

EPIC® Connectors- Rectangular, Circular and Pin & Sleeve



EPIC® Connectors- Rectangular, Circular and Pin & Sleeve

EPIC® Rectangular Connectors

EPIC® Rectangular Overview 229

Overview of Housings, Plugs & Receptacles, and Selection Charts

EPIC® HA Series	# of contacts: 3, 4, 10, 16, 32, 48, 64 (+PE)	235
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EPIC® HQ Series	# of contacts: 5 (+PE)	256
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EPIC® STA Series	# of contacts: 6, 14, 20 (+PE)	260
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EPIC® HBE Series	# of contacts: 6, 10, 16, 24, 32, 48 (+PE)	271
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EPIC® HEE Series	# of contacts: 10, 18, 32, 46, 64, 92 (+PE)	319
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EPIC® HBS Series	# of contacts: 6, 12 (+PE)	339
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EPIC® HBVE Series	# of contacts: 3, 6, 10 (+PE)	347
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EPIC® HD Series	# of contacts: 7, 8, 15, 24, 25, 40, 50, 64, 80, 128 (+PE)	362
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EPIC® HDD Series	# of contacts: 24, 42, 72, 108, 144, 216 (+PE)	395
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EPIC® MC Series	# of contacts: 2 - 280	415
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Mixed Power Series	# of contacts: 4 Pwr x 0 Signal, 4 Pwr x 2 Signal, 4 Pwr x 8 Signal	450
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Circular Connectors Overview

Zylin R2.5 Series	# of contacts: 8+1, 9, 12, 16, 17	465
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Zylin R3.0 Series	# of contacts: 21, 26	472
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Glands		477
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Seal between cable and connector

Dust Covers		480
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Protective covers to protect unmated connectors

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Helps prevent incorrect connections when housings are mounted next to one another

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Shielding for electromagnetic interference

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Convenient way to pass finished assemblies through a connector housing

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Mount connectors on Din Rail

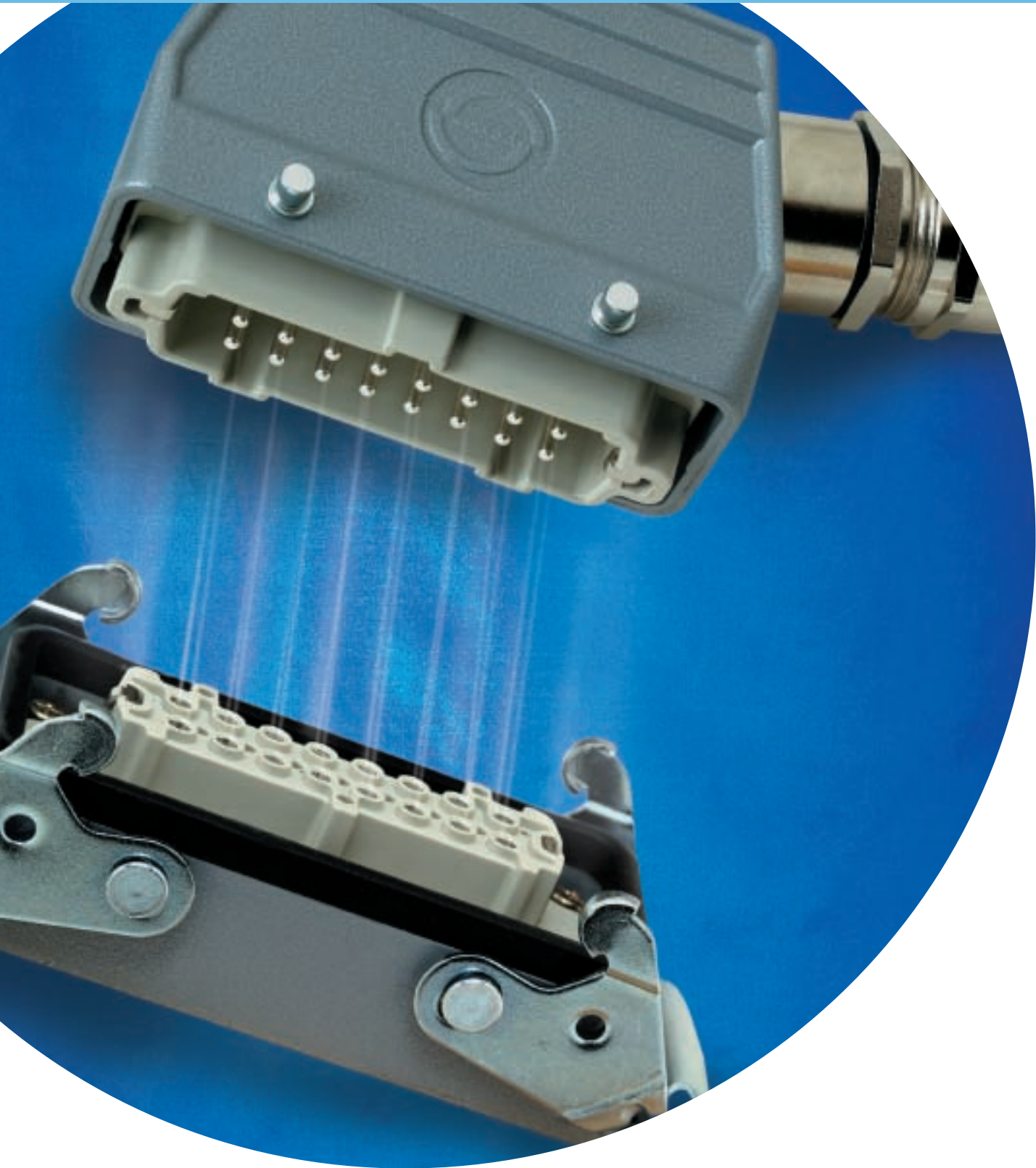
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EPIC® Connectors- Rectangular, Circular and Pin & Sleeve

EPIC® Pin & Sleeve Connectors

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EPIC® CONNECTORS



EPIC® CONNECTORS

Rectangular Industrial Connectors: Technical Data Overview

Lapp offers 11 series of rectangular connectors. The rectangular overview section will help determine the series which best suits your application. An explanation of rectangular connectors is in the Technical Data section.

Once the appropriate series has been determined turn to the referenced section in the catalog. The EPIC® Rectangular Series is set up in the following structure.

- The inserts (plugs and receptacles) are shown by number of contacts. All available terminations are shown.
- Please remember when choosing crimp terminated plugs & receptacles, the contacts have to be ordered separately. The appropriate contacts and tools immediately follow the plugs and receptacles.
- Immediately following each group of plugs and receptacles are the housings (hoods and bases) which fit these connectors. The hoods and bases are grouped by number and position of levers to ensure compatibility. Metric parts and all diagrams are shown in the main HA & HBE Housing Sections.

EPIC® RECTANGULAR HOUSINGS

Specifications: DIN 43652

Temperature Range: -40°C to +125°C

Protection class: NEMA 4, 4X; IP65

Material: NEMA 4: HBE 6 - 48, HA 10 - 64: aluminum alloy, powder coated (grey), locking levers and bolts made of zinc plated steel. HA 3/4: Die cast zinc, powder coated or thermoplastic flame retardant material rated UL 94 V-0 (Grey or Black Plastic).
NEMA 4X: HBE 6 - 48 EP, HA 10 - 64 EP: Environmentally Protected: aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.

EPIC® HBE SERIES

STANDARD GREY (NEMA 4, IP 65)

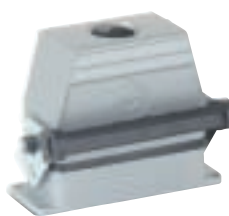
PG



NPT



METRIC



EP BLACK COATING (NEMA 4X)

PG



NPT



METRIC



EPIC® HA SERIES

PG

DIE CAST ZINC
(NEMA 4, IP65)



NPT

PLASTIC
(NEMA 4, IP 65)



METRIC

DIE CAST ZINC
(NEMA 4, IP65)



STANDARD GREY (NEMA 4, IP 65)

PG



NPT



METRIC



EP BLACK COATING (NEMA 4X)

PG



NPT



METRIC



** Please note that all the rectangular plugs and receptacles either fit into a HBE or HA Series housing.

EPIC® RECTANGULAR PLUGS & RECEPTACLES

EPIC® HA



Page #
235

of Contacts: 3, 4, 10, 16, 32, 48, 64 (+PE)
Rated Voltage: 600V
Rated Current: 10A (HA 3/4), 14A (HA 10 - 48)
Termination: Screw
Wire Size: AWG 20 - 14 (0.5 - 2.5 mm²)

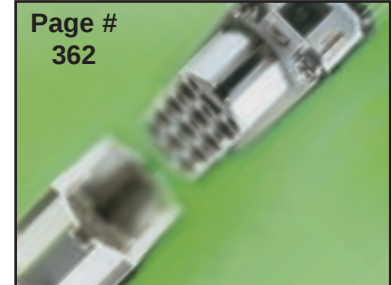
EPIC® HBE



Page #
271

of Contacts: 6, 10, 16, 24, 32, 48 (+PE)
Rated Voltage: 600V
Rated Current: 16A
Termination: Screw, Crimp, Cage clamp
Wire Size: AWG 20 - 14 (0.5 - 2.5 mm²)
AWG 20 - 12 (0.5 - 4 mm²)-Crimp

EPIC® HD



Page #
362

of Contacts: 7, 8, 15, 25, 40, 50, 64, 80, 128 (+PE)
Rated Voltage: 600V
Rated Current: 10A
Termination: Crimp
Wire Size: AWG 22 - 14 (0.14 - 2.5 mm²)

EPIC® STA



Page #
260

of Contacts: 6, 14, 20, 40 (+PE)
Rated Voltage: 48V
Rated Current: 10A
Termination: Screw, Solder
Wire Size: AWG 20 - 16 (0.5 - 1.5 mm²)

EPIC® HBVE



Page #
347

of Contacts: 3, 6, 10 (+PE)
Rated Voltage: 600V
Rated Current: 16A
Termination: Screw
Wire Size: AWG 20 - 14 (0.5 - 2.5 mm²)

EPIC® MC



Page #
415

of Contacts: 2 - 280 (+PE)
Rated Voltage: 63 - 1000V
Rated Current: 10 - 82A
Termination: Crimp/Coax/Fiber Optic/Screw
Wire Size: AWG 28 - 6 (0.06 - 10 mm²)

EPIC® HDD



Page #
395

of Contacts: 24, 42, 72, 108, 144, 216 (+PE)
Rated Voltage: 600V
Rated Current: 8.5A
Termination: Crimp
Wire Size: AWG 22 - 14 (0.14 - 2.5 mm²)

EPIC® HBS



Page #
339

of Contacts: 6, 12 (+PE)
Rated Voltage: 600V
Rated Current: 35A
Termination: Screw
Wire Size: AWG 20 - 10 (0.5 - 6.0 mm²)

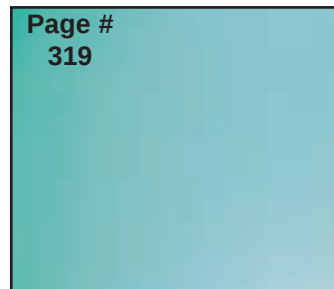
MIXED POWER



Page #
450

of Contacts: 4 Pwr, 4 Pwr & 2 Sgl, 4 Pwr & 8 Sgl
Rated Voltage: 600V
Rated Current: 16 - 80A
Termination: Screw
Wire Size: up to AWG 6 (Pwr) up to AWG 14 (Sgl)

EPIC® HEE



Page #
319

of Contacts: 10, 18, 32, 46, 64, 92 (+PE)
Rated Voltage: 600V
Rated Current: 16A
Termination: Crimp
Wire Size: AWG 20 - 12 (0.5 - 4.0 mm²)

EPIC® HQ



Page #
256

of Contacts: 5 (+PE)
Rated Voltage: 600V
Rated Current: 16A
Termination: Crimp
Wire Size: AWG 20 - 14 (0.5 - 2.5 mm²)

EPIC® CONNECTORS

Rectangular Industrial Connectors: Quick Select Chart



	# of Contacts + PE	HA	HQ	STA	HBE	HEE	HBS	HBVE	HD	HDD	MC	MP
	3	X						X				
	4	X										
	5		X									
	6			X	X		X	X				
	7								X			
	8								X			
	10	X			X	X		X				
	12						X					
	14			X								
	15								X			
	16	X			X							
	18					X						
	20			X								
	24				X					X		
	25								X			
	32	X			X	X						
	40			X					X			
	42									X		
	46					X						
	48	X			X							
	50								X			
	64	X				X			X			
	72									X		
	80								X			
	92					X						
	108									X		
	128								X			
	144									X		
	216									X		
	2-280										X	
	4 Pwr/ 0 Signal											X
	4 Pwr/ Signal											X
	4 Pwr/ 8 Signal											X
UL Rated Voltage	48V			X								
	600V	X	X		X	X	X	X	X	X		
	63-1000V										X	
	380- 600V											X
UL Rated Current	7A								X (TB)			
	8.5A									X		
	10A	X (3/4)		X					X			
	14 A	X										
	16A		X		X	X		X				
	35A						X					
	10 - 82A										X	
Termination Type	16 - 80A											X
	Cage Clamp				X						X	
	Crimp		X		X	X			X	X	X	
	Screw	X		X	X		X	X			X	X
Wire Size (AWG)	Solder			X								
	Terminal Block				X				X			
Wire Size (AWG)	20 - 16			X					X (TB)			
	22 - 14								X (Crimp)	X		
	20 - 14	X	X		X			X				
	up to 14											X (Signal)
	20 - 12				X (Crimp)	X						
	20 - 10						X					
	30 - 6										X	
	up to 6											X (Power)
Page #		235	256	260	271	319	339	347	362	395	415	450

EPIC® CONNECTORS

Rectangular Industrial Connectors: Quick Select Chart



TERMINATE YOUR OLFLEX® CABLE WITH THE RIGHT CONNECTOR

Wire Gauge AWG	# Conductors w/ Ground	HA	STA 10A	HBE 16 A	HEE 16A	HBS 35 A	HBVE 16A	HD 10A	HDD 8.5 A	HQ 16 A	MC	MP
6	3										MC2	Power
	4										MC2	Power
	5											Power
8	3										MC2/MC3	Power
	4										MC2/MC3	Power
	5										MC3 x 2	Power
10	3					HBS6					MC2/MC3	Power
	4					HBS6					MC2/MC3	Power
	5					HBS6					MC3 x 2	Power
	7					HBS6					MC3 x 2	Power
12	2			HBE6		HBS6					MC3	
	3			HBE6		HBS6					MC3	
	4			HBE6		HBS6					MC3/MC4/MC5	
	5			HBE6		HBS6					MC4/MC5	
	7			HBE6		HBS6					MC3 x 2	
14	2	HA3		HBE6		HBS6	HBVE3	HD7		HQ5	MC3	Signal
	3	HA3		HBE6		HBS6	HBVE3	HD7		HQ5	MC3	Signal
	4	HA3		HBE6		HBS6	HBVE3	HD7		HQ5	MC3/MC4/MC5	Signal
	5	HA4		HBE6		HBS6	HBVE6	HD7		HQ5	MC4/MC5	Signal
	7	HA10		HBE6	HEE10	HBS6	HBVE6	HD7			MC10	Signal
	9	HA10		HBE10	HEE10	HBS12	HBVE10	HD8			MC10	Signal
	12	HA16		HBE16	HEE18	HBS12		HD15			MC10 x 2	
	18	HA32		HBE24	HEE18			HD24			MC10 x 2	
	25	HA32		HBE24	HEE32			HD24	HDD24		MC10 x 3	
16	2	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC3	Signal
	3	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC3	Signal
	4	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC3/MC4/MC5	Signal
	5	HA4	STA6	HBE6		HBS6	HBVE6	HD7		HQ5	MC4/MC5	Signal
	7	HA10	STA6	HBE6	HEE10	HBS6	HBVE6	HD7			MC10	Signal
	9	HA10	STA14	HBE10	HEE10	HBS12	HBVE10	HD8			MC10	Signal
	12	HA16	STA14	HBE16	HEE18	HBS12		HD15			MC10 x 2	
	18	HA32	STA20	HBE24	HEE18			HD24	HDD24		MC10 x 2	
	25	HA32	STA40	HBE24	HEE32			HD24	HDD24		MC10 x 3	
	34	HA48	STA40	HBE48	HEE46			HD40	HDD42		MC10 x 4	
	41	HA48	STA40	HBE48	HEE46			HD40	HDD42		MC10 x 4	
	50	HA64			HEE64			HD50	HDD72		MC10 x 5	
	60	HA64			HEE64			HD64	HDD72		MC10 x 6	
	61	HA64			HEE64			HD64	HDD72		MC10 x 6	
18	2	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC4	Signal
	3	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC4	Signal
	4	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC4/MC5	Signal
	5	HA4	STA6	HBE6		HBS6	HBVE6	HD7		HQ5	MC4/MC5	Signal
	7	HA10	STA6	HBE6	HEE10	HBS6	HBVE6	HD7			MC10	Signal
	9	HA10	STA14	HBE10	HEE10	HBS12	HBVE10	HD8			MC10	Signal
	12	HA16	STA14	HBE16	HEE18	HBS12		HD15			MC10 x 2	
	18	HA32	STA20	HBE24	HEE18			HD24	HDD24		MC10 x 2	
	25	HA32	STA40	HBE24	HEE32			HD24	HDD24		MC10 x 3	
	34	HA48	STA40	HBE48	HEE46			HD40	HDD42		MC10 x 4	
	41	HA48	STA40	HBE48	HEE46			HD40	HDD42		MC10 x 4	
	50	HA64			HEE64			HD50	HDD72		MC10 x 5	
	61	HA64			HEE64			HD64	HDD72		MC10 x 6	
20	2	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC4	Signal
	3	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC4	Signal
	4	HA3	STA6	HBE6		HBS6	HBVE3	HD7		HQ5	MC4/MC5	Signal
	5	HA4	STA6	HBE6		HBS6	HBVE6	HD7		HQ5	MC4/MC5	Signal
	7	HA10	STA6	HBE6	HEE10	HBS6	HBVE6	HD7			MC10	Signal
	9	HA10	STA14	HBE10	HEE10	HBS12	HBVE10	HD8			MC10	Signal
	10	HA10	STA14	HBE10	HEE10	HBS12	HBVE10	HD15			MC10	
	12	HA16	STA14	HBE16	HEE18	HBS12		HD15			MC20	
	18	HA32	STA20	HBE24	HEE18			HD24	HDD24		MC20	
	24	HA32	STA40	HBE24	HEE32			HD24	HDD24		MC20 x 2	
	25	HA32	STA40	HBE24	HEE32			HD24	HDD24		MC20 x 2	
	34	HA48	STA40	HBE48	HEE46			HD40	HDD42		MC20 x 2	

Please note that the amperage for all series listed in black can be found at the top of the column.

4 Amps, 10 Amps, 14 Amps, 16 Amps, 20 Amps, 25 Amps, 50 Amps, 80 Amps, 83 Amps

- Notes: 1) The above chart shows the relationship between cable wire gauge and conductor count with connector contact count. Final connector selection and application suitability will depend on voltage and current limits of the cable and connector
- 2) The MC Series modular connector offers a wide variety of mix-and-match combinations. The combinations shown in the chart are offered as suggestions based on providing a solution in the smallest housing size.

EPIC® CONNECTORS

Rectangular Industrial Connectors: Quick Select Chart



TERMINATE YOUR OLFLEX® CABLE WITH THE RIGHT CONNECTOR

Wire Gauge AWG	# Conductors w/ Ground	HA	STA 10 A	HBE 16 A	HEE 16 A	HBS 35 A	HBVE 16 A	HD 10A	HDD 8.5 A	HQ 16 A	MC	MP
22 w/ or w/o gnd	2							HD7				
	3							HD7				
	4							HD7				
	5							HD7			MC10	
	7							HD7			MC10	
	8							HD7			MC10	
	10							HD15			MC10	
	12							HD15			MC20	
	14							HD15			MC20	
	15							HD15			MC20	
	16							HD15			MC20	
	18							HD24	HDD24		MC20	
	20							HD24	HDD24		MC20	
	21							HD24	HDD24		MC20	
	25							HD24	HDD24		MC20 x 2	
	28							HD40	HDD42		MC20 x 2	
	30							HD40	HDD42		MC20 x 2	
	32							HD40	HDD42		MC20 x 2	
	36							HD40	HDD42		MC20 x 2	
	40							HD40	HDD42		MC20 x 2	
	44							HD50	HDD72		MC20 x 3	
	50							HD50	HDD72		MC20 x 3	
	61							HD64	HDD72		MC20 x 3	
24, 26 w/ or w/o gnd	5										MC10	
	7										MC10	
	8										MC10	
	10										MC10	
	12										MC20	
	14										MC20	
	15										MC20	
	16										MC20	
	18										MC20	
	20										MC20	
	21										MC20	
	25										MC20 x 2	
	28										MC20 x 2	
	30										MC20 x 2	
	32										MC20 x 2	
	36										MC20 x 2	
	40										MC20 x 2	
	44										MC20 x 3	
	50										MC20 x 3	
	61										MC20 x 3	
28 w/ or w/o gnd	10										MC20	
	12										MC20	
	14										MC20	
	15										MC20	
	16										MC20	
	18										MC20	
	20										MC20	
	21										MC20	
	25										MC20 x 2	
	28										MC20 x 2	
	30										MC20 x 2	
	32										MC20 x 2	
	36										MC20 x 2	
	40										MC20 x 2	
	44										MC20 x 3	
	50										MC20 x 3	
	61										MC20 x 3	

Please note that the amperage for all series listed in black can be found at the top of the column.

4 Amps, 10 Amps, 14 Amps, 16 Amps, 20 Amps, 25 Amps, 50 Amps, 80 Amps, 83 Amps

Notes: 1) The above chart shows the relationship between cable wire gauge and conductor count with connector contact count.

Final connector selection and application suitability will depend on voltage and current limits of the cable and connector

2) The MC Series modular connector offers a wide variety of mix-and-match combinations. The combinations shown in the chart are offered as suggestions based on providing a solution in the smallest housing size.

PLUGS & RECEPTACLES WITH THEIR MATING HA HOUSINGS

HOUSINGS	PLUGS & RECEPTACLES			
	HA	HQ	STA	HD
HA 3/4	HA 3/4	HQ 5	STA 6	HD 7/8
HA 10	HA 10	---	STA 14	HD 15
HA 16	HA 16	---	STA 20	HD 25
HA 32	HA 32	---	STA 40	HD 50
HA 48	HA 48	---	---	---
HA 64	HA 64	---	---	---

PLUGS & RECEPTACLES WITH THEIR MATING HBE HOUSINGS

HOUSINGS	PLUGS & RECEPTACLES							
	HBE	HEE	HBS	HBVE	HD	HDD	MC	Mixed Pwr
HBE 6	HBE 6	HEE 10	---	---	---	HDD 24	2 Modules	---
HBE 10	HBE 10	HEE 18	---	HBVE 3	---	HDD 42	3 Modules	---
HBE 16	HBE 16	HEE 32	HBS 6	HBVE 6	HD 40	HDD 72	5 Modules	4 Pwr/ 0 Sgl 4 Pwr/ 2 Sgl
HBE 24	HBE 24	HEE 46	---	HBVE 10	HD 64	HDD 108	7 Modules	4 Pwr/8 Sgl
HBE 32	HBE 32	HEE 64	HBS 12	---	HD 80	HDD 144	10 Modules	---
HBE 48	HBE 48	HEE 92	---	---	HD 128	HDD 216	14 Modules	---

APPROVALS

EPIC® rectangular connectors shall comply with all applicable requirements of Underwriters Laboratory (UL) Standards 1977 and 498, VDE Standard 0110 for creepage and clearance distances and VDE Standard 0627 for the connector design. The HD and HDD series is developed according to DIN Standard 43652.

The recognized UL file number and Canadian Standards Associations (CSA) for EPIC® CONTACT® connectors are:

UL recognized file #E75770

CSA certified file #LR53004-1

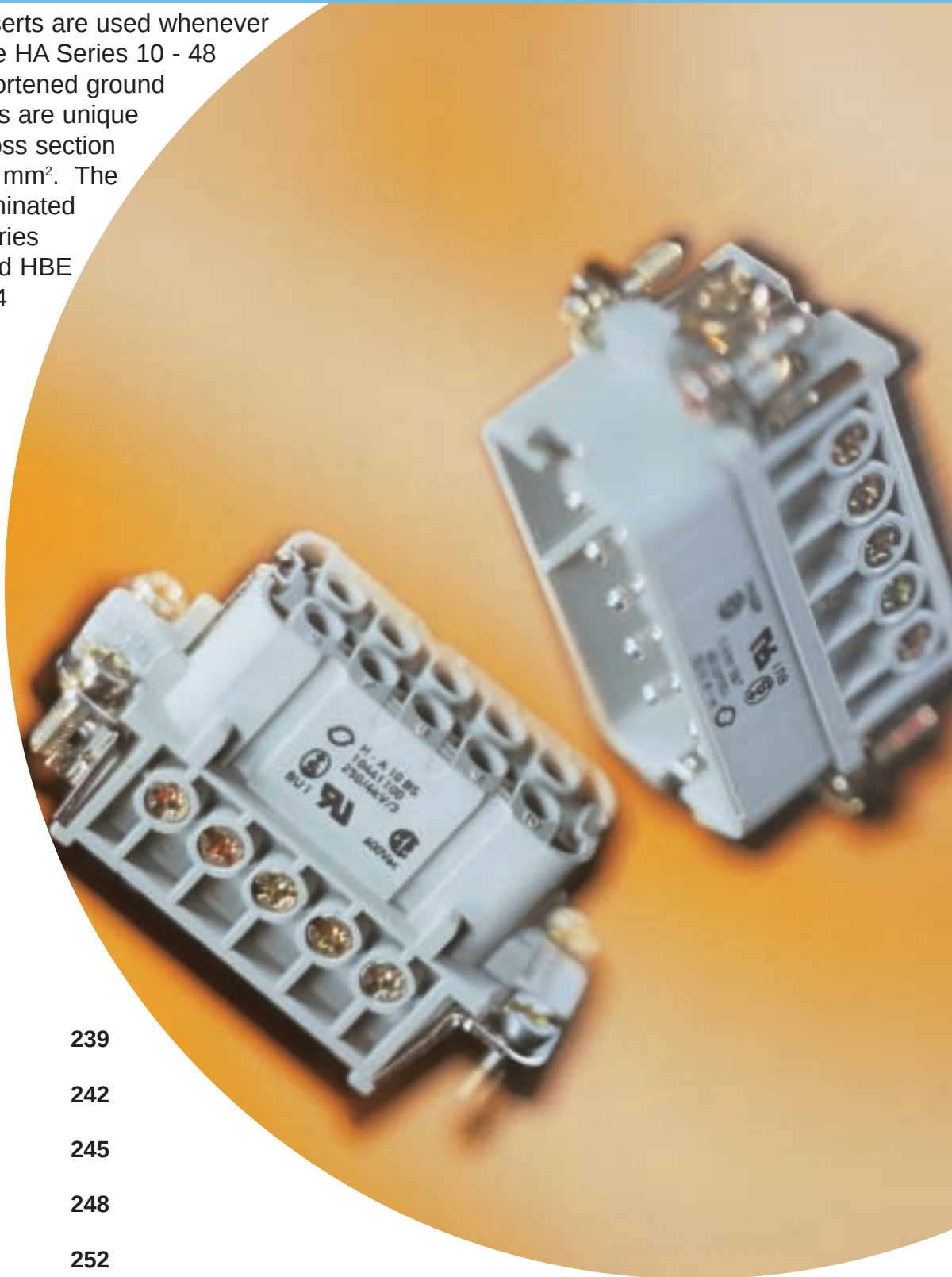
EPIC® connectors meet IP 65, NEMA 4, 4X and NEMA 12 standards only when in the mated condition.

EPIC® CONNECTORS

HA Series

The small HA 3/4 inserts are used whenever space is limited. The HA Series 10 - 48 inserts now have shortened ground straps. These inserts are unique because the wire cross section can still be up to 2.5 mm². The HA 3 - 48 screw terminated inserts fit into HA Series Housings. A modified HBE 48 Housing can fit 64 contacts.

The HA Series Housings are compact in shape and utilize fixed levers.



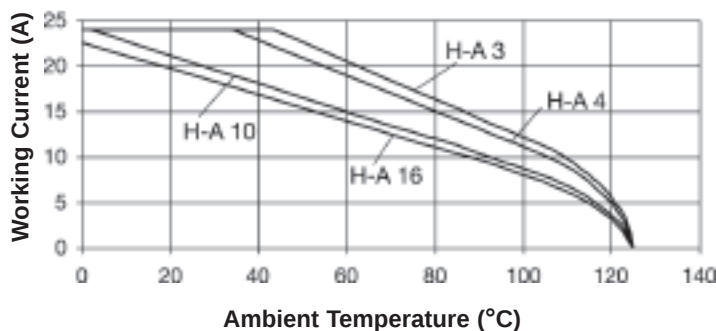
HA 3/4 Series	239
HA 10 Series	242
HA 16 Series	245
HA 32 Series	248
HA 48 Series	252
HA 64 Series	254

TECHNICAL DATA

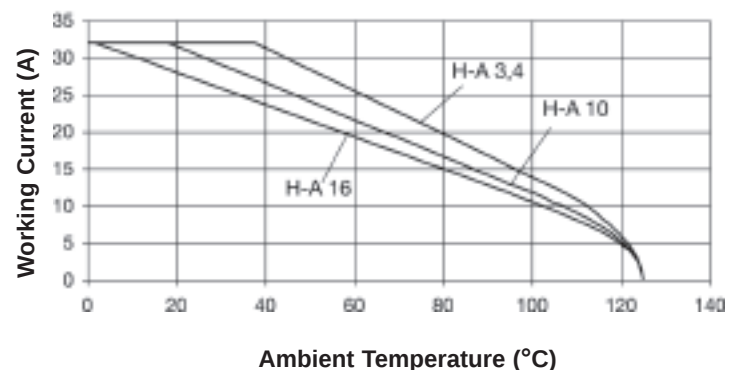
Number of Contacts:	3, 4, 10, 16, 32, 48, 64 (+PE)	Screw Termination:	<u>HA 3/4:</u> 0.5 - 2.5 mm ² (AWG: 20 - 14) for solid wire or stranded wire with short wire end ferrule and without insulation
Rated Voltage:	VDE: 400V EPIC® HA 3/4 250V EPIC® HA 10 - 64 UL: 600V EPIC® HA 3 - 64 CSA: 600V EPIC® HA 3 - 64 SEV: 250V EPIC® HA 3 - 64		<u>HA 10 - 64:</u> • 0.5 - 1.5 mm ² (AWG: 20 - 14): for solid wire or stranded wire with wire end ferrule and with insulation. • 0.75 - 2.5 mm ² (18 - 14 AWG): for stranded wire without wire end ferrule (requires insert with wire protection)
Rated Current:	VDE: 10A EPIC® HA 3/4 16A EPIC® HA 10 - 64 UL: 10A EPIC® HA 3/4 14A EPIC® HA 10 - 64 CSA: 10A EPIC® HA 3/4 16A EPIC® HA 10 - 64 SEV: 16A EPIC® HA 3 - 64	Temperature Range:	-40°C - 125°C
Pollution Level:	3	Contacts:	Copper alloy, silver plated
Dimensioning Transient:	4 kV	Contact Resistance:	1.5 - 4 mOhm
		Test Voltage:	4 kv
		Mating Cycles:	100 (higher mating cycles depending on the application)

HA INSERTS: DERATING CURVES

1.5 mm² (16 AWG)



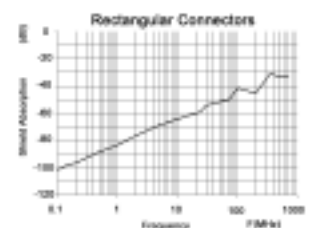
2.5mm² (14 AWG)



EMC PROTECTION



	PG/NPT	Metric
HA 10 Panel Mount Base	70.7000	79.7000
HA 10 Surface Mount & Cable Coupler Hood	70.7020	79.7020
HA 16 Panel Mount Base	70.7001	79.7001
HA 16 Surface Mount & Cable Coupler Hood	70.7021	79.7021



EMC Shielding is retrofittable.

EPIC® CONNECTORS

HA Housings

Housings:

Specifications:

DIN 43652

Temperature Range:

-40°C to +125°C

Protection class:

IP 65: HA 3/4, 10, 16, 32, 48, 64

Material:

HA 3/4: Die cast zinc, powder coated/ Thermoplastic flame retardant material rated UL 94 V-0
HA 10 - 64: aluminum alloy, powder coated

STANDARD GREY COATING (NEMA 4)

PG



NPT



METRIC



DIN 50262

HA 3/4: Die cast zinc, powder coated (Grey)

Thermoplastic flame retardant material rated UL 94 V-0 (Grey or Black Plastic).

PG



NPT



METRIC



DIN 50262

HA 10 - 48: Aluminum alloy, powder coated (grey), locking levers and bolts made of zinc plated steel.
For industrial applications in demanding environments.

BLACK COATING (Environmentally Protected) NEMA 4X

PG



NPT



METRIC



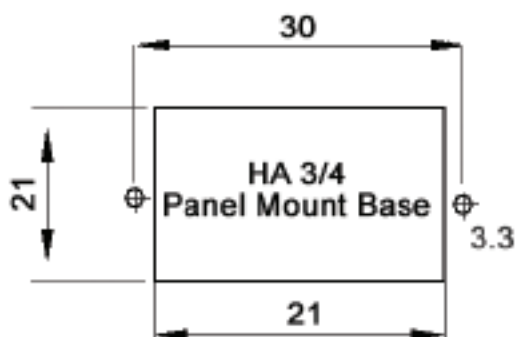
DIN 50262

EP: Environmentally Protected:

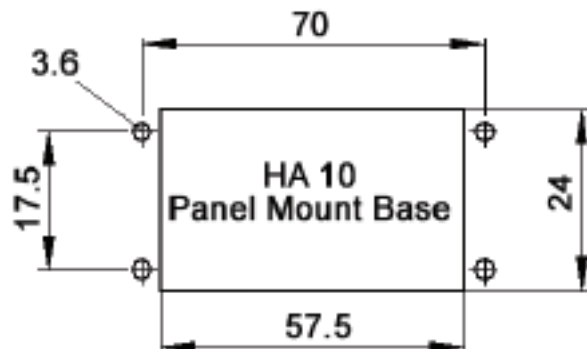
HA 10 - 48: Aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.
For industrial applications in extremely demanding environments with aggressive atmospheres.

EPIC® CONNECTORS

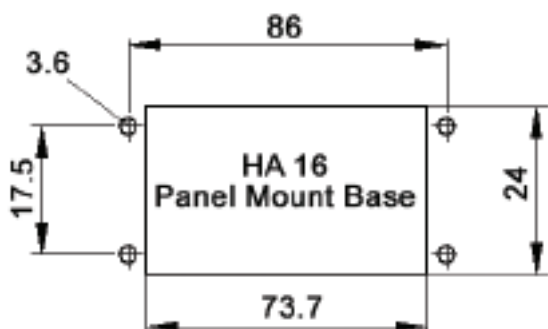
HA Panel Cut-Outs For Panel Mount Bases



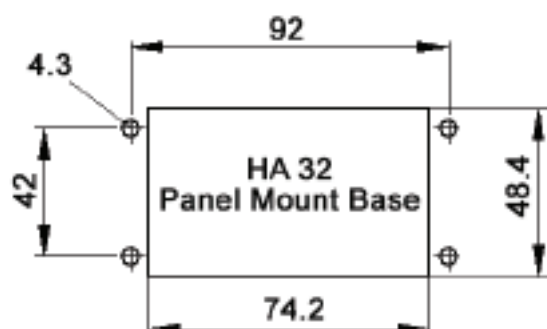
Fits the following plugs & receptacles:
HA 3, HA 4, HQ 5, STA 6, HD 7, and HD 8 Series.



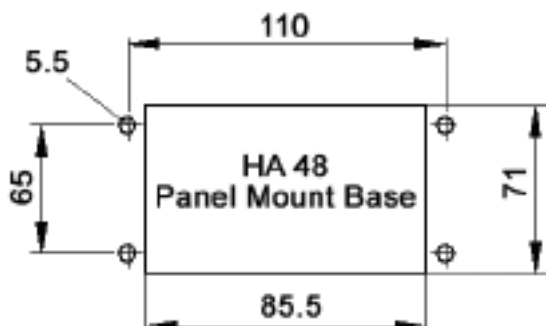
Fits the following plugs & receptacles:
HA 10, STA 14, and HD 15 Series.



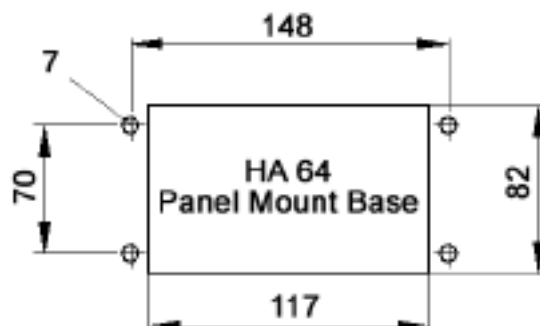
Fits the following plugs & receptacles:
HA 16, STA 20 and HD 25 Series.



Fits the following plugs & receptacles:
HA 32, STA 40 and HD 50 Series.



Fits the following plugs & receptacles:
HA 48 Series.



Fits the following plugs & receptacles:
HA 64 Series.

All dimensions are in mm.

EPIC® CONNECTORS

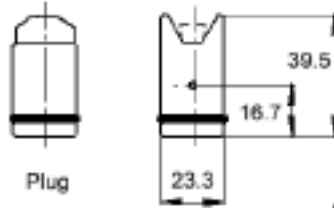
HA 3&4 Plugs & Receptacles

HA 3&4 Housings: Single Lever on Base

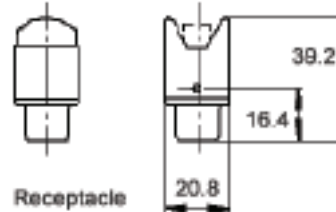


SCREW TERMINATED INSERTS

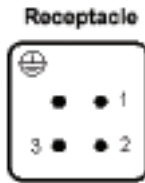
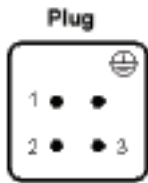
HA 3



All dimensions are in mm.



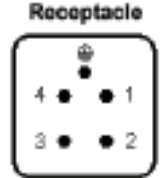
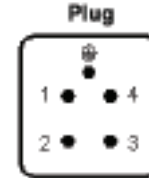
HA 4



	Plug:	Receptacle:
HA 3	10.4200	10.4210
HA 4	10.4310	10.4320

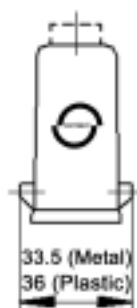
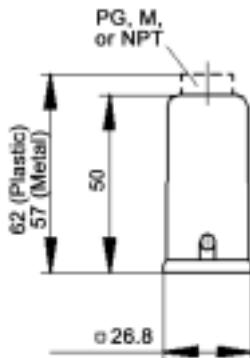


Coding Pin: 10.4513

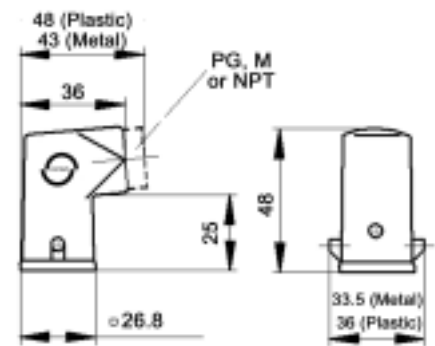


HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

TOP ENTRY HOODS

Material	Size of Entry			Without Cable Gland		With Cable Gland	
	PG	NPT	Metric	NPT Part #	Metric Part #	PG Part #	Metric Part #
Zinc Die Cast	11	1/2"	20	10.5121 NP	-	10.4265	19.4265
Black Plastic	11	1/2"	20	10.4255 NP	19.4255	10.4267	-
Grey Plastic	11	1/2"	20	10.4260 NP	19.4260	10.4264	-

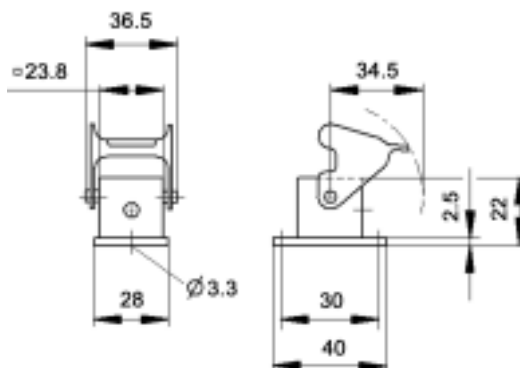
EPIC® CONNECTORS

HA 3&4 Housings: Single Lever on Base

SIDE ENTRY HOODS

Material	Size of Entry			Without Cable Gland		With Cable Gland	
	PG	NPT	Metric	NPT Part #	Metric Part #	PG Part #	Metric Part #
Zinc Die Cast	11	1/2"	20	10.5123 NP	-	10.4275	19.4275
Black Plastic	11	1/2"	20	10.4273 NP	19.4273	10.6206	-
Grey Plastic	11	1/2"	20	10.4270 NP	19.4720	10.4271	-

PANEL MOUNT BASES

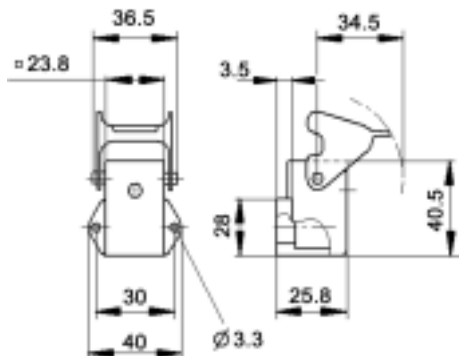


Grey Metal
10.4225

Black Plastic	Grey Plastic
10.4222	10.4220

All dimensions are in mm.

ANGLED PANEL MOUNT BASES



All dimensions are in mm.



Grey Metal	Black Plastic	Grey Plastic
10.4235	10.4231	10.4230

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



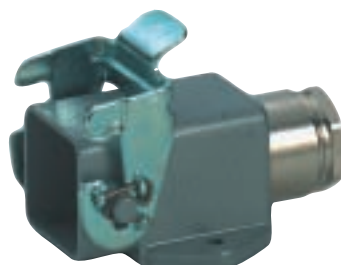
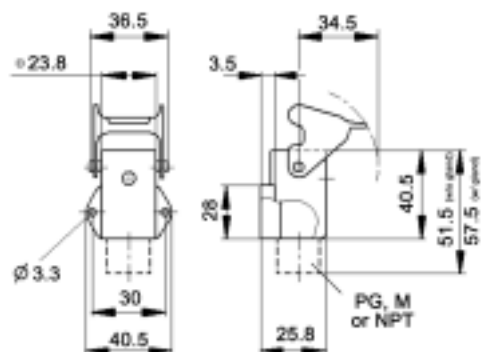
Material:	Thermoplastic Resin or Aluminum		Temperature:	-40°C to 125°C	
Covers for Panel Mount or Surface Mount Bases/ and Cable Coupler Hoods			Part # with string	Part # without string	
Dust Cover for HA 3/4 Housings with Male Insert			10.4304	10.4300	
Metal Dust Cover for HA 3/4 Housings with Male Insert			10.5130	-	
Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)			10.4301	10.4303	
Metal Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)			10.5131	-	

EPIC® CONNECTORS

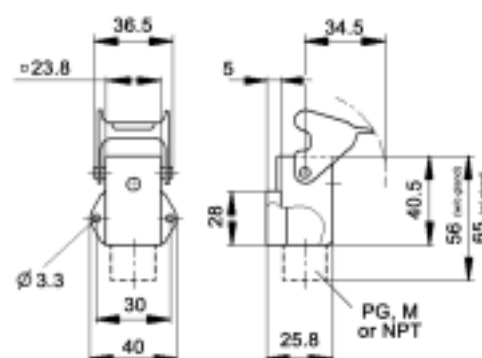
HA 3&4 Housings: Single Lever on Base

SURFACE MOUNT BASES

METAL



PLASTIC

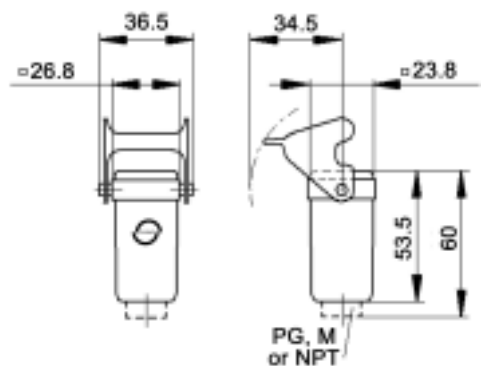


All dimensions are in mm.

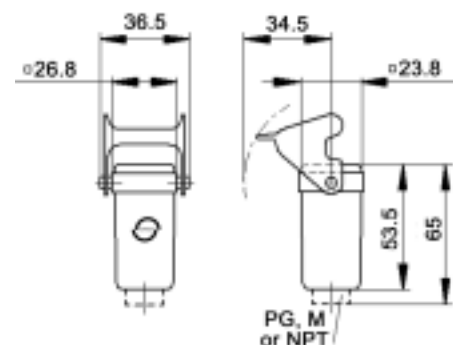
Material	Size of Entry			Without Cable Gland		With Cable Gland	
	PG	NPT	Metric	NPT Part #	Metric Part #	PG Part #	Metric Part #
Zinc Die Cast	11	1/2"	20	10.5127 NP	-	10.4245	19.4245
Black Plastic	11	1/2"	20	10.5117 NP	19.5118	10.4247	-
Grey Plastic	11	1/2"	20	10.4240 NP	19.4241	10.4242	-

CABLE COUPLER HOODS

METAL



PLASTIC



All dimensions are in mm.

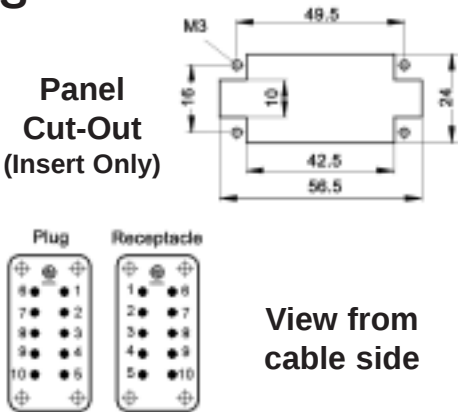
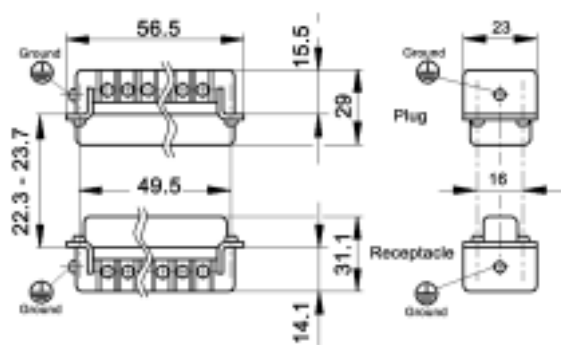
Material	Size of Entry			Without Cable Gland		With Cable Gland	
	PG	NPT	Metric	NPT Part #	Metric Part #	PG Part #	Metric Part #
Zinc Die Cast	11	1/2"	20	10.5129 NP	19.5129	10.4295	19.4295
Black Plastic	11	1/2"	20	10.4292 NP	19.4292	10.6203	-
Grey Plastic	11	1/2"	20	10.4290 NP	19.4290	10.4291	-

EPIC® CONNECTORS

HA 10 Plugs & Receptacles
HA 10 Housings: Single Lever on Base



SCREW TERMINATED INSERTS



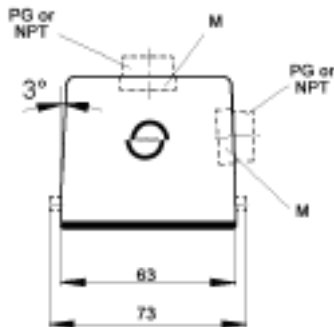
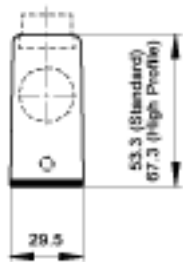
All dimensions are in mm.

These inserts fit in the HA 10 Series Housings.

	Plug:	Receptacle:
HA 10 with Wire Protection	10.4401	10.4411
HA 10 without Wire Protection	10.4400	10.4410

HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

STANDARD PROFILE

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	13.5	1/2"	20	10.446010	10.4460	NP 19.4460	-	-	-
	16	1/2"	25	10.446110	10.4461	NP 19.4461	70.4610	70.4610 NP	79.4610
Side Entry	16	1/2"	20	10.445010	10.4450	NP 19.4450	70.4630	70.4630 NP	79.4630
	21	3/4"	25	10.445510	10.4455	NP 19.4455	-	-	-

HIGH PROFILE

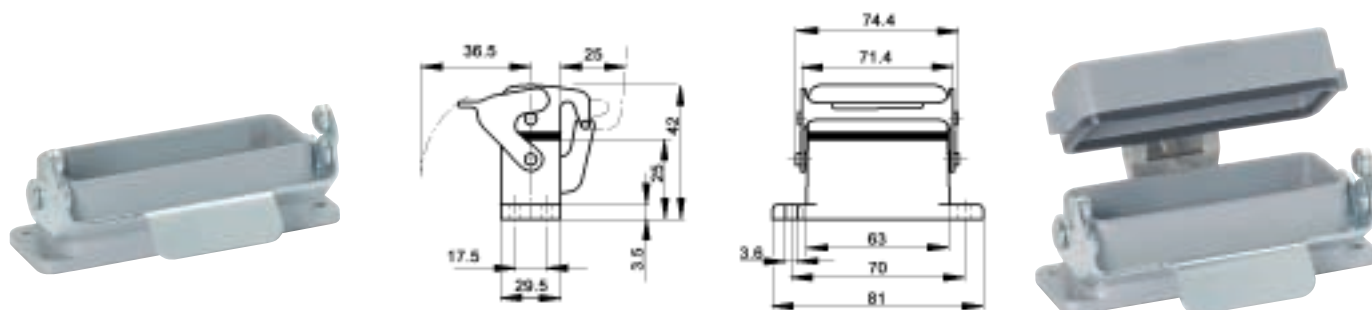
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	16	1/2"	20	70.4602	70.4602 NP	79.4602	70.4612	70.4612 NP	79.4612
	21	3/4"	25	70.4604	70.4604 NP	79.4604	70.4614	70.4614 NP	79.4614
Side Entry	16	1/2"	20	70.4622	70.4622 NP	79.4622	70.4632	70.4632 NP	79.4632
	21	3/4"	25	70.4624	70.4624 NP	79.4624	70.4634	70.4634 NP	79.4634

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HA 10 Housings: Single Lever on Base

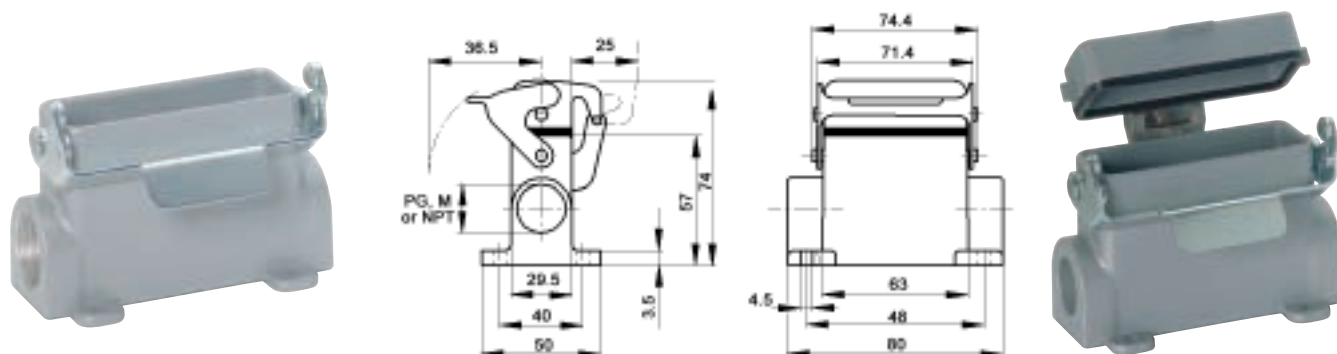
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.4420	70.4425
Panel Mount with Dust Cover	70.4440	70.4445

SURFACE MOUNT BASES



All dimensions are in mm.

WITHOUT DUST COVER

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
1 Entry	16	1/2"	20	10.4481	10.4481 NP	19.4481	70.4472	70.4472 NP	79.4472
	21	3/4"	25	10.4480	10.4480 NP	19.4480	70.4474	70.4474 NP	79.4474
2 Entries	16	1/2"	20	10.4501	10.4501 NP	19.4501	70.4482	70.4482 NP	79.4482
	21	3/4"	25	10.4500	10.4500 NP	19.4500	70.4484	70.4484 NP	79.4484

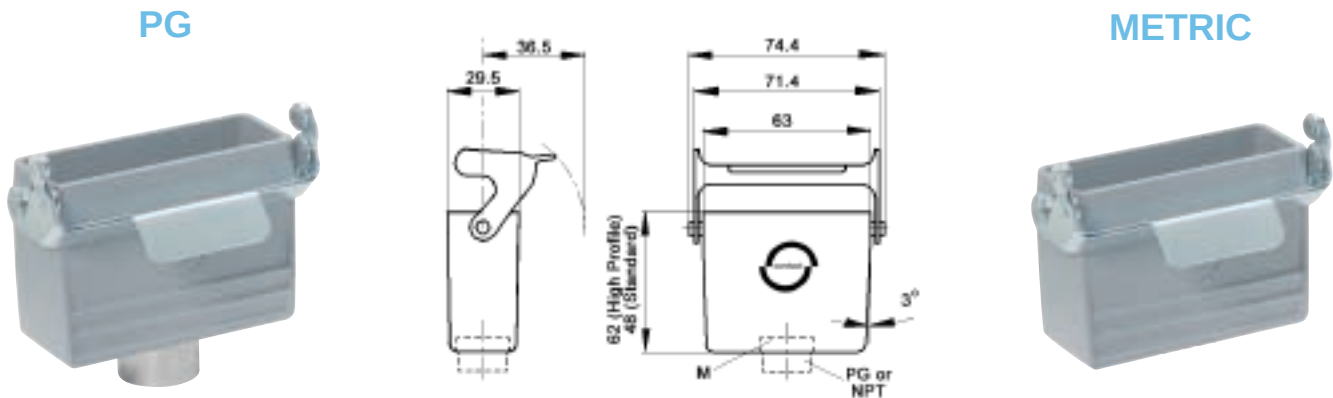
WITH DUST COVER

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
1 Entry	16	1/2"	20	70.4552	70.4552 NP	79.4552	70.4572	70.4572 NP	79.4572
	21	3/4"	25	70.4554	70.4554 NP	79.4554	70.4574	70.4574 NP	79.4574
2 Entries	16	1/2"	20	70.4562	70.4562 NP	79.4562	70.4582	70.4582 NP	79.4582
	21	3/4"	25	70.4564	70.4564 NP	79.4564	70.4584	70.4584 NP	79.4584

EPIC® CONNECTORS

HA 10 Housings: Single Lever on Base

CABLE COUPLER HOODS

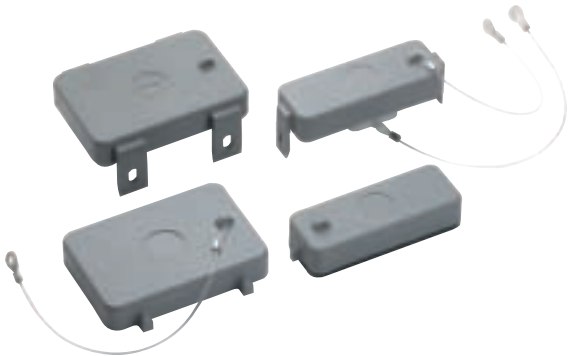


All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard	13.5	1/2"	20	10.4390	10.4390 NP	19.4390	-	-	-
	16	1/2"	25	70.4500	70.4500 NP	79.4500	70.4510	70.4510 NP	79.4510
High	21	3/4"	25	70.4504	70.4504 NP	79.4504	70.4514	70.4514 NP	79.4514

Metric hoods do not come with a neck.

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin Temperature: -40°C to 125°C

Description	Part # with string	Part # without string
Dust Cover for HA 10 Panel Mount or Surface Mount Base/ Cable Coupler hoods (includes gasket)	10.4575	10.4577
Dust cover for HA 10 Hoods	10.4576	10.4578

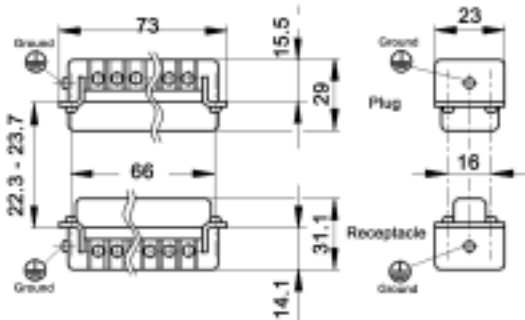
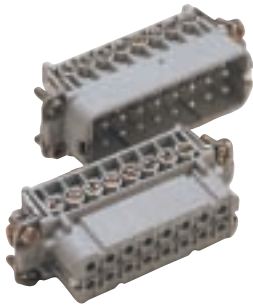
EPIC® CONNECTORS

HA 16 Plugs & Receptacles

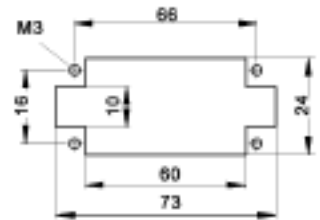
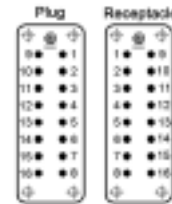
HA 16 Housings: Single Lever on Base



SCREW TERMINATED INSERTS



Panel
Cut-Out



View from
cable side

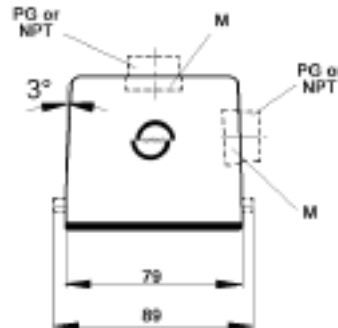
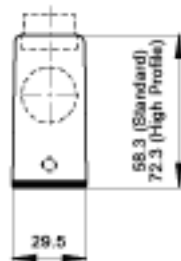
All dimensions are in mm.

These inserts fit in
the HA 16 Series
Housings.

	Plug:	Receptacle:
HA 16 with Wire Protection	10.5300	10.5310
HA 16 without Wire Protection	10.5320	10.5330

HOODS

TOP ENTRY



SIDE ENTRY



STANDARD PROFILE

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	16	1/2"	20	10.565010	10.5650 NP	19.5650	70.4910	70.4910 NP	79.4910
	21	3/4"	25	10.565210	10.5652 NP	19.5653	-	-	-
Side Entry	16	1/2"	20	10.564010	10.5640 NP	19.5640	70.4930	70.4930 NP	79.4930
	21	3/4"	25	10.564510	10.5645 NP	19.5645	-	-	-

HIGH PROFILE

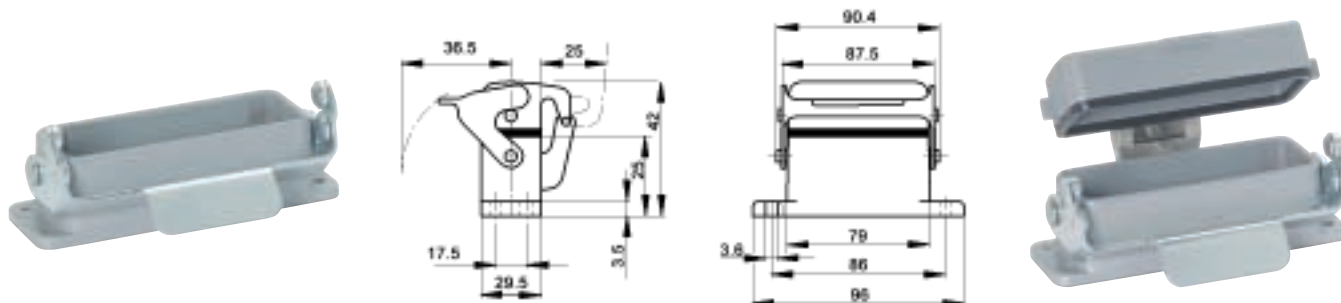
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	16	1/2"	20	70.4902	70.4902 NP	79.4902	70.4912	70.4912 NP	79.4912
	21	3/4"	25	70.4904	70.4904 NP	79.4904	70.4914	70.4914 NP	79.4914
Side Entry	16	1/2"	20	70.4922	70.4922 NP	79.4922	70.4932	70.4932 NP	79.4932
	21	3/4"	25	70.4924	70.4924 NP	79.4924	70.4934	70.4934 NP	79.4934

Metric hoods do not come with a neck.

EPIC® CONNECTORS

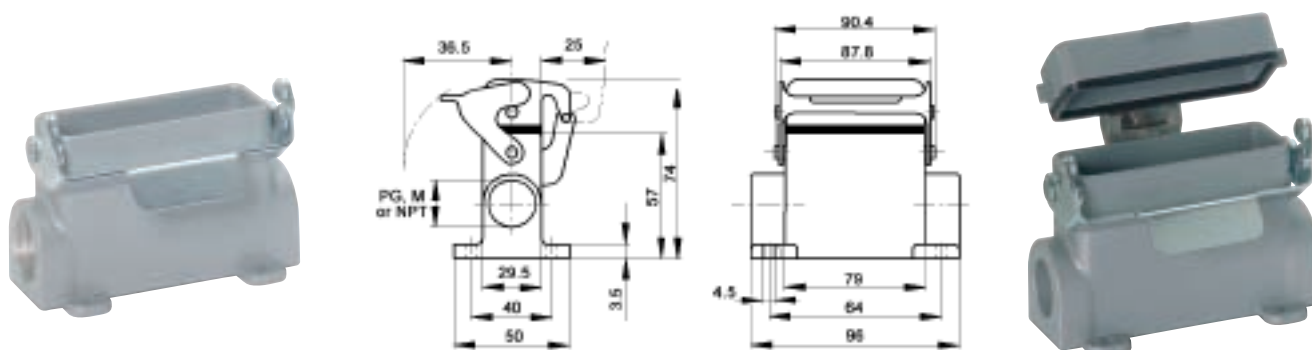
HA 16 Housings: Single Lever on Base

PANEL MOUNT BASE



Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.4620	70.4725
Panel Mount with Dust Cover	70.4740	70.4745

SURFACE MOUNT BASES



All dimensions are in mm.

WITHOUT DUST COVER

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
1 Entry	16	1/2"	20	10.5671	10.5671 NP	19.5671	70.4772	70.4772 NP	79.4772
	21	3/4"	25	10.5670	10.5670 NP	19.5670	70.4774	70.4774 NP	79.4774
2 Entries	16	1/2"	20	10.5681	10.5681 NP	19.5681	70.4782	70.4782 NP	79.4782
	21	3/4"	25	10.5680	10.5680 NP	19.5680	70.4784	70.4784 NP	79.4784

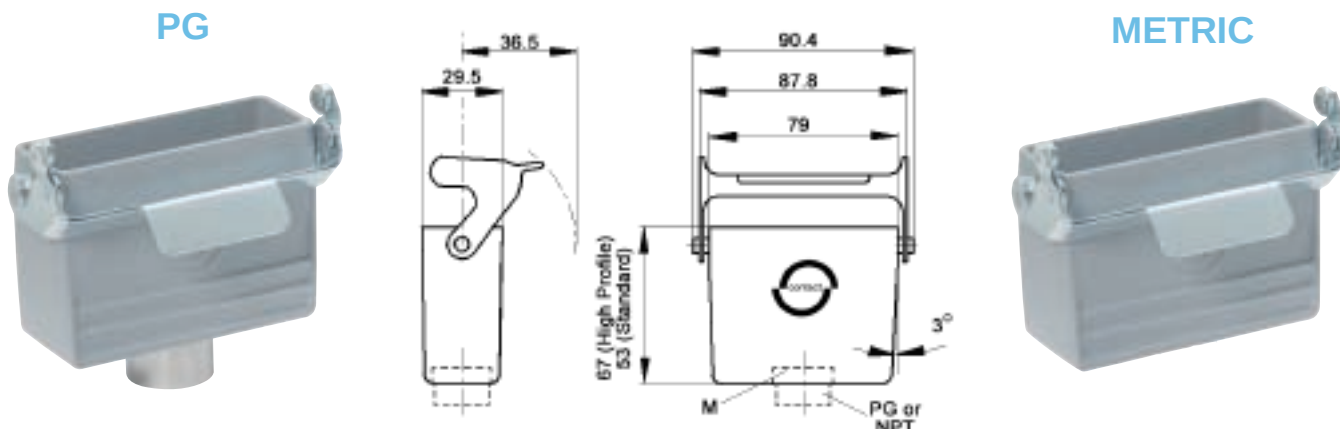
WITH DUST COVER

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
1 Entry	16	1/2"	20	70.4852	70.4852 NP	79.4852	70.4872	70.4872 NP	79.4872
	21	3/4"	25	70.4854	70.4854 NP	79.4854	70.4874	70.4874 NP	79.4874
2 Entries	16	1/2"	20	70.4862	70.4862 NP	79.4862	70.4882	70.4882 NP	79.4882
	21	3/4"	25	70.4864	70.4864 NP	79.4864	70.4884	70.4884 NP	79.4884

EPIC® CONNECTORS

HA 16 Housings: Single Lever on Base

CABLE COUPLER HOODS

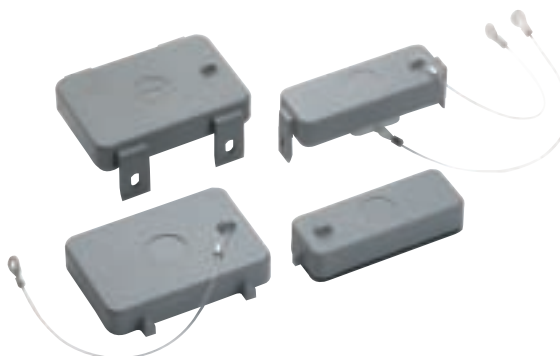


All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard	16	1/2"	20	10.5630	10.5630 NP	19.5630	70.4810	70.4810 NP	79.4810
	-	-	25	-	-	19.5632	-	-	-
High	16	1/2"	20	70.4802	70.4802 NP	79.4802	70.4812	70.4812 NP	79.4812
	21	3/4"	25	70.4804	70.4804 NP	79.4804	70.4814	70.4814 NP	79.4814

Metric hoods do not come with a neck.

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



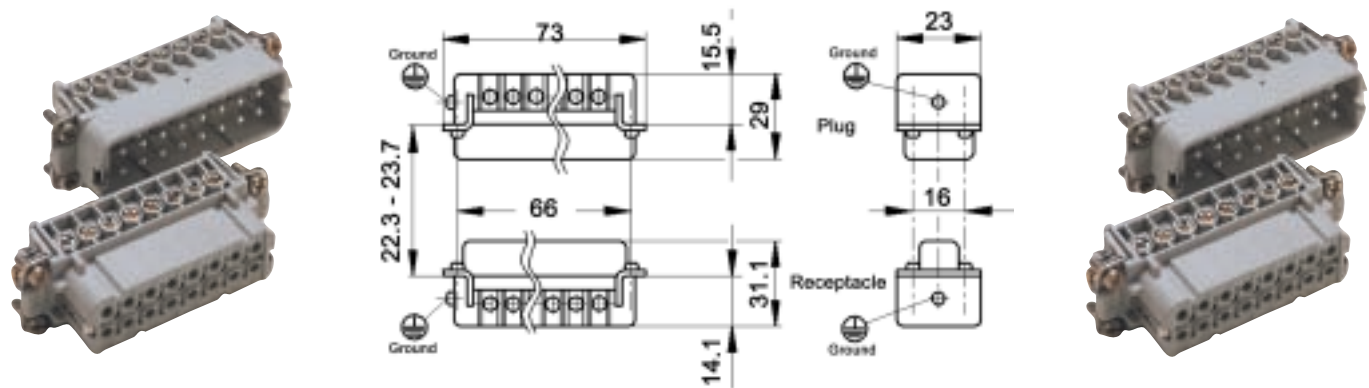
Material: Thermoplastic Resin

Temperature: -40°C to 125°C

Description	Part # with string	Part # without string
Dust cover for HA 16 Panel Mount or Surface Mount Base/ Cable Coupler hoods (includes gasket)	10.4695	10.4697
Dust cover for HA 16 Hoods	10.4696	10.4698

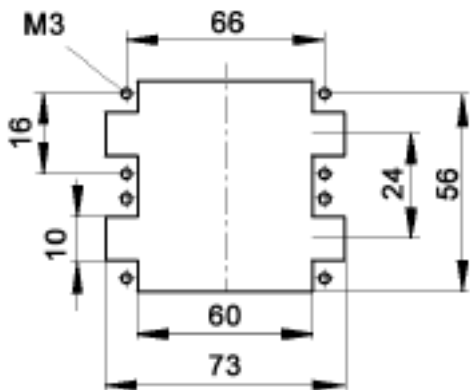


SCREW TERMINATED INSERTS

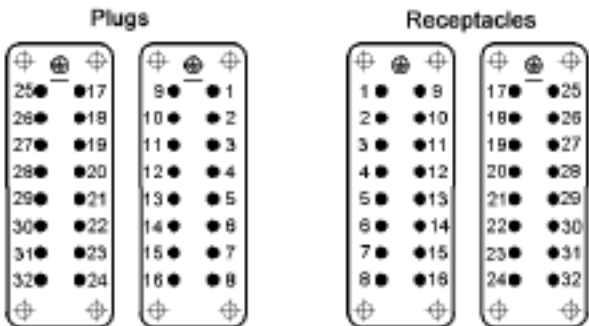


All dimensions are in mm.

Panel Cut-out
(Insert only)



View from cable side



2 Sets of HA 16 Inserts

	Plug:	Receptacle:
#1-16: with Wire Protection	10.5300	10.5310
#17-32: with Wire Protection	10.5400	10.5410
#1-16: without Wire Protection	10.5320	10.5330
#17-32: without Wire Protection	10.5420	10.5430

These inserts fit in the HA 32 Series Housings.

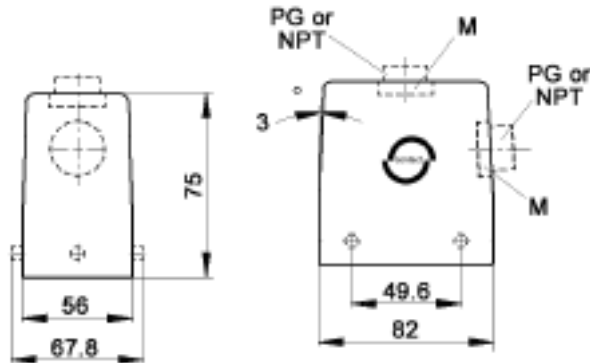
EPIC® CONNECTORS

HA 32 Housings: Double Levers on Base

TOP ENTRY



HOODS



All dimensions are in mm.

SIDE ENTRY



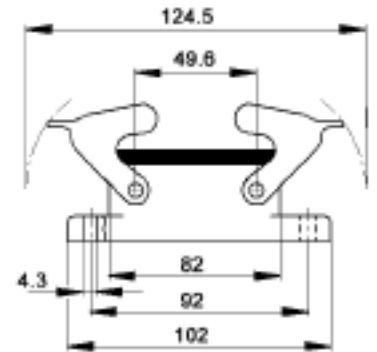
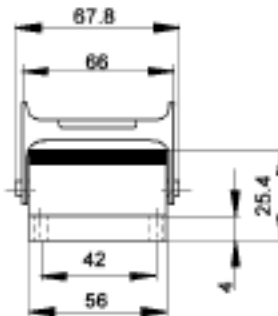
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.5820	10.5820 NP	19.5820	70.5212	70.5212 NP	79.5212
	29	1"	32	10.5830	10.5830 NP	19.5830	70.5214	70.5214 NP	79.5214
Side Entry	21	3/4"	25	10.5760	10.5760 NP	19.5760	70.5232	70.5232 NP	79.5232
	29	1"	32	10.5770	10.5770 NP	19.5770	70.5234	70.5234 NP	79.5234

Metric hoods do not come with a neck.

PANEL MOUNT BASE

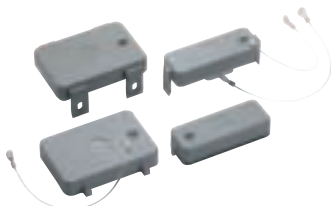


All dimensions are in mm.



Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.4720	70.5025

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

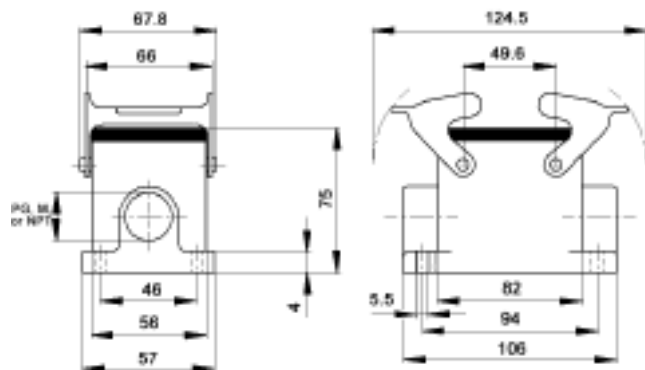
Temperature: -40°C to 125°C

	Part # with string	Part # without string
Dust cover for HA 32 Panel Mount or Surface Mount Base / Cable Coupler hoods	10.4815	10.4817
Dust cover for HA 32 Hoods (includes gasket)	10.4816	10.4818

EPIC® CONNECTORS

HA 32 Housings: Double Levers on Base

SURFACE MOUNT BASE



All dimensions are in mm.

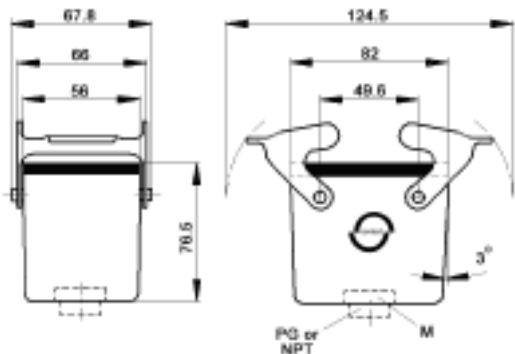
Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
1 Entry with Dust Cover	21	3/4"	25	10.4740	10.4740 NP	19.4740	70.5072	70.5072 NP	79.5072
	29	1"	32	10.4741	10.4741 NP	19.4741	70.5074	70.5074 NP	79.5074
2 Entries with Dust Cover	21	3/4"	25	10.4820	10.4820 NP	19.4820	70.5082	70.5082 NP	79.5082
	29	1"	32	10.4821	10.4821 NP	19.4821	70.5084	70.5084 NP	79.5084

Metric bases do not come with a neck.

CABLE COUPLER HOODS

PG

METRIC



All dimensions are in mm.



Size of Entry			Standard Grey Coating			Black Coating (EP)		
PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
21	3/4"	25	10.5880	10.5880 NP	19.5880	70.5110	70.5110 NP	79.5110
29	1"	32	10.5885	10.5885 NP	19.5885	70.5112	70.5112 NP	79.5112

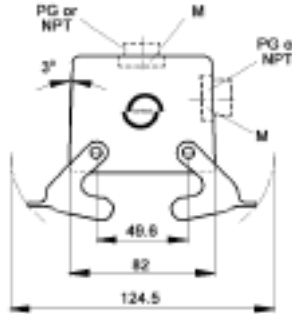
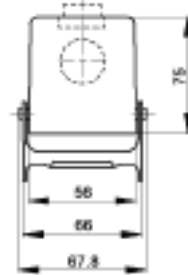
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HA 32 Housings: Double Levers on Hood

HOODS

TOP ENTRY



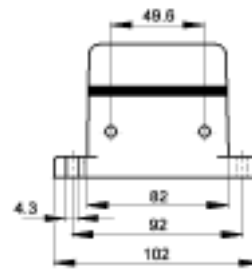
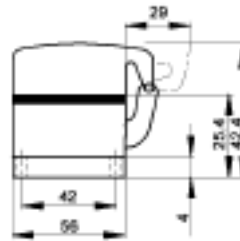
SIDE ENTRY



Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.5840	10.5840 NP	19.5840	70.5262	70.5262 NP	79.5262
	29	1"	32	10.5850	10.5850 NP	19.5850	70.5264	70.5264 NP	79.5264
Side Entry	21	3/4"	25	10.5780	10.5780 NP	19.5780	70.5282	70.5282 NP	79.5282
	29	1"	32	10.5790	10.5790 NP	19.5790	70.5284	70.5284 NP	79.5284

Metric hoods do not come with a neck.

PANEL MOUNT BASE



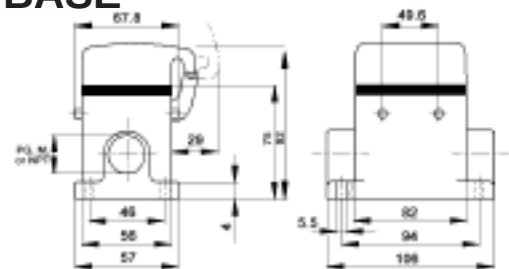
Standard Grey Coating	
With Cover	Without Cover
70.5030	10.4731

Black Coating (EP)	
With Dust Cover	
70.5035	



SURFACE MOUNT BASE

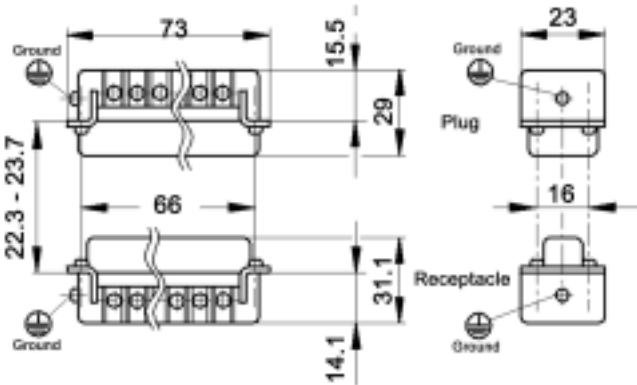
Metric bases do not come with a neck.



Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
1 Entry with Dust Cover	21	3/4"	25	70.5152	70.5152 NP	79.5152	70.5172	70.5172 NP	79.5172
	29	1"	32	70.5154	70.5154 NP	79.5154	70.5174	70.5174 NP	79.5174
2 Entries with Dust Cover	21	3/4"	25	70.5162	70.5162 NP	79.5162	70.5182	70.5182 NP	79.5182
	29	1"	32	70.5164	70.5164 NP	79.5164	70.5184	70.5184 NP	79.5184

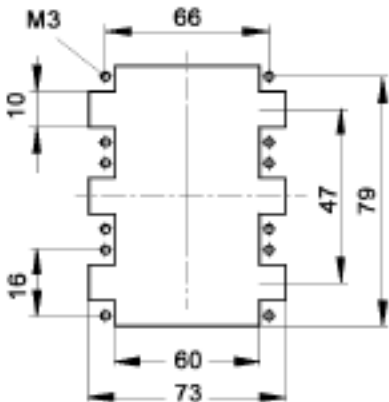


SCREW TERMINATED INSERTS



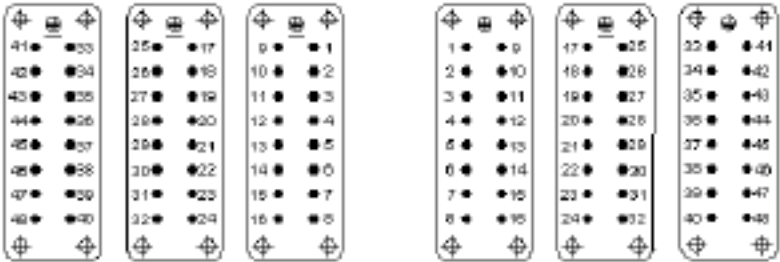
Panel Cut-Out
(Inserts Only)

View from cable side



Plugs

Receptacles



3 Sets of HA 16 Inserts

All dimensions
are in mm.

	Plug:	Receptacle:
#1-16: with Wire Protection	10.5300	10.5310
#17-32: with Wire Protection	10.5400	10.5410
#33-48: with Wire Protection	10.5401	10.5411
#1-16: without Wire Protection	10.5320	10.5330
#17-32: without Wire Protection	10.5420	10.5430
#33-48: without Wire Protection	10.5421	10.5431

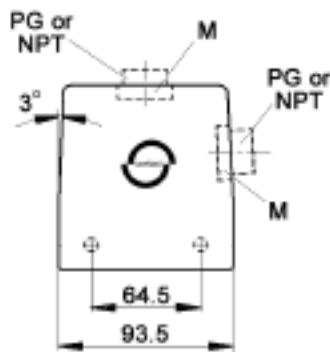
These inserts
fit in the HA
48 Series
Housings.

EPIC® CONNECTORS

HA 48 Housings: Double Levers on Base

HOODS

TOP ENTRY



SIDE ENTRY

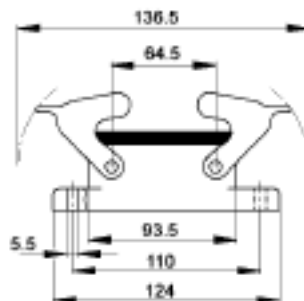
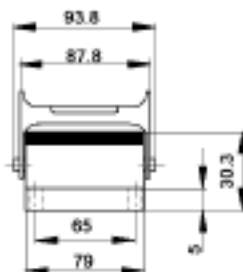


All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
Top Entry	29	1"	32	10.6318	10.6318 NP	-
Side Entry	29	1"	32	10.6308	10.6308 NP	19.6308

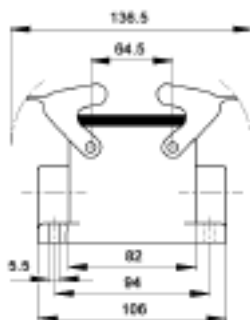
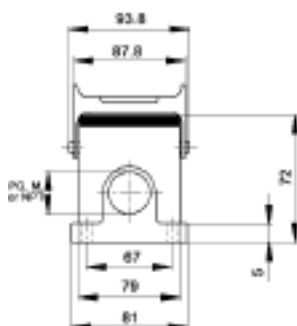
Metric hoods do not come with a neck.

PANEL MOUNT BASE



Standard Grey Coating
10.6255

SURFACE MOUNT BASE



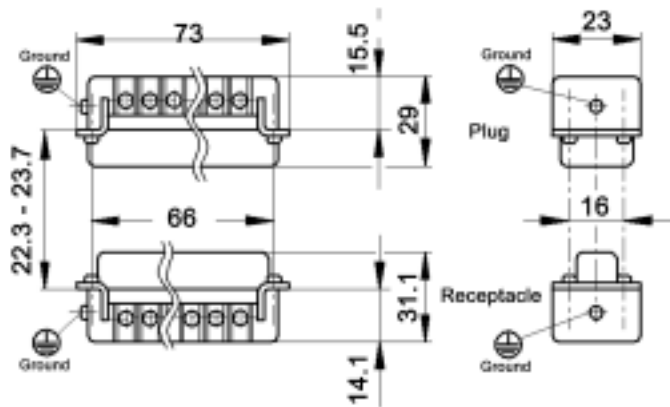
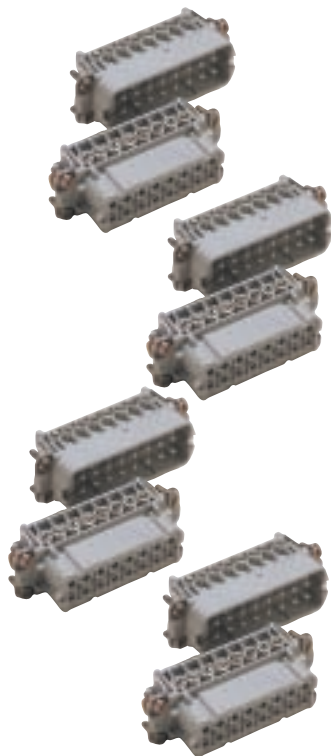
Metric bases do not come with a neck.



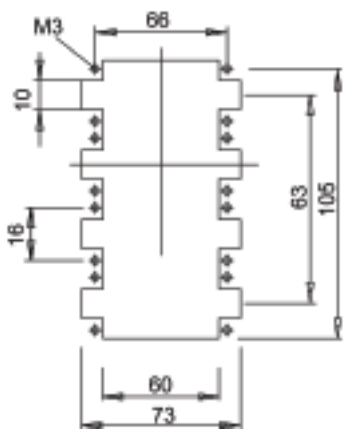
Number of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
1 Entry	29	1"	32	10.6338	10.6338 NP	19.6338
2 Entries	29	1"	32	10.6348	10.6348 NP	19.6348



SCREW TERMINATED INSERTS



Panel Cut-Out
(Inserts Only)

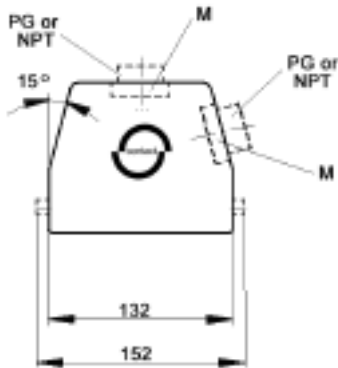
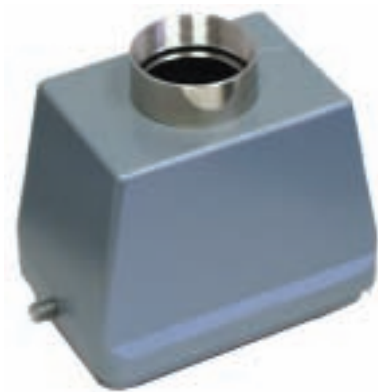


All dimensions are in mm.

	Plug:	Receptacle:
#1-16: with Wire Protection	10.5300	10.5310
#17-32: with Wire Protection	10.5400	10.5410
#33-48: with Wire Protection	10.5401	10.5411
#49-64: with Wire Protection	10.5405	10.5415

HOODS

TOP ENTRY



All dimensions are in mm.

SIDE ENTRY



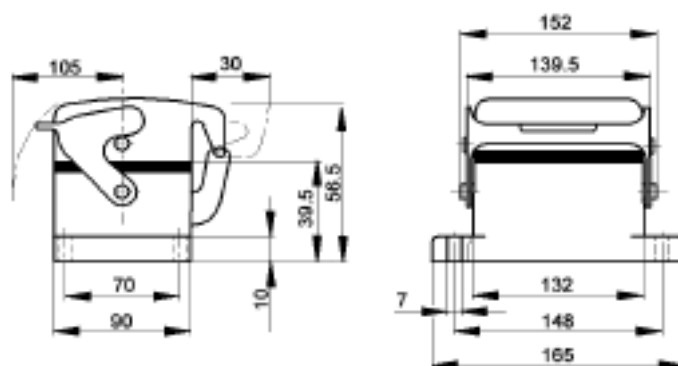
# of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
Top Entry	29	1"	32	10.1550-HA	10.1550 NP-HA	19.1550-HA
	36	1 1/4"	40	10.1560-HA	10.1560 NP-HA	19.1560-HA
	42	1 1/2"	50	10.1570-HA	-	19.1570-HA
Side Entry	29	1"	32	10.1580-HA	10.1580 NP-HA	19.1580-HA
	36	1 1/4"	40	10.1590-HA	10.1590 NP-HA	19.1590-HA
	42	1 1/2"	50	10.1600-HA	-	19.1600-HA

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HA 64 Housings: Single Lever on Base

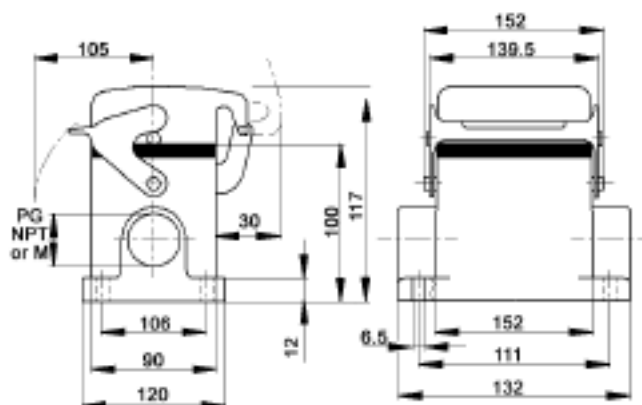
PANEL MOUNT BASE



All dimensions are in mm.

Without Dust Cover	With Dust Cover with hold down screw and no dust cover bolts	With Dust Cover with hold down screw and dust cover bolts
10.1610-HA	10.1520-HA	10.1525-HA

SURFACE MOUNT BASE



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
2 Entries	29	1"	32	10.1660-HA	10.1660 NP-HA	19.1660-HA
	36	1 1/4"	40	10.1661-HA	10.1661 NP-HA	19.1661-HA
1 Entry	29	1"	32	10.1650-HA	10.1650 NP-HA	19.1650-HA
	36	1 1/4"	40	10.1651-HA	10.1651 NP-HA	19.1651-HA
2 Entries with dust cover	29	1"	32	10.1680-HA	10.1680 NP-HA	19.1680-HA
	36	1 1/4"	40	10.1681-HA	10.1681 NP-HA	19.1681-HA
1 Entry with dust cover	29	1"	32	10.1670-HA	10.1670 NP-HA	19.1670-HA
	36	1 1/4"	40	10.1671-HA	10.1671 NP-HA	19.1671-HA

EPIC® CONNECTORS

HQ Series



The EPIC® HQ 5 insert fills the gap between the smallest configuration EPIC® HA and EPIC® HD connector inserts. It provides more contacts (5+PE) in the same housing space as the EPIC® HA 3 and HA 4 inserts with a higher current capability (16A vs. 10A) than the EPIC® HD 7 and HD 8 inserts. They are ideal for applications in the transportation and automotive industries, and in many other industrial applications.

HQ 5 Series

258

EPIC® CONNECTORS

HQ Series

TECHNICAL DATA

Number of Contacts: 5 (+PE)

Rated Voltage: UL/ CSA: 600V
VDE: 400V

Rated Current: UL/ CSA: 16A

Temperature Range: -40°C to 125°C

Pollution Degree: 3

Test Voltage: 4 kV

Termination Type:

Machined Crimp: 0.5 - 2.5 mm² 20 - 14 AWG

Contacts:

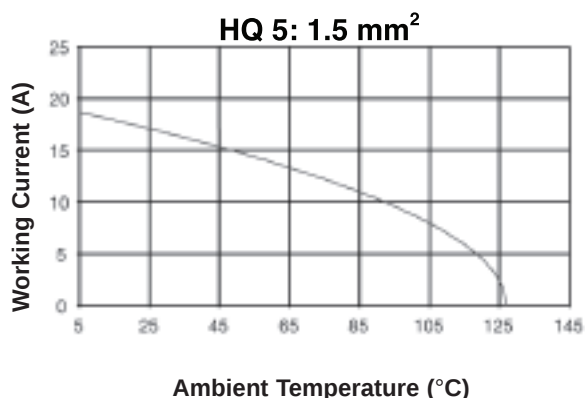
Material: Copper alloy, silver plated/gold plated

Mating Cycles: 100 (higher mating cycles depending on the application)

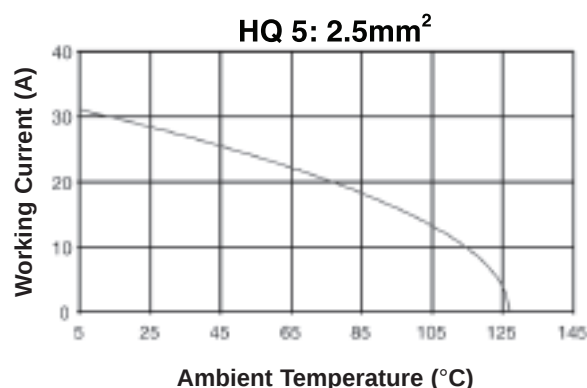
Contact Resistance: ≤ 2 mΩ

HQ INSERTS: DERATING CURVES

HQ 5: 1.5 mm² (16 AWG)



HQ 5: 2.5 mm² (14 AWG)



MATING COMPONENTS

HQ 5 Plugs & Receptacles fit into EPIC® HA 3/4 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 239). Please note that metric parts are available

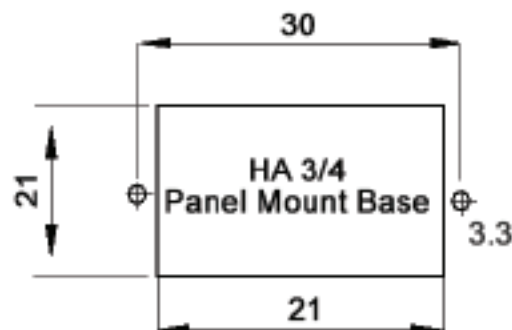
PG



NPT



METRIC

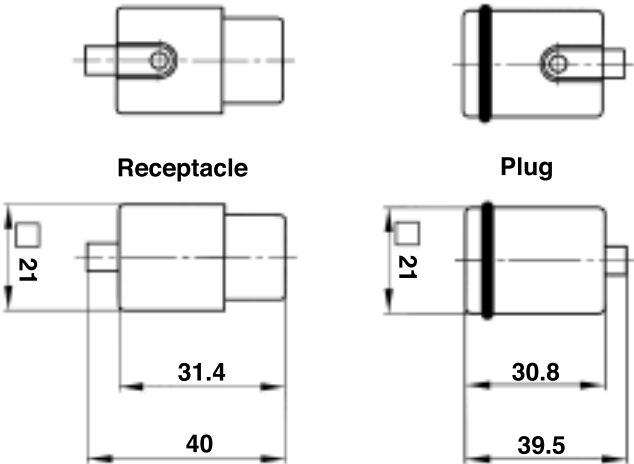
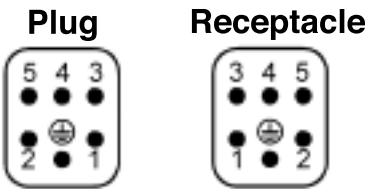




CRIMP TERMINATED INSERTS



View from cable side



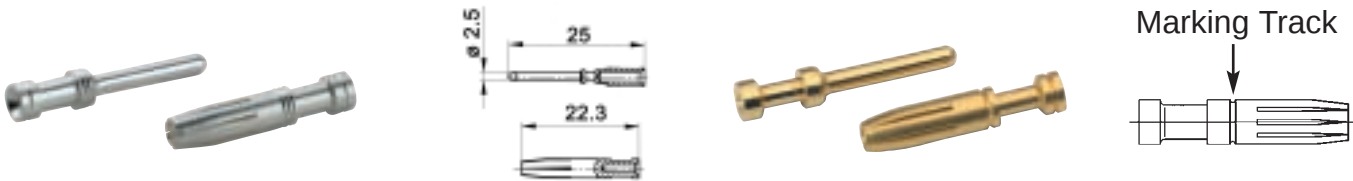
All dimensions are in mm.

	Plug	Receptacle
Crimp Termination	10.4315	10.4325

Contacts Sold Separately

10.4365: HQ5 Coding Pin (with contact loss)

MACHINED CONTACTS: DIAMETER 2.5 MM²



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool:
11.1825

EPIC® CONNECTORS

HA 3/4 Housings: Single Lever on Base for HQ 5 Inserts

HOODS

TOP ENTRY



Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5121 NP	10.4265
Black Plastic	11	1/2"	10.4255 NP	10.4267
Grey Plastic	11	1/2"	10.4260 NP	10.4264

SIDE ENTRY

Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5123 NP	10.4275
Black Plastic	11	1/2"	10.4273 NP	10.6206
Grey Plastic	11	1/2"	10.4270 NP	10.4271

PANEL MOUNT BASES



Grey Metal
10.4225

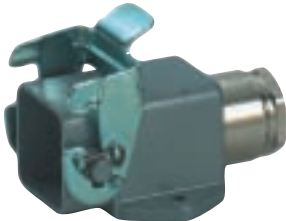
Grey Metal
10.4235

Black Plastic	Grey Plastic
10.4222	10.4220

Black Plastic	Grey Plastic
10.4231	10.4230



SURFACE MOUNT BASES



Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5127 NP	10.4245
Black Plastic	11	1/2"	10.5117 NP	10.4247
Grey Plastic	11	1/2"	10.4240 NP	10.4242

CABLE COUPLER HOOD



Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5129 NP	10.4295
Black Plastic	11	1/2"	10.4292 NP	10.6203
Grey Plastic	11	1/2"	10.4290 NP	10.4291

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin or Aluminum

Temperature: -40°C to 125°C

Covers for Panel Mount or Surface Mount Bases and Cable Coupler Hoods	Part # with string	Part # without string
Dust Cover for HA 3/4 Housings with Male Insert	10.4304	10.4300
Metal Dust Cover for HA 3/4 Housings with Male Insert	10.5130	10.4303
Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)	10.4301	-
Metal Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)	10.5131	-

EPIC® CONNECTORS

STA Series

The STA inserts with solid spring designed contacts are used extensively in the construction of devices, in control units, laboratories, and withdrawable unit design. These inserts are available with screw or solder termination which fit into the HA Series Housings.

The HA Series Housings are compact in shape and utilize fixed levers.



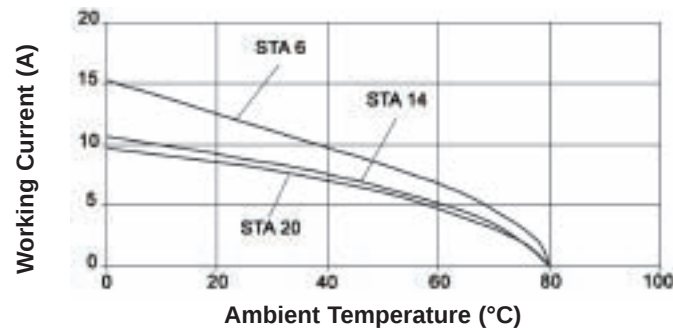
STA 6 Series	262
STA 14 Series	264
STA 20 Series	266
STA 40 Series	268

TECHNICAL DATA

Number of Contacts:	6, 14, 20, 40	Termination Type:	Solder termination: up to 1.5 mm ² Screw termination: 0.5 - 1.5 mm ²
Rated Voltage:	VDE: 60V EPIC STA 6 - 20 UL: 48V EPIC STA 6 - 20 CSA: 48V EPIC STA 6 - 20	Temperature Range:	-40°C to 80°C
Rated Current:	VDE: 10A EPIC STA 6 - 20 UL: 10A EPIC STA 6 - 20 CSA: 10A EPIC STA 6 - 20	Contacts:	Copper alloy, silver plated
Pollution Level:	2	Contact Resistance:	<2mOhm
Test Voltage:	1.0 kV	Mating Cycles:	100 (higher mating cycles depends on the application)

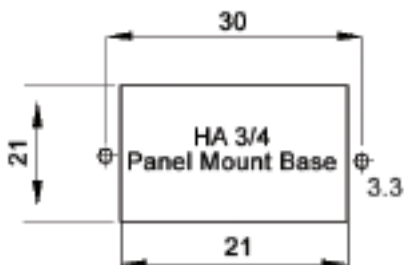
STA INSERTS: DERATING CURVES

STA: 1.0 mm² (18 AWG)

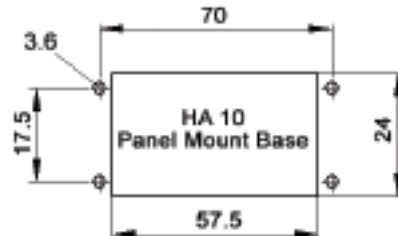


TECHNICAL DATA: PANEL CUT-OUTS

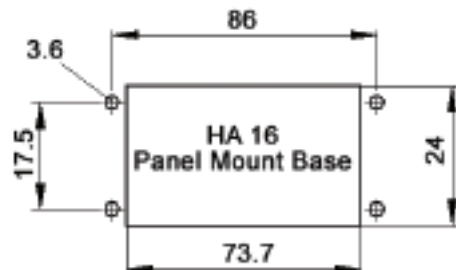
STA 6 Inserts fit into



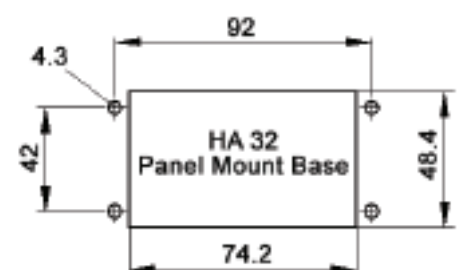
STA 14 Inserts fit into



STA 20 Inserts fit into



STA 40 Inserts fit into



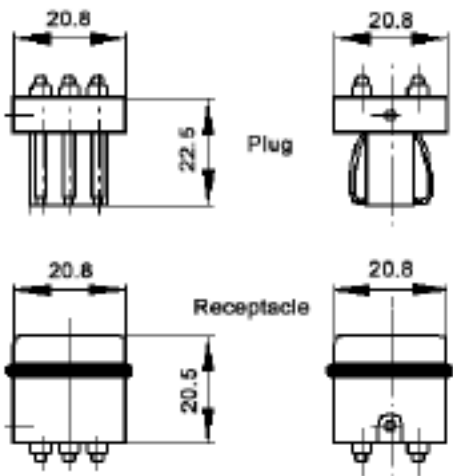
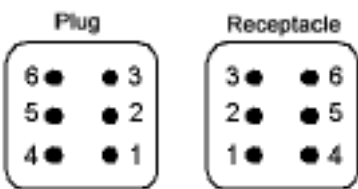
All dimensions are in mm.



SCREW TERMINATED INSERTS



View from cable side



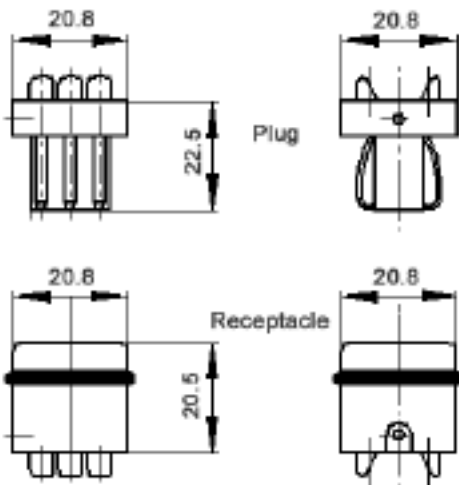
	Plug	Receptacle
Screw Termination	10.4881	10.4861

All dimensions are in mm.

SOLDER TERMINATED INSERTS



View from cable side



	Plug	Receptacle
Solder Termination	10.4872	10.4852

MATING COMPONENTS

STA 6 Plugs & Receptacles fit into the EPIC® HA 3/4 Housings. Following is a quick reference for the mating components. Diagrams are located in the HA Section of the catalog (Page 239). Please note that metric parts are available.

EPIC® CONNECTORS

HA 3/4 Housings: Single Lever on Base for STA 6 Inserts

HOODS



TOP ENTRY

Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5121 NP	10.4265
Black Plastic	11	1/2"	10.4255 NP	10.4267
Grey Plastic	11	1/2"	10.4260 NP	10.4264

SIDE ENTRY

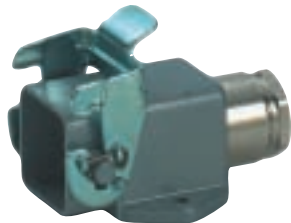
Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5123 NP	10.4275
Black Plastic	11	1/2"	10.4273 NP	10.6206
Grey Plastic	11	1/2"	10.4270 NP	10.4271



PANEL MOUNT BASES



Grey Metal 10.4225		Grey Metal 10.4235	
Black Plastic 10.4222	Grey Plastic 10.4220	Black Plastic 10.4231	Grey Plastic 10.4230



SURFACE MOUNT BASES

Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5127 NP	10.4245
Black Plastic	11	1/2"	10.5117 NP	10.4247
Grey Plastic	11	1/2"	10.4240 NP	10.4242



CABLE COUPLER HOOD

Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5129 NP	10.4295
Black Plastic	11	1/2"	10.4292 NP	10.6203
Grey Plastic	11	1/2"	10.4290 NP	10.4291

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin or Aluminum

Temperature: -40°C to 125°C

Covers for Panel Mount or Surface Mount Bases/ and Cable Coupler Hoods	Part # with string	Part # without string
Dust Cover for HA 3/4 Housings with Male Insert	10.4304	10.4300
Metal Dust Cover for HA 3/4 Housings with Male Insert	10.5130	10.4303
Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)	10.4301	-
Metal Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)	10.5131	-

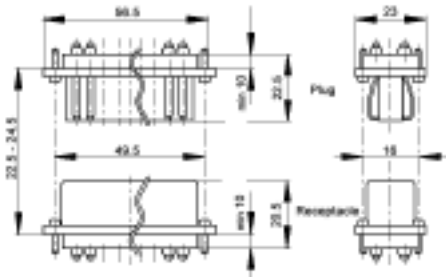
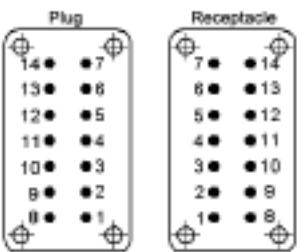
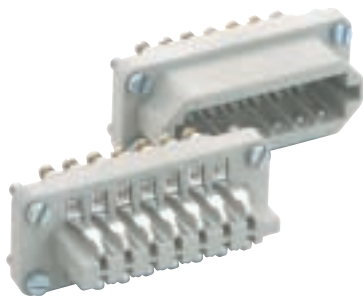
EPIC® CONNECTORS

STA 14 Plugs & Receptacles



SCREW TERMINATED INSERTS

View from cable side



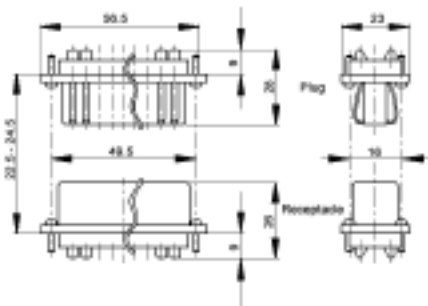
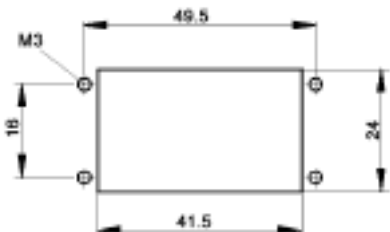
Same panel cut out as
solder terminated inserts

	Plug	Receptacle
Screw Termination	10.4931	10.4911

SOLDER TERMINATED INSERTS



Panel Cut-Out
(Insert Only)



All dimensions are in mm.

Same view from cable side as
screw terminated inserts

	Plug	Receptacle
Solder Termination	10.4922	10.4902

MATING COMPONENTS

STA 14 Plugs & Receptacles fit into the EPIC® HA 10 Housings. Following is a quick reference for the mating components. Diagrams are located in the HA Section of the catalog. Please note that metric parts are available.

Standard Grey Coating (NEMA 4)

EP Black Coating (NEMA 4X)

PG

NPT

METRIC

PG

NPT

METRIC



EPIC® CONNECTORS

HA 10 Housings: Single Lever on Base for STA 14 Inserts



HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	13.5	1/2"	10.446010	10.4460 NP	-	-
	16	1/2"	10.446110	10.4461 NP	70.4610	70.4610 NP
Side Entry	16	1/2"	10.445010	10.4450 NP	70.4630	70.4630 NP
	21	3/4"	10.445510	10.4455 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	70.4602	70.4602 NP	70.4612	70.4612 NP
	21	3/4"	70.4604	70.4604 NP	70.4614	70.4614 NP
Side Entry	16	1/2"	70.4622	70.4622 NP	70.4632	70.4632 NP
	21	3/4"	70.4624	70.4624 NP	70.4634	70.4634 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4420	70.4425
With Dust Cover	70.4440	70.4445

SURFACE MOUNT BASES

WITHOUT DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	10.4481	10.4481 NP	70.4472	70.4472 NP
	21	3/4"	10.4480	10.4480 NP	70.4474	70.4474 NP
2 Entries	16	1/2"	10.4501	10.4501 NP	70.4482	70.4482 NP
	21	3/4"	10.4500	10.4500 NP	70.4484	70.4484 NP

WITH DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	70.4552	70.4552 NP	70.4572	70.4572 NP
	21	3/4"	70.4554	70.4554 NP	70.4574	70.4574 NP
2 Entries	16	1/2"	70.4562	70.4562 NP	70.4582	70.4582 NP
	21	3/4"	70.4564	70.4564 NP	70.4584	70.4584 NP



CABLE COUPLER HOOD

Profile	Size of Entry		Without Cable Gland		With Cable Gland	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	13.5	1/2"	10.4390	10.4390 NP	-	-
	16	1/2"	70.4500	70.4500 NP	70.4510	70.4510 NP
High Profile	21	3/4"	70.4504	70.4504 NP	70.4514	70.4514 NP

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

Temperature: -40°C to 125°C

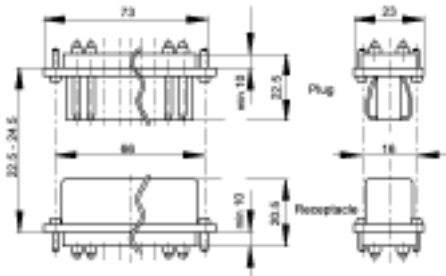
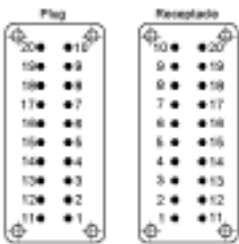
	Part # with string	Part # without string
Dust cover for HA 10 Panel Mount or Surface Mount Base/ Cable Coupler hoods (includes gasket)	10.4575	10.4577
Dust cover for HA 10 Hoods	10.4576	10.4578



SCREW TERMINATED INSERTS



View from cable side



All dimensions are in mm.

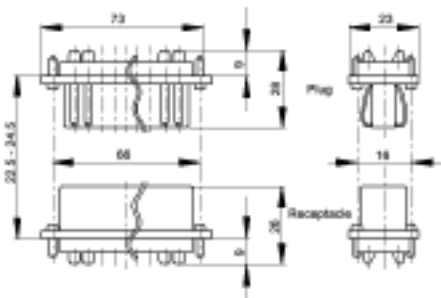
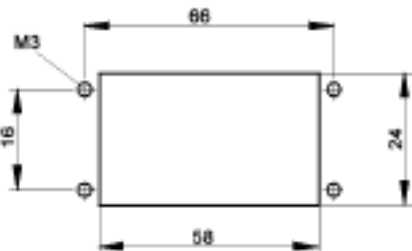
Same panel cut out as
solder terminated inserts

	Plug	Receptacle
Screw Termination	10.5031	10.5011

SOLDER TERMINATED INSERTS



Panel Cut-Out
(Insert Only)



All dimensions are in mm.

Same view from cable side as
screw terminated inserts

	Plug	Receptacle
Solder Termination	10.5022	10.5002

MATING COMPONENTS

STA 20 Plugs & Receptacles fit into the EPIC® HA 16 Housings. Following is a quick reference for the mating components. Diagrams are located in the HA Section of the catalog (Page 245). Please note that metric parts are available.

Standard Grey Coating (NEMA 4)

EP Black Coating (NEMA 4X)

PG

NPT

METRIC

PG

NPT

METRIC



EPIC® CONNECTORS

HA 16 Housings: Single Lever on Base for STA 20 Inserts



HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.565010	10.5650 NP	70.4910	70.4910 NP
	21	3/4"	10.565210	10.5652 NP	-	-
Side Entry	16	1/2"	10.564010	10.5640 NP	70.4930	70.4930 NP
	21	3/4"	10.564510	10.5645 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	70.4902	70.4902 NP	70.4912	70.4912 NP
	21	3/4"	70.4904	70.4904 NP	70.4914	70.4914 NP
Side Entry	16	1/2"	70.4922	70.4922 NP	70.4932	70.4932 NP
	21	3/4"	70.4924	70.4924 NP	70.4934	70.4934 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4620	70.4725
With Dust Cover	70.4740	70.4745

SURFACE MOUNT BASES

WITHOUT DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	10.5671	10.5671 NP	70.4772	70.4772 NP
	21	3/4"	10.5670	10.5670 NP	70.4774	70.4774 NP
2 Entries	16	1/2"	10.5681	10.5681 NP	70.4782	70.4782 NP
	21	3/4"	10.5680	10.5680 NP	70.4784	70.4784 NP

WITH DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	70.4852	70.4852 NP	70.4872	70.4872 NP
	21	3/4"	70.4854	70.4854 NP	70.4874	70.4874 NP
2 Entries	16	1/2"	70.4862	70.4862 NP	70.4882	70.4882 NP
	21	3/4"	70.4864	70.4864 NP	70.4884	70.4884 NP



CABLE COUPLER HOOD

Profile	Size of Entry		Without Cable Gland		With Cable Gland	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.5630	10.5630 NP	70.4810	70.4810 NP
High Profile	16	1/2"	70.4802	70.4802 NP	70.4812	70.4812 NP
	21	3/4"	70.4804	70.4804 NP	70.4814	70.4814 NP

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part # with string	Part # without string
Dust cover for HA 16 Panel Mount or Surface Mount Base/ Cable Coupler hoods (includes gasket)	10.4695	10.4697
Dust cover for HA 16 Hoods	10.4696	10.4698

EPIC® CONNECTORS

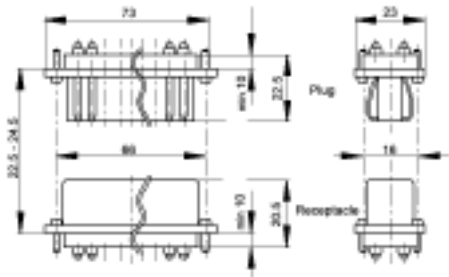
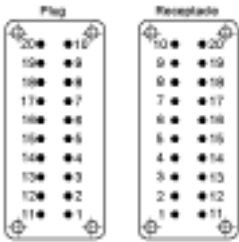
STA 40 Plugs & Receptacles



SCREW TERMINATED INSERTS



View from cable side



All dimensions are in mm.

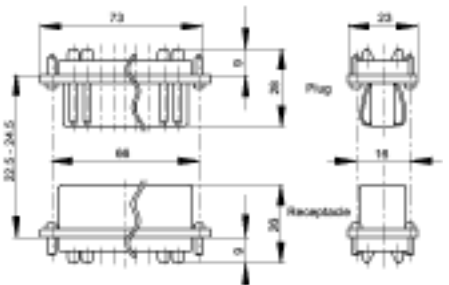
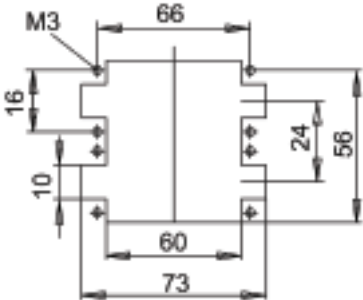
Same panel cut out as
solder terminated inserts

	Plug	Receptacle
Screw Termination (2X)	10.5031	10.5011

SOLDER TERMINATED INSERTS



Panel Cut-Out
(Insert Only)



All dimensions are in mm.

Same view from cable side as
screw terminated inserts

	Plug	Receptacle
Solder Termination (2X)	10.5022	10.5002

MATING COMPONENTS

STA 40 Plugs & Receptacles fit into the EPIC® HA 32 Housings. Following is a quick reference for the mating components. Diagrams are located in the HA Section of the catalog (Page 249). Please note that metric parts are available.

Standard Grey Coating (NEMA 4)

EP Black Coating (NEMA 4X)

PG

NPT

METRIC

PG

NPT

METRIC



EPIC® CONNECTORS

HA 32 Housings: Double Levers on Base for STA 40 Inserts



HOODS

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.5820	10.5820 NP	70.5212	70.5212 NP
	29	1"	10.5830	10.5830 NP	70.5214	70.5214 NP
Side Entry	21	3/4"	10.5760	10.5760 NP	70.5232	70.5232 NP
	29	1"	10.5770	10.5770 NP	70.5234	70.5234 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4720	70.5025

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	21	3/4"	10.4740	10.4740 NP	70.5072	70.5072 NP
	29	1"	10.4741	10.4741 NP	70.5074	70.5074 NP
2 Entries	21	3/4"	10.4820	10.4820 NP	70.5082	70.5082 NP
	29	1"	10.4821	10.4821 NP	70.5084	70.5084 NP



CABLE COUPLER HOOD

Size of Entry		Standard Grey Coating		Black Coating (EP)	
PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
21	3/4"	10.5880	10.5880 NP	70.5110	70.5110 NP
29	1"	10.5885	10.5885 NP	70.5112	70.5112 NP

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

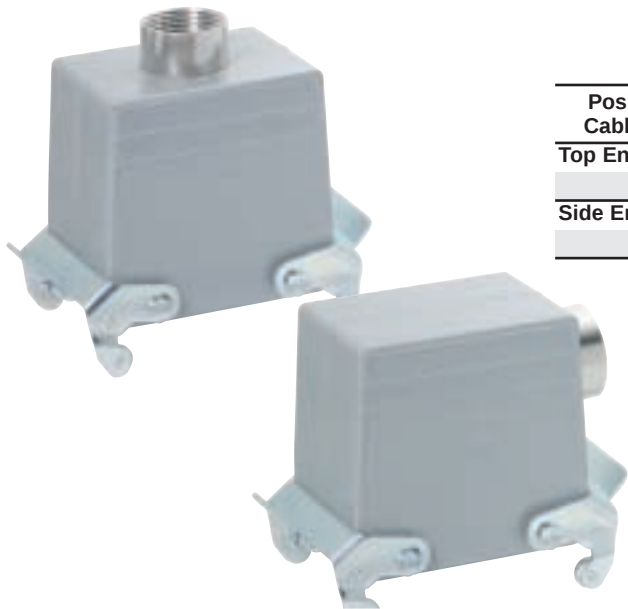
Temperature: -40°C to 125°C

	Part # with string	Part # without string
Dust cover for HA 32 Panel Mount or Surface Mount Base/ Cable Coupler hoods	10.4815	10.4817
Dust cover for HA 32 Hoods (includes gasket)	10.4816	10.4818

EPIC® CONNECTORS

HA 32 Housings: Double Levers on Hood for STA 40 Inserts

HOODS



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.5840	10.5840 NP	70.5262	70.5262 NP
	29	1"	10.5850	10.5850 NP	70.5264	70.5264 NP
Side Entry	21	3/4"	10.5780	10.5780 NP	70.5282	70.5282 NP
	29	1"	10.5790	10.5790 NP	70.5284	70.5284 NP

PANEL MOUNT BASES



WITH DUST COVER

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4731	-
With Dust Cover	70.5030	70.5035

SURFACE MOUNT BASES



WITH DUST COVER

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	21	3/4"	70.5152	70.5152 NP	70.5172	70.5172 NP
	29	1"	70.5154	70.5154 NP	70.5174	70.5174 NP
2 Entries	21	3/4"	70.5162	70.5162 NP	70.5182	70.5182 NP
	29	1"	70.5164	70.5164 NP	70.5184	70.5184 NP

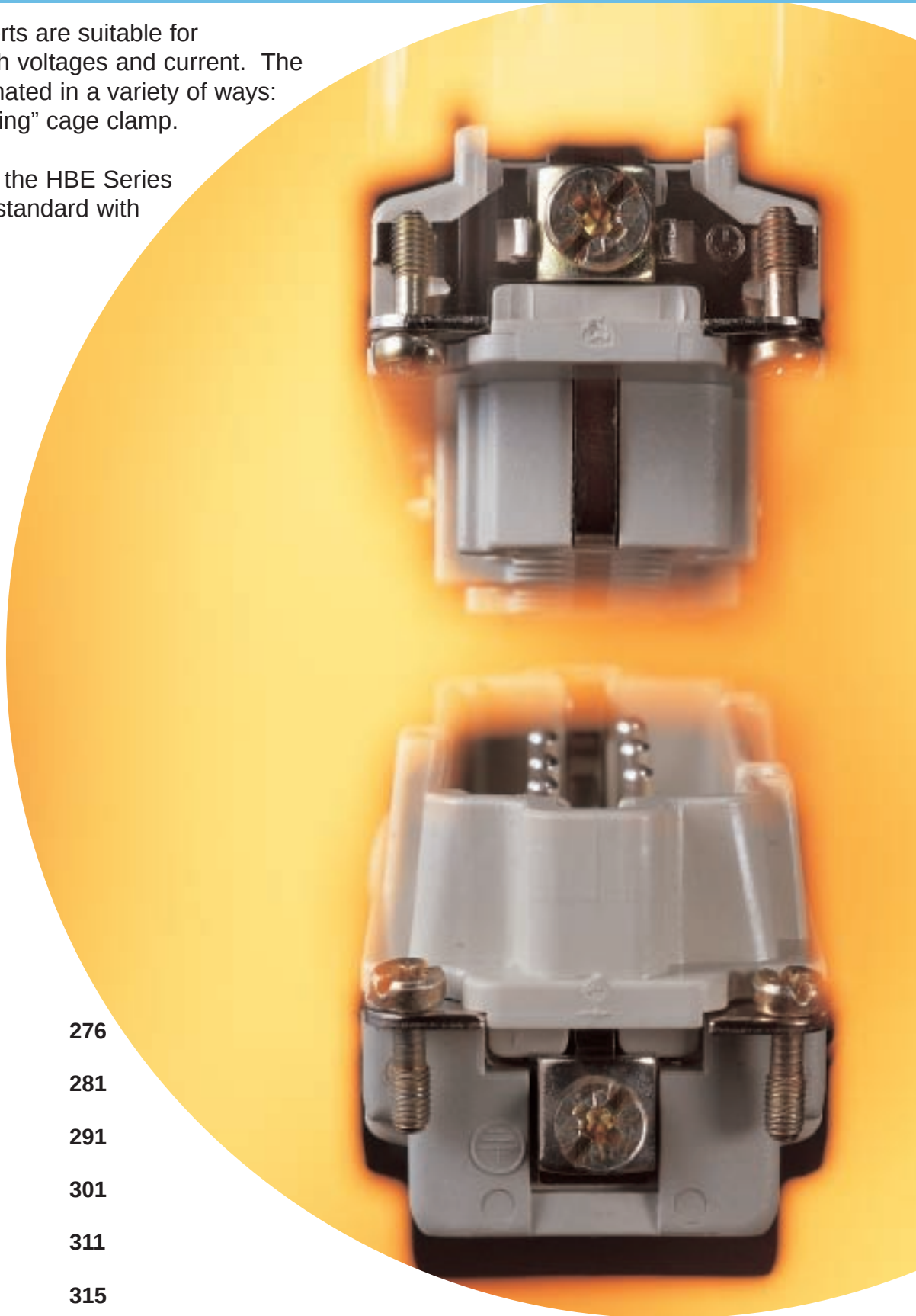
EPIC® CONNECTORS

HBE Series

The HBE series inserts are suitable for applications with high voltages and current. The inserts can be terminated in a variety of ways: screw, crimp, or “spring” cage clamp.

These inserts fit into the HBE Series housings which are standard with fixed levers.

HBE 6 Series	276
HBE 10 Series	281
HBE 16 Series	291
HBE 24 Series	301
HBE 32 Series	311
HBE 48 Series	315



TECHNICAL DATA

Number of Contacts:

6, 10, 16, 24, 32, 48 (+PE)

Screw Termination & Crimp Termination:

Rated Voltage:

VDE: 500V EPIC® HBE 6 - 48
CSA: 600V EPIC® HBE 6 - 48

UL: 600V EPIC® HBE 6 - 48

Rated Current:

VDE: 16A EPIC® HBE 6 - 48
CSA: 16A EPIC® HBE 6 - 48

UL: 16A EPIC® HBE 6 - 48

Temperature Range:

-40°C to 125°C

Cage Clamp:

Rated Voltage:

VDE: 500V EPIC® HBE 6 - 48
CSA: 600V EPIC® HBE 6 - 48

UL: 600V EPIC® HBE 6 - 48

Rated Current

VDE: 16A EPIC® HBE 6 - 48
CSA: 16A EPIC® HBE 6 - 48

UL: 16A EPIC® HBE 6 - 48

Pollution Level:

3

Dimensioning Transient:

6 kV

Termination Type:

Screw Termination:

mm² AWG
0.5 - 2.5 mm² 20 - 14

Crimp Termination:

0.5 - 4.0 mm² 20 - 12

Cage Clamp Termination:

0.5 - 2.5 mm² 20 - 14

Contacts:

Screw Termination:

Copper alloy, silver plated

Crimp Termination:

Copper alloy, silver plated/ gold plated

Cage Clamp Termination

Copper alloy, silver plated

Mating Cycles:

100 (higher mating cycles depending on the application)

Contact Resistance:

Screw Termination:

<2 mOhm

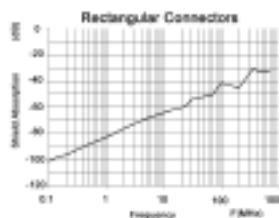
Crimp Termination:

<2 mOhm

Cage Clamp termination:

1.5 - 4 mOhm

Please note that terminal block inserts are available. Please see website.



For Panel Mount Base



For Surface Mount Base & Cable Coupler Hood

EMC PROTECTION

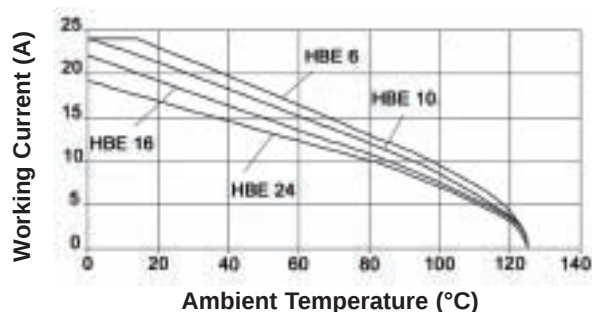
	PG/NPT	Metric
HBE 6 Panel Mount Base	70.3500	79.3500
HBE 6 Surface Mount & Cable Coupler Hood	70.3520	79.3520
HBE 10 Panel Mount Base	70.3501	79.3501
HBE 10 Surface Mount & Cable Coupler Hood	70.3521	79.3521
HBE 16 Panel Mount Base	70.3502	79.3502
HBE 16 Surface Mount & Cable Coupler Hood	70.3522	79.3522
HBE 24 Panel Mount Base	70.3503	79.3503
HBE 24 Surface Mount & Cable Coupler Hood	70.3523	79.3523

EPIC® CONNECTORS

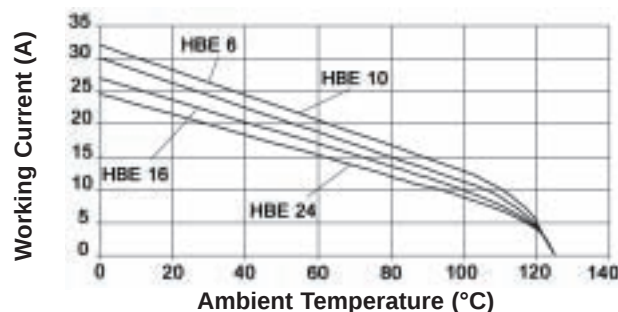
HBE Series

HBE INSERTS: DERATING CURVES

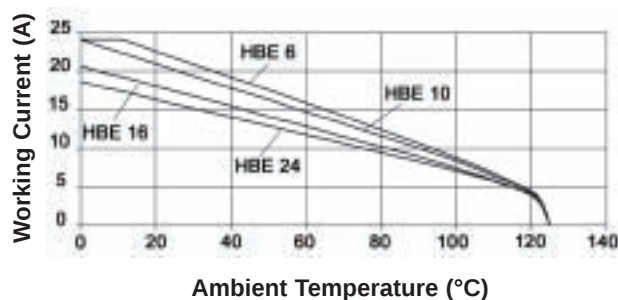
**HBE SCREW TERMINATED:
1.5 mm² (16 AWG)**



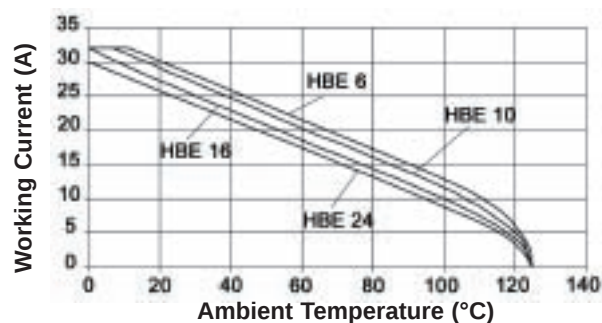
**HBE SCREW TERMINATED:
2.5 mm² (14 AWG)**



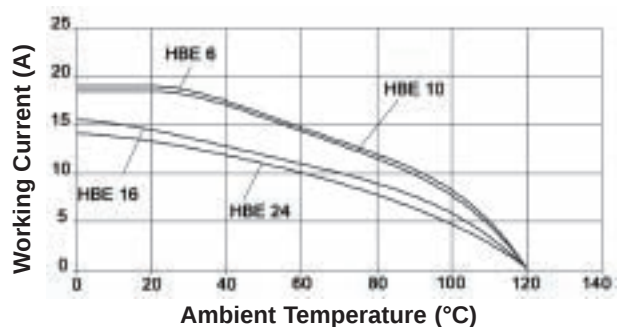
**HBE CRIMP TERMINATED:
1.5 mm² (16 AWG)**



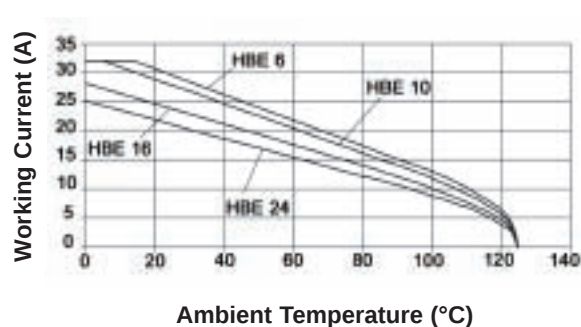
**HBE CRIMP TERMINATED:
2.5 mm² (14 AWG)**



**HBE CAGE CLAMP:
1.5 mm² (16 AWG)**



**HBE CAGE CLAMP:
2.5 mm² (14 AWG)**



EPIC® CONNECTORS

HBE Housings: Technical Data

Specifications:	DIN 43652
Temperature Range:	-40°C to +125°C
Protection class:	NEMA 4, IP65
Material:	HBE 6 - 48: aluminum alloy, powder coated

STANDARD GREY COATING (NEMA 4)

PG



NPT



METRIC



HBE 6- 48: aluminum alloy, powder coated (grey), locking levers and bolts made of zinc plated steel.

For industrial applications in demanding environments.

EP BLACK COATING (NEMA 4X)

PG



NPT



METRIC

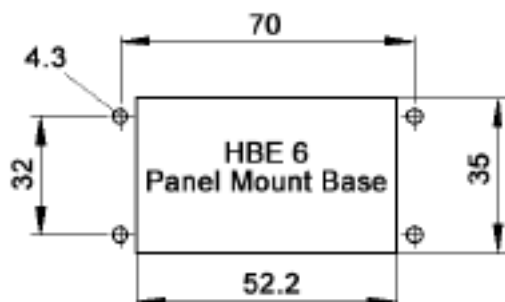


HBE 6 - 48 EP: Environmentally Protected: aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.

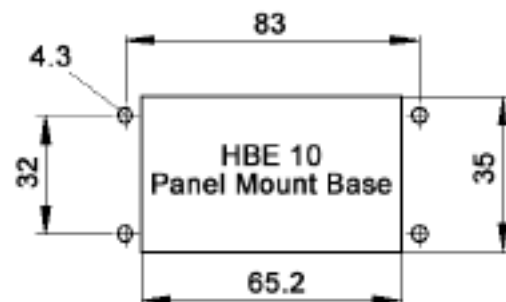
For industrial applications in extremely demanding environments with aggressive atmospheres.

EPIC® CONNECTORS

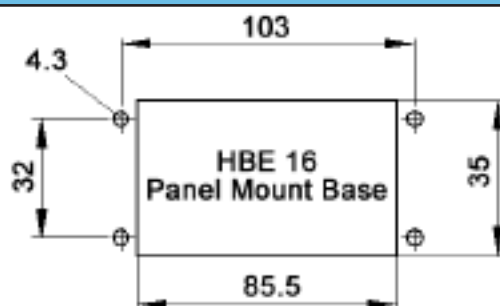
HBE Panel Cut-Outs for Panel Mount Bases



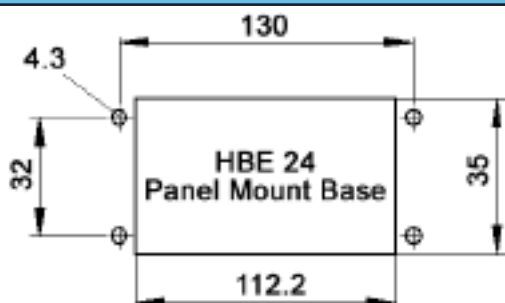
Fits the following plugs & receptacles:
HBE 6, HDD 24, HEE 10, and 2 Module Frames.



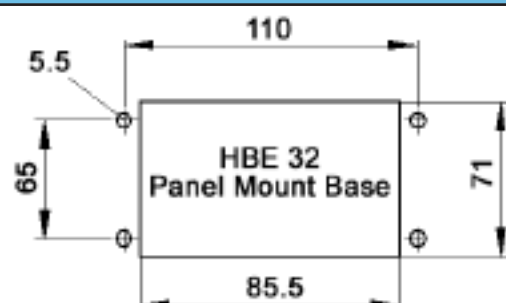
Fits the following plugs & receptacles: HBE 10,
HBVE 3, HDD 42, HEE 18 and 3 Module Frames.



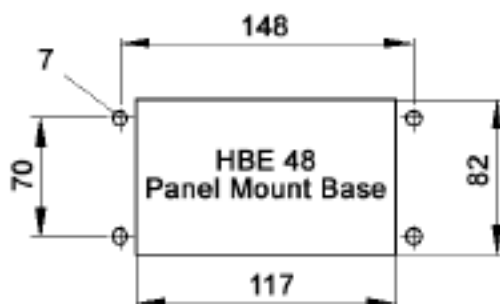
Fits the following plugs & receptacles: HBE 16, HBS 6, HBVE 6, HD 40,
HDD 72, HEE 32, 5 Module Frames, 4 Pwr/0 Sgl, and 4 Pwr/2 Sgl.



Fits the following plugs & receptacles: HBE 24, HBVE 10,
HD 64, HDD 108, HEE 46, 7 Module Frame, and 4 Pwr/8 Sgl.



Fits the following plugs & receptacles: HBE 32, HBS
12, HD 80, HDD 144, HEE 64, and 10 Module Frames.



Fits the following plugs & receptacles: HBE 48, HD
128, HDD 216, HEE 92, and 14 Module Frames.

All dimensions are in mm.

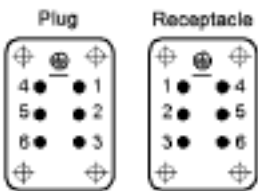


SCREW & CRIMP TERMINATED INSERTS

SCREW TERMINATED

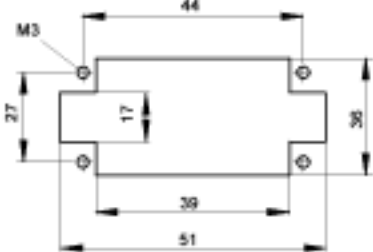
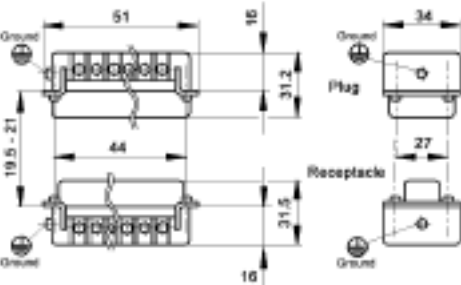
View from Cable Side

CRIMP TERMINATED

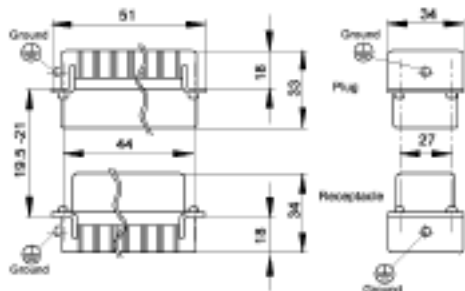


Panel Cut-Out
(Insert Only)

Contacts Sold Separately



All dimensions are in mm.



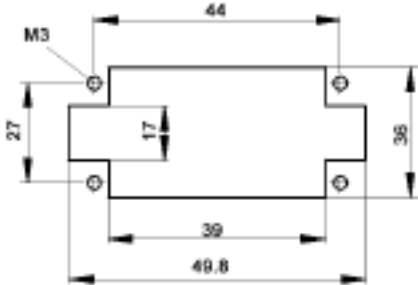
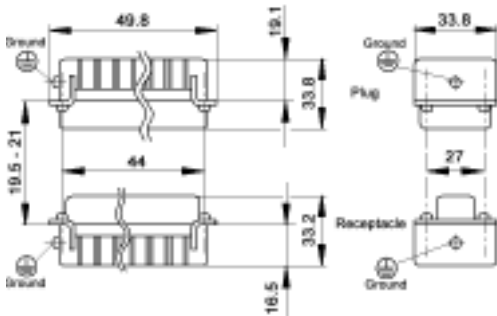
These inserts fit in the HBE 6 Series Housings.

	Plug	Receptacle
Screw Terminated with wire protection	10.1900	10.1910
Screw Terminated without wire protection	10.1901	10.1911
Crimp Terminated: Machine	10.1800	10.1810

Crimp Contacts are on the next page.

SCREWLESS SPRING CAGE CLAMP INSERTS

Panel Cut-Out
(Insert Only)



Same View from Cable Side as Screw & Crimp Termination

These inserts fit in the HBE 6 Series Housings.

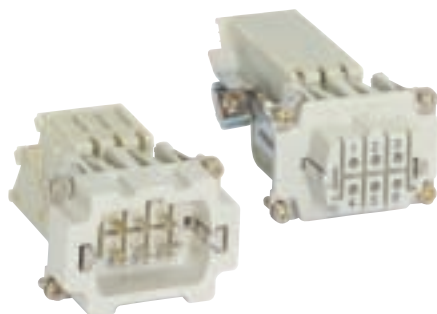
	Plug	Receptacle
Screwless Cage Clamp	10.4000	10.4010

All dimensions are in mm.

EPIC® CONNECTORS

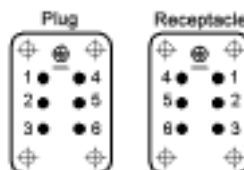
Accessories for Crimp Terminated Inserts

SCREW TERMINATED TERMINAL BLOCK INSERTS

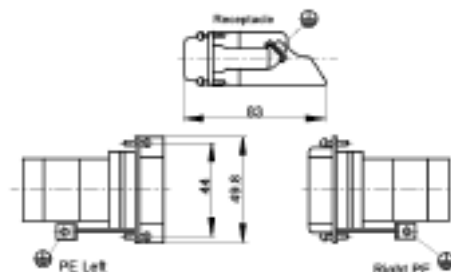


These terminal block inserts only fit in HBE 6 panel mount bases

View from Cable Side



All dimensions are in mm.



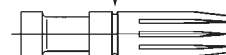
One terminal block insert mates with one screw terminated insert.

	Receptacle
Terminal Block: Right Ground	70.3111
Terminal Block: Left Ground	70.3101

MACHINED CONTACTS: DIAMETER 2.5 MM²



Marking Track



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS

Wire Gauge: 0.5 - 4.0 mm² for the HBE Crimp Inserts



Locator
11.1472



Crimp Tool
11.1470



Crimp Dies
11.1471

For removal of contacts use a slotted screwdriver. No special tool is necessary.

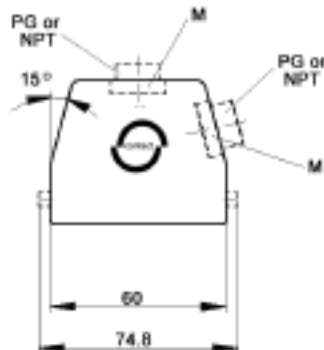
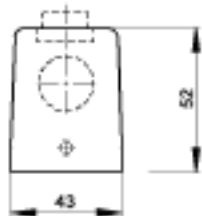
Please note that the crimp range for this tool is 0.14 to 2.5 mm² (AWG 26 - 14) with the appropriate crimp dies.

EPIC® CONNECTORS

HBE 6 Housings: Single Lever on Base

HOODS

TOP ENTRY



SIDE ENTRY



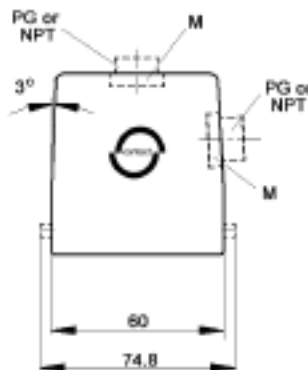
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	13.5	1/2"	20	10.0110	10.0110 NP	19.0110	70.0216	70.0216 NP	79.0216
	16	1/2"	25	10.0210	10.0210 NP	19.0210	70.0210	70.0210 NP	79.0210
Side Entry	13.5	1/2"	20	10.0120	10.0120 NP	19.0120	70.0236	70.0236 NP	79.0236
	16	1/2"	25	10.0220	10.0220 NP	19.0220	70.0230	70.0230 NP	79.0230

Top Entry metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

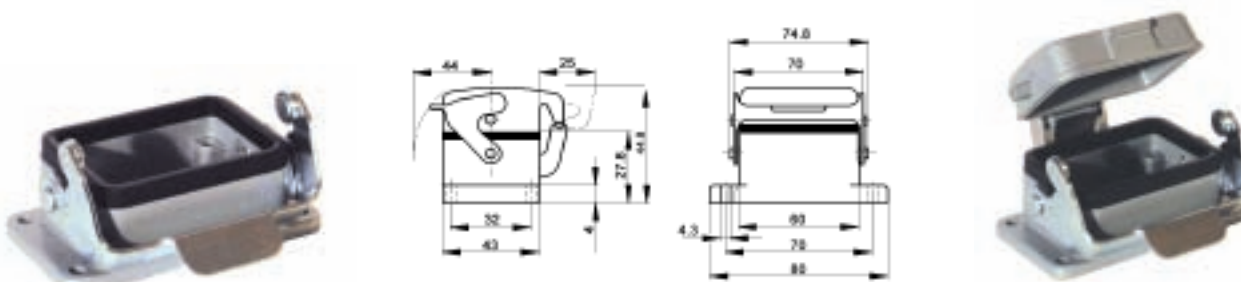
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.0202	70.0202 NP	79.0202	70.0212	70.0212 NP	79.0212
	29	1"	32	70.0204	70.0204 NP	79.0204	70.0214	70.0214 NP	79.0214
Side Entry	21	3/4"	25	70.0222	70.0222 NP	79.0222	70.0232	70.0232 NP	79.0232
	29	1"	32	70.0224	70.0224 NP	79.0224	70.0234	70.0234 NP	79.0234

Top Entry metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 6 Housings: Single Lever on Base

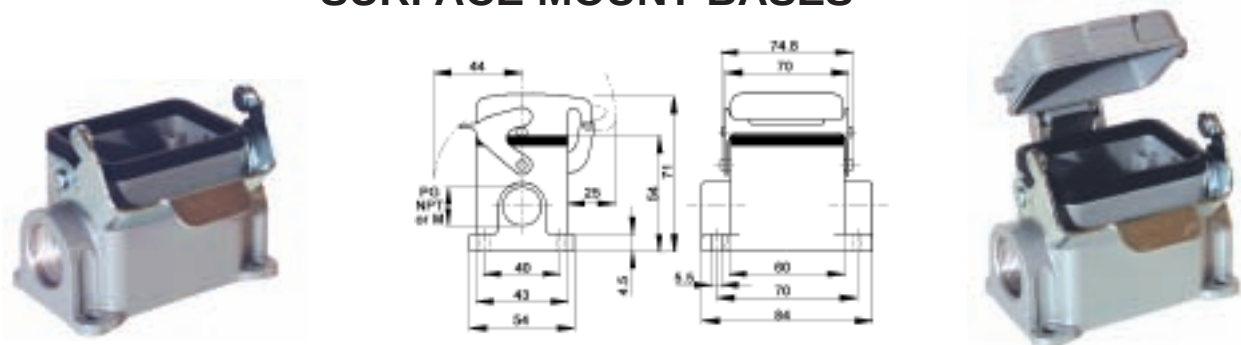
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.0030	70.0025
Panel Mount with Dust Cover	10.0040	70.0045

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	16	1/2"	20	10.0060	10.0060	NP 19.0060	70.0080	70.0080	NP 79.0080
	-	-	25	-	-	79.0066	-	-	79.0086
1 Entry	16	1/2"	20	10.0050	10.0050	NP 19.0050	70.0070	70.0070	NP 79.0070
	-	-	25	-	-	79.0056	-	-	79.0076
2 Entries with dust cover	16	1/2"	20	10.0090	10.0090	NP 19.0090	70.0180	70.0180	NP 79.0180
	-	-	25	-	-	79.0166	-	-	79.0186
1 Entry with dust cover	16	1/2"	20	10.0070	10.0070	NP 19.0070	70.0170	70.0170	NP 79.0170
	-	-	25	-	-	79.0156	-	-	79.0176

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

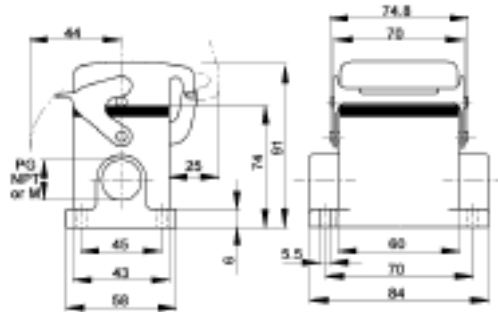
Temperature: -40°C to 125°C

	Part #
Dust cover with single lever and gasket for HBE 6 Hoods	10.0165
Dust cover with single lever bolts for HBE 6 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0150

EPIC® CONNECTORS

HBE 6 Housings: Single Lever on Base

HIGH PROFILE SURFACE MOUNT BASES



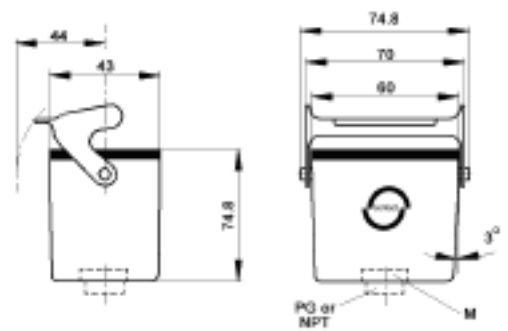
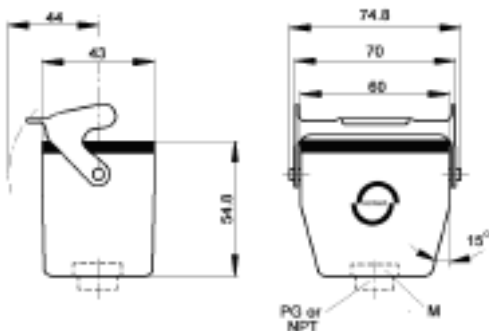
All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.0062	70.0062 NP	79.0062	70.0082	70.0082 NP	79.0082
	29	1"	32	70.0064	70.0064 NP	79.0064	70.0084	70.0084 NP	79.0084
1 Entry	21	3/4"	25	70.0052	70.0052 NP	79.0052	70.0072	70.0072 NP	79.0072
	29	1"	32	70.0054	70.0054 NP	79.0054	70.0074	70.0074 NP	79.0074
2 Entries with dust cover	21	3/4"	25	70.0162	70.0162 NP	79.0162	70.0182	70.0182 NP	79.0182
	29	1"	32	70.0164	70.0164 NP	79.0164	70.0184	70.0184 NP	79.0184
1 Entry with dust cover	21	3/4"	25	70.0152	70.0152 NP	79.0152	70.0172	70.0172 NP	79.0172
	29	1"	32	70.0154	70.0154 NP	79.0154	70.0174	70.0174 NP	79.0174

CABLE COUPLER HOODS

STANDARD PROFILE

HIGH PROFILE



Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	13.5	1/2"	20	10.0140	10.0140 NP	19.0140	-	-	79.0110
	16	1/2"	25	10.0240	10.0240 NP	19.0240	70.0110	70.0110 NP	79.0116
High Profile	21	3/4"	25	70.0102	70.0102 NP	79.0102	70.0112	70.0112 NP	79.0112
	29	1"	32	70.0104	70.0104 NP	79.0104	70.0114	70.0114 NP	79.0114

Cable coupler metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 10 Plugs & Receptacles

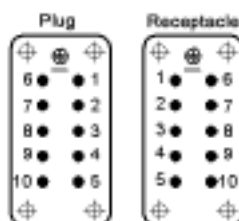


SCREW & CRIMP TERMINATED INSERTS

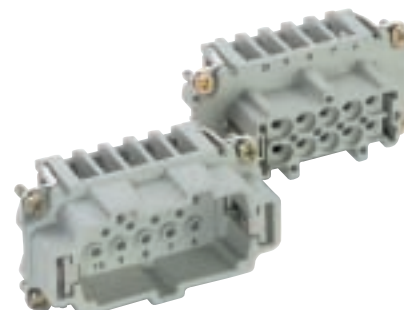
SCREW TERMINATED



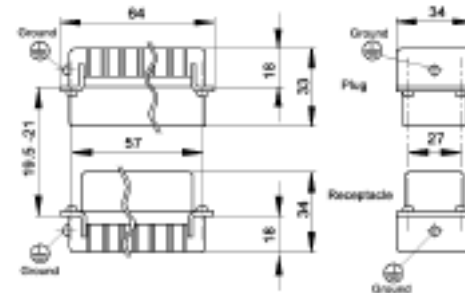
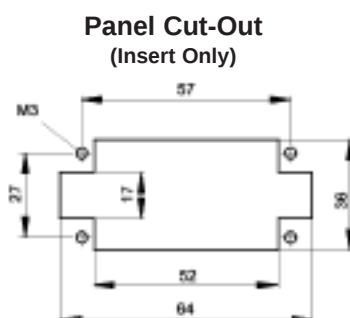
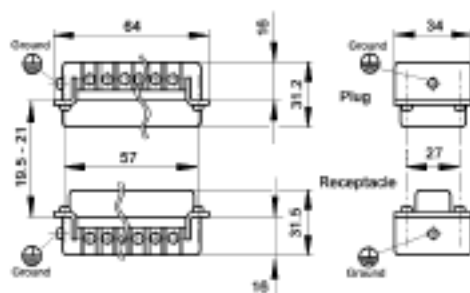
View from Cable Side



CRIMP TERMINATED



Contacts Sold Separately



All dimensions are in mm.

These inserts fit in the HBE 10 Series Housings.

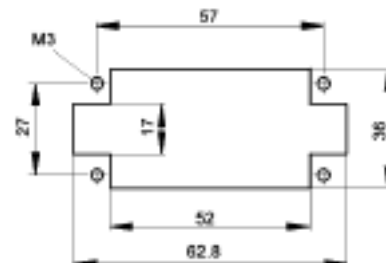
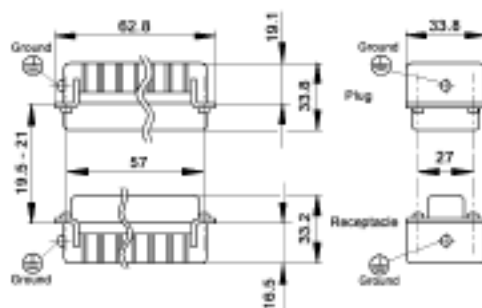
	Plug	Receptacle
Screw Terminated: with wire protection	10.1920	10.1930
Screw Terminated: without wire protection	10.1921	10.1931
Crimp Terminated: Machine	10.1820	10.1830

Crimp Contacts are on the next page.

SCREWLESS SPRING CAGE CLAMP INSERTS



Panel Cut-Out



All dimensions are in mm.

Same View from Cable Side as Screw & Crimp Termination

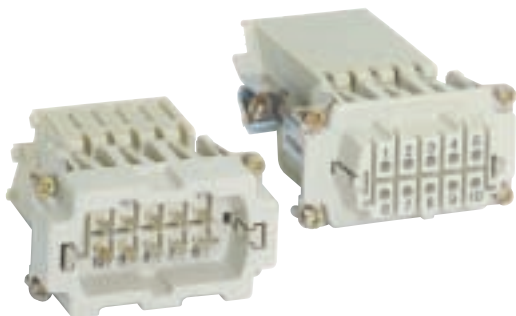
	Plug	Receptacle
Screwless Cage Clamp	10.4001	10.4011

These inserts fit in the HBE 10 Series Housings.

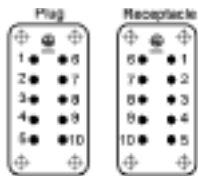
EPIC® CONNECTORS

Accessories for Crimp Terminated Inserts

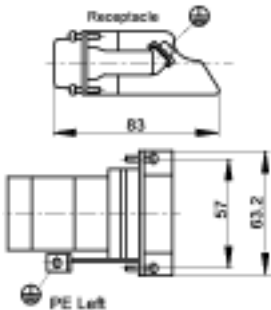
SCREW TERMINATED TERMINAL BLOCK INSERTS



View from Cable Side



All dimensions are in mm.

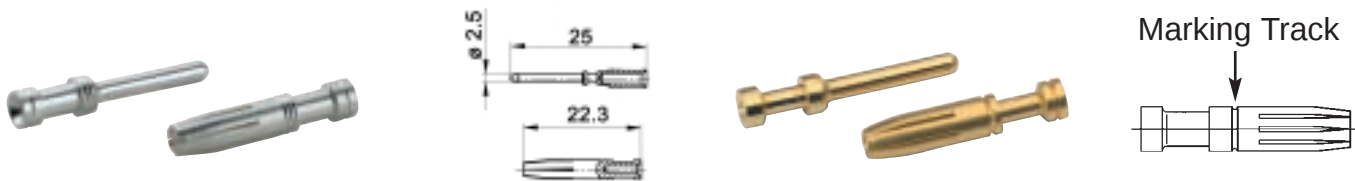


These terminal block inserts only fit in HBE 10 panel mount bases

	Receptacle
Terminal Block: Left Ground	70.3121

One terminal block insert mates with one screw terminated insert.

MACHINED CONTACTS: DIAMETER 2.5 MM²



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS

Wire Gauge: 0.5 - 4.0 mm² for the HBE Crimp Inserts



Locator
11.1472



Crimp Tool
11.1470



Crimp Dies
11.1471

For removal of contacts use a slotted screwdriver. No special tool is necessary.

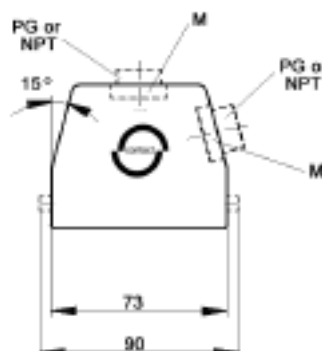
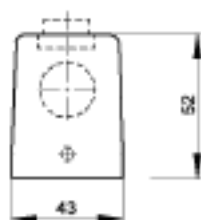
Please note that the crimp range for this tool is 0.14 to 2.5 mm² (AWG 26 - 14) with the appropriate crimp dies.

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base

HOODS

TOP ENTRY



SIDE ENTRY



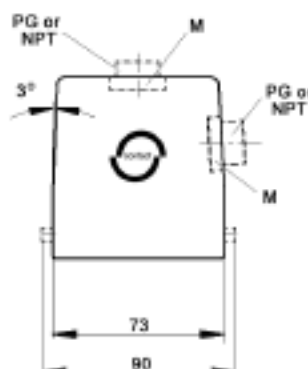
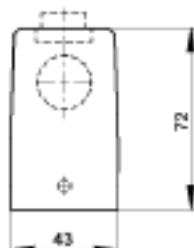
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	16	1/2"	20	10.0409	10.0409 NP	19.0409	70.0490	70.0490 NP	79.0490
	21	3/4"	25	10.0407	10.0407 NP	19.0407	70.0496	70.0496 NP	79.0496
Side Entry	16	1/2"	20	10.0429	10.0429 NP	19.0429	70.0590	70.0590 NP	79.0590
	21	3/4"	25	10.0428	10.0428 NP	19.0428	70.0596	70.0596 NP	79.0596

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

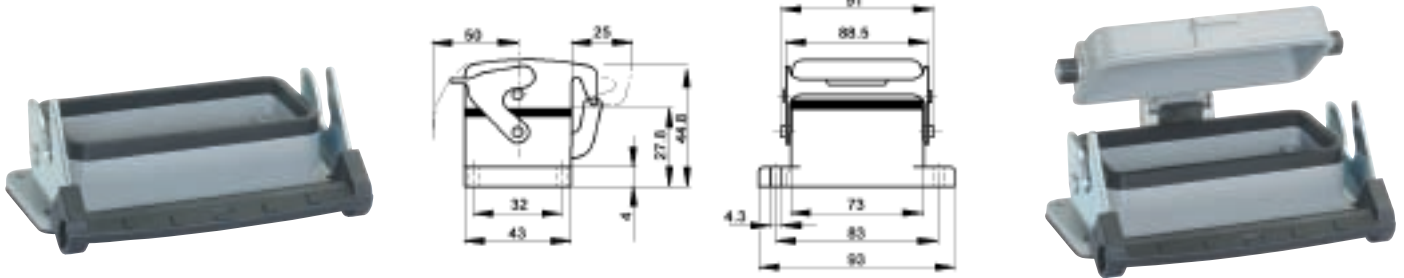
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.0442	70.0442 NP	79.0442	70.0492	70.0492 NP	79.0492
	29	1"	32	70.0444	70.0444 NP	79.0444	70.0494	70.0494 NP	79.0494
Side Entry	21	3/4"	25	70.0542	70.0542 NP	79.0542	70.0592	70.0592 NP	79.0592
	29	1"	32	70.0544	70.0544 NP	79.0544	70.0594	70.0594 NP	79.0594

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base

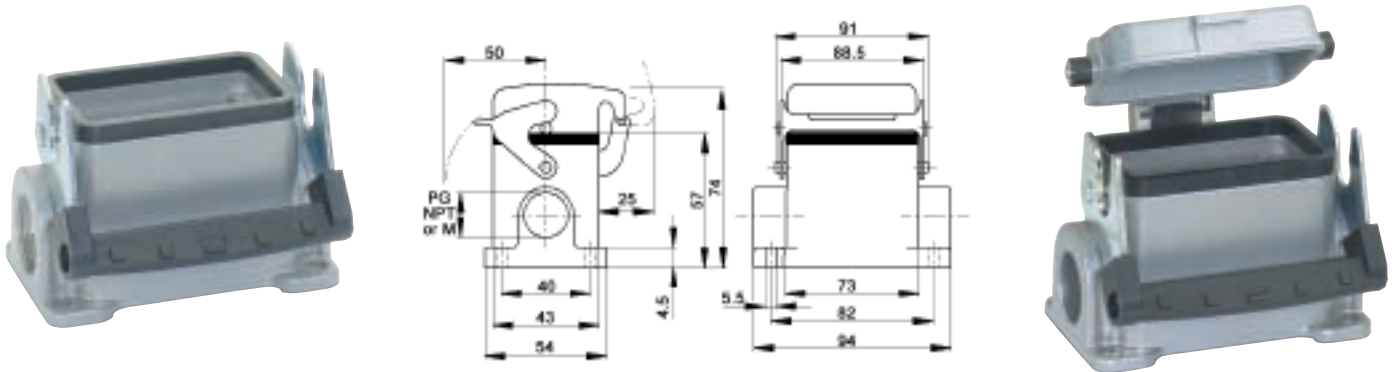
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.0329	70.0327
Panel Mount with Dust Cover	10.0339	70.0337

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	16	1/2"	20	10.0359	10.0359 NP	19.0359	70.0630	70.0630 NP	79.0630
			25	-	-	79.0616	-	-	79.0636
1 Entry	16	1/2"	20	10.0349	10.0349 NP	19.0349	70.0620	70.0620 NP	79.0620
	21	3/4"	25	10.0347	10.0347 NP	19.0347	-	-	79.0626
2 Entries with dust cover	16	1/2"	20	10.0389	10.0389 NP	19.0389	70.0670	70.0670 NP	79.0670
			25	-	-	79.0656	-	-	79.0676
1 Entry with dust cover	16	1/2"	20	10.0369	10.0369 NP	19.0369	70.0660	70.0660 NP	79.0660
			25	-	-	79.0646	-	-	79.0666

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

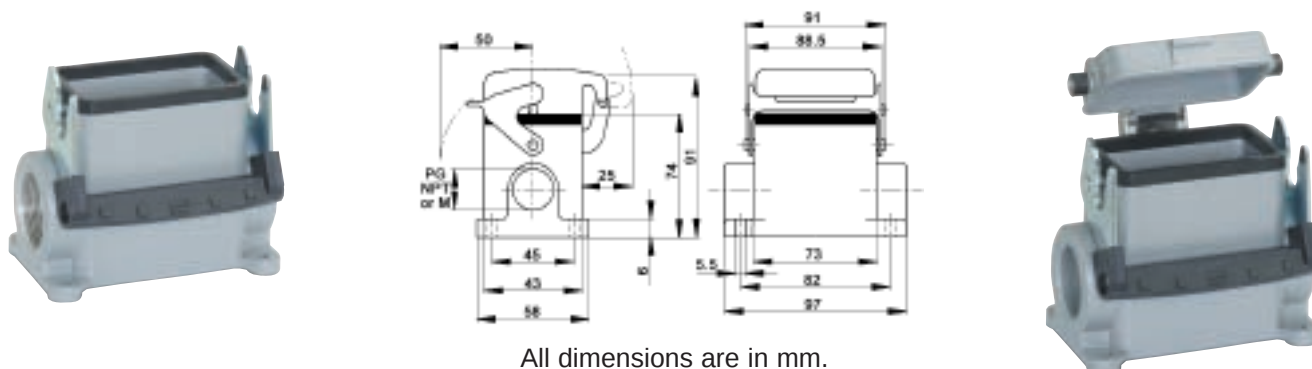
Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 10 Hoods	10.0486
Dust cover with single lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0487

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base

HIGH PROFILE SURFACE MOUNT BASES

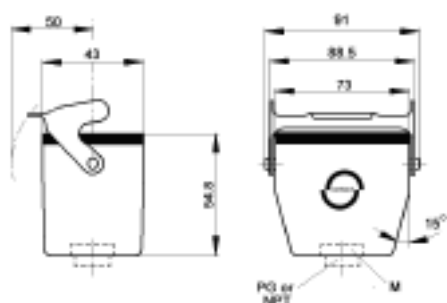


All dimensions are in mm.

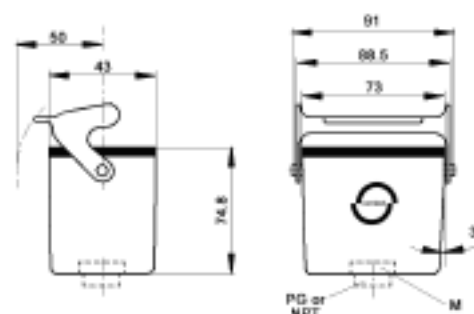
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.0612	70.0612 NP	79.0612	70.0632	70.0632 NP	79.0632
	29	1"	32	70.0614	70.0614 NP	79.0614	70.0634	70.0634 NP	79.0634
1 Entry	21	3/4"	25	70.0602	70.0602 NP	79.0602	70.0622	70.0622 NP	79.0622
	29	1"	32	70.0604	70.0604 NP	79.0604	70.0624	70.0624 NP	79.0624
2 Entries with dust cover	21	3/4"	25	70.0652	70.0652 NP	79.0652	70.0672	70.0672 NP	79.0672
	29	1"	32	70.0654	70.0654 NP	79.0654	70.0674	70.0674 NP	79.0674
1 Entry with dust cover	21	3/4"	25	70.0642	70.0642 NP	79.0642	70.0662	70.0662 NP	79.0662
	29	1"	32	70.0644	70.0644 NP	79.0644	70.0664	70.0664 NP	79.0664

CABLE COUPLER HOODS

STANDARD PROFILE



HIGH PROFILE



Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	16	1/2"	20	10.0469	10.0469 NP	19.0469	70.0430	70.0430 NP	79.0430
	21	3/4"	25	70.0422	70.0422 NP	79.0422	70.0432	70.0432 NP	79.0432
High Profile	21	3/4"	25	70.0424	70.0424 NP	79.0424	70.0434	70.0434 NP	79.0434
	29	1"	32	70.0426	70.0426 NP	79.0426	70.0436	70.0436 NP	79.0436

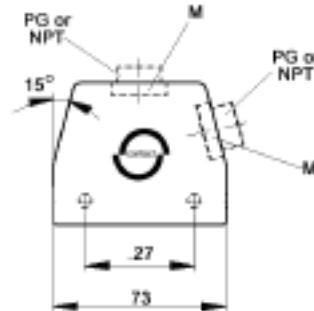
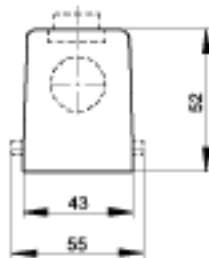
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Base

HOODS

TOP ENTRY



SIDE ENTRY



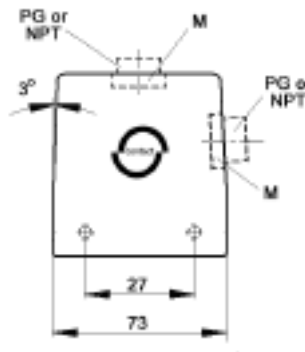
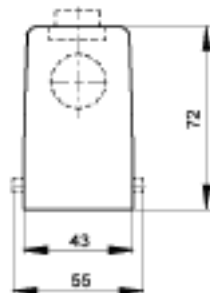
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	16	1/2"	20	10.0400	10.0400 NP	19.0400	70.0510	70.0510 NP	79.0510
	21	3/4"	25	10.0401	10.0401 NP	19.0401	70.0512	70.0512 NP	79.0512
Side Entry	16	1/2"	20	10.0420	10.0420 NP	19.0420	70.0530	70.0530 NP	79.0530
	21	3/4"	25	10.0421	10.0421 NP	19.0421	70.0532	70.0532 NP	79.0532

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

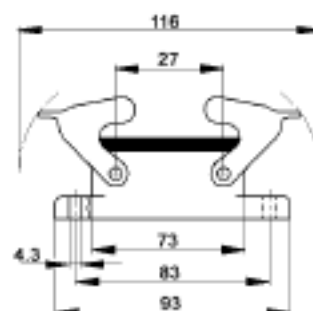
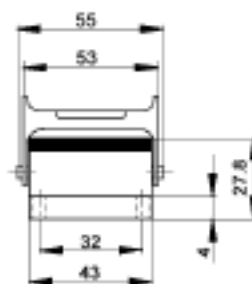
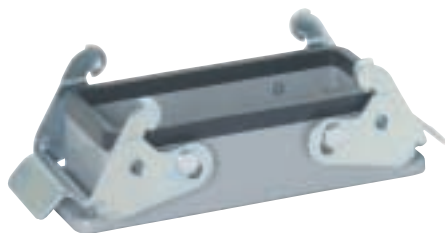
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.0504	70.0504 NP	79.0504	70.0514	70.0514 NP	79.0514
	29	1"	32	70.0506	70.0506 NP	79.0506	70.0516	70.0516 NP	79.0516
Side Entry	21	3/4"	25	70.0524	70.0524 NP	79.0524	70.0534	70.0534 NP	79.0534
	29	1"	32	70.0526	70.0526 NP	79.0526	70.0536	70.0536 NP	79.0536

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Base

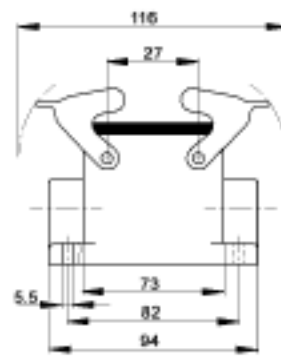
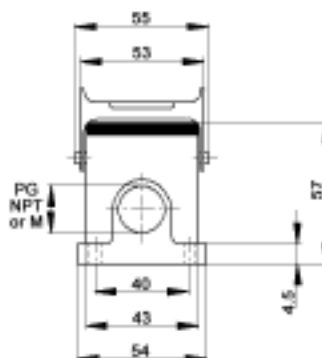
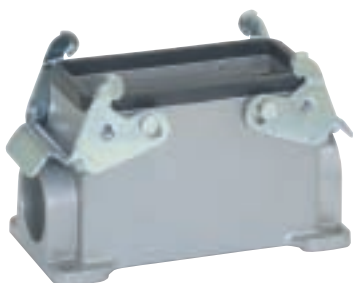
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.0320	70.0325

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	16	1/2"	20	10.0350	10.0350 NP	19.0350	70.0380	70.0380 NP	79.0380
without cover	-	-	25	-	-	19.0351	-	-	79.0386
1 Entry	16	1/2"	20	10.0340	10.0340 NP	19.0340	70.0370	70.0370 NP	79.0370
without cover	-	-	25	-	-	19.0341	-	-	79.0376

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

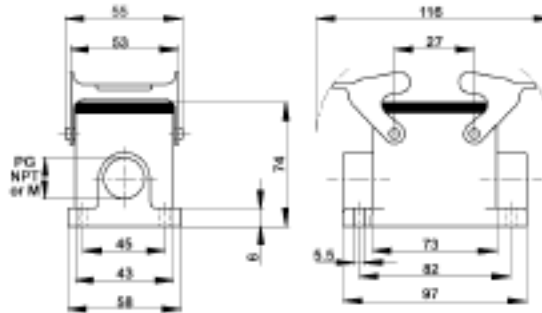
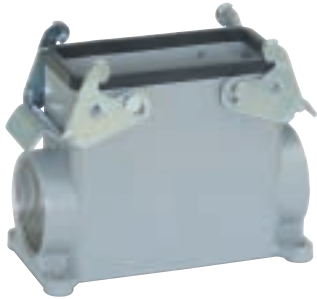
Temperature: -40°C to 125°C

	Part #
Dust cover with double levers and gasket for HBE 10 Hoods	10.0485
Dust cover with double lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0470
Dust cover with double lever bolts and gasket for HBE 10 Hoods	10.0471

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Base

HIGH PROFILE SURFACE MOUNT BASES



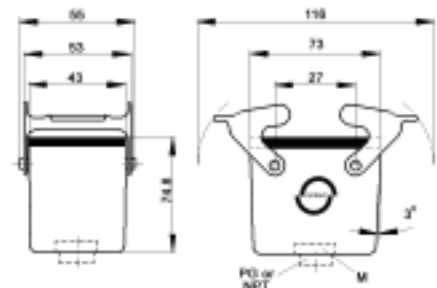
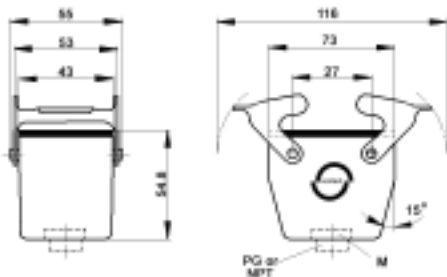
All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.0362	70.0362 NP	79.0362	70.0382	70.0382 NP	79.0382
without cover	29	1"	32	70.0364	70.0364 NP	79.0364	70.0384	70.0384 NP	79.0384
1 Entry	21	3/4"	25	70.0352	70.0352 NP	79.0352	70.0372	70.0372 NP	79.0372
without cover	29	1"	32	70.0354	70.0354 NP	79.0354	70.0374	70.0374 NP	79.0374

CABLE COUPLER HOODS

STANDARD PROFILE

HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	16	1/2"	20	10.0460	10.0460 NP	19.0460	70.0410	70.0410 NP	79.0410
	21	3/4"	25	70.0402	70.0402 NP	79.0402	70.0412	70.0412 NP	79.0412
High Profile	21	3/4"	25	70.0404	70.0404 NP	79.0404	70.0414	70.0414 NP	79.0414
	29	1"	32	70.0406	70.0406 NP	79.0406	70.0416	70.0416 NP	79.0416

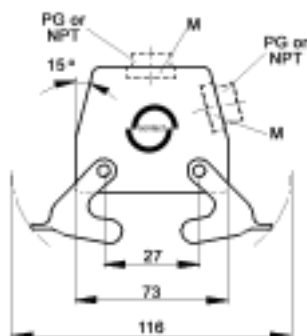
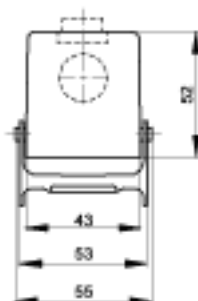
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Hood

HOODS

TOP ENTRY



SIDE ENTRY



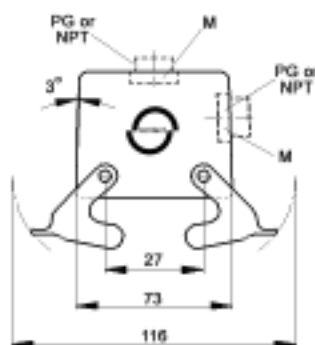
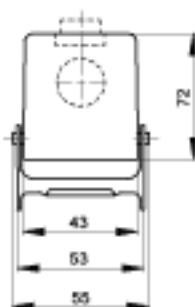
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	16	1/2"	20	10.0410	10.0410 NP	19.0410	70.0560	70.0560 NP	79.0560
	-	-	25	-	-	79.0557	-	-	79.0566
Side Entry	16	1/2"	20	10.0450	10.0450 NP	19.0450	70.0580	70.0580 NP	79.0580
	-	-	25	-	-	79.0577	-	-	79.0586

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

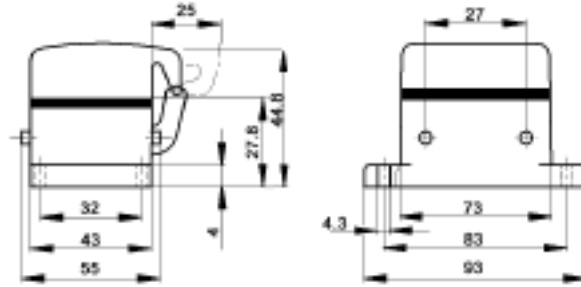
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.0552	70.0552 NP	79.0552	70.0562	70.0562 NP	79.0562
	29	1"	32	70.0554	70.0554 NP	79.0554	70.0564	70.0564 NP	79.0564
Side Entry	21	3/4"	25	70.0572	70.0572 NP	79.0572	70.0582	70.0582 NP	79.0582
	29	1"	32	70.0574	70.0574 NP	79.0574	70.0584	70.0584 NP	79.0584

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Hood

PANEL MOUNT BASES

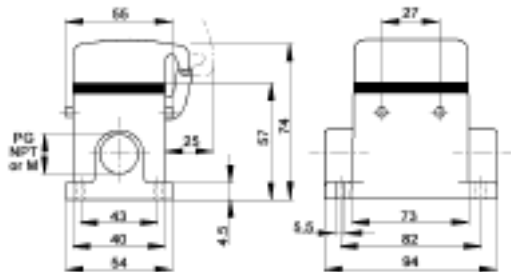


All dimensions are in mm.

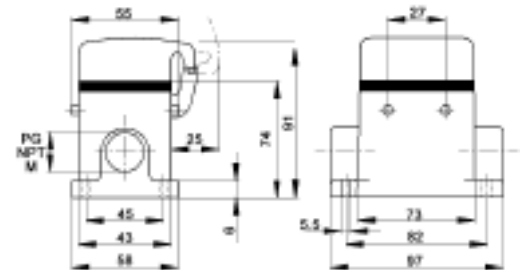
Description	Standard Grey Coating	Black Coating (EP)
Panel Mount with Dust Cover	10.0330	70.0335

SURFACE MOUNT BASES

STANDARD PROFILE



HIGH PROFILE



All dimensions are in mm.

STANDARD PROFILE

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries with Dust Cover	16	1/2"	20	10.0380	10.0380 NP	19.0380	70.0480	70.0480 NP	79.0480
	-	-	25	-	-	79.0466	-	-	79.0486
1 Entry with Dust Cover	16	1/2"	20	10.0360	10.0360 NP	19.0360	70.0470	70.0470 NP	79.0470
	-	-	25	-	-	19.0361	-	-	79.0476

HIGH PROFILE

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries with Dust Cover	21	3/4"	25	70.0462	70.0462 NP	79.0462	70.0482	70.0482 NP	79.0482
	29	1"	32	70.0464	70.0464 NP	79.0464	70.0484	70.0484 NP	79.0484
1 Entry with Dust Cover	21	3/4"	25	70.0452	70.0452 NP	79.0452	70.0472	70.0472 NP	79.0472
	29	1"	32	70.0454	70.0454 NP	79.0454	70.0474	70.0474 NP	79.0474

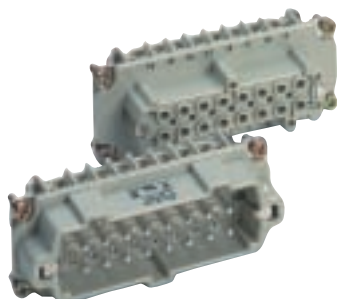
EPIC® CONNECTORS

HBE 16 Plugs & Receptacles

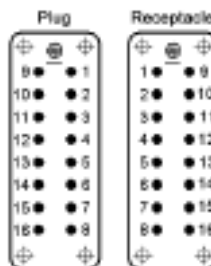


SCREW & CRIMP TERMINATED INSERTS

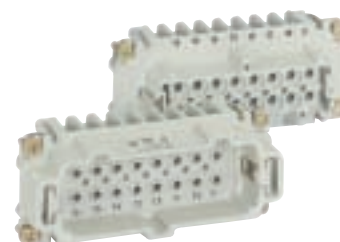
SCREW TERMINATED



View from Cable Side

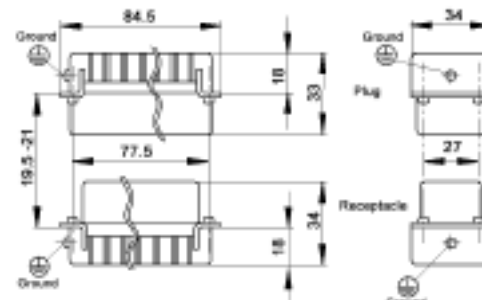
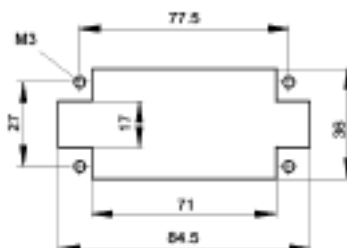
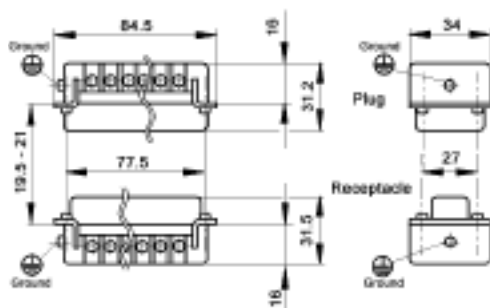


CRIMP TERMINATED



Panel Cut-Out
(Insert Only)

Contacts Sold Separately



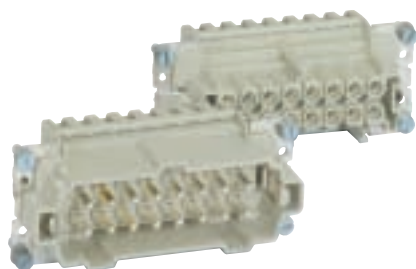
All dimensions are in mm.

These inserts fit
in the HBE 16
Series Housings.

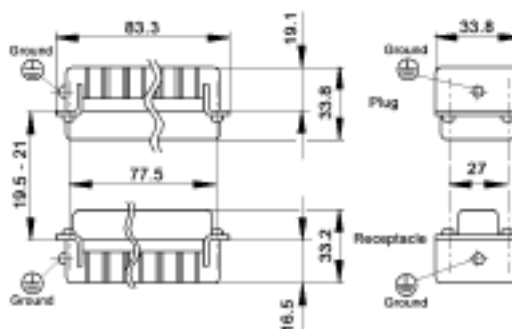
	Plug	Receptacle
Screw Terminated: with wire protection	10.1940	10.1950
Screw Terminated: without wire protection	10.1941	10.1951
Crimp Terminated: Machine	10.1840	10.1850

Crimp
Contacts are
on the next
page.

SCREWLESS SPRING CAGE CLAMP INSERTS



Panel Cut-Out
(Insert Only)



All dimensions are in mm.

Same View from
Cable Side as
Screw & Crimp
Termination

	Plug	Receptacle
Screwless Cage Clamp	10.4002	10.4012

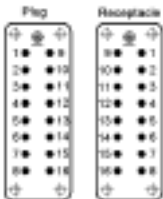
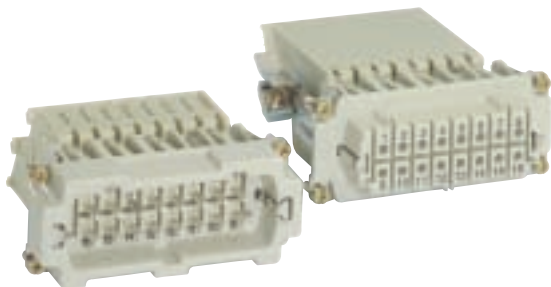
These inserts
fit in the HBE
16 Series
Housings.

EPIC® CONNECTORS

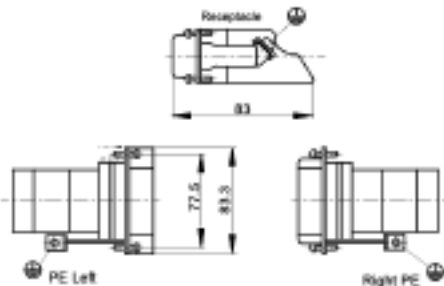
Accessories for Crimp Terminated Inserts

SCREW TERMINATED TERMINAL BLOCK INSERTS

View from Cable Side



All dimensions are in mm.

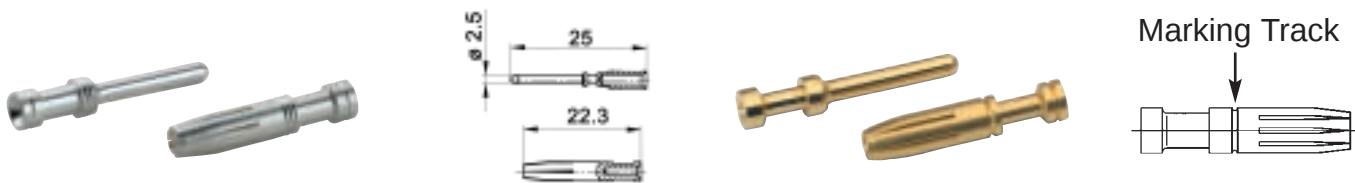


These terminal block inserts only fit in HBE 16 panel mount bases

	Receptacle
Terminal Block: Right Ground	70.3151
Terminal Block: Left Ground	70.3141

One terminal block insert mates with one screw terminated insert.

MACHINED CONTACTS: DIAMETER 2.5 MM²



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS

Wire Gauge: 0.5 - 4.0 mm² for the HBE Crimp Inserts



Locator
11.1472



Crimp Tool
11.1470



Crimp Dies
11.1471

For removal of contacts use a slotted screwdriver. No special tool is necessary.

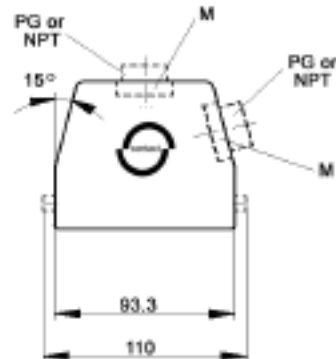
Please note that the crimp range for this tool is 0.14 to 2.5 mm² (AWG 26 - 14) with the appropriate crimp dies.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base

HOODS

TOP ENTRY



SIDE ENTRY



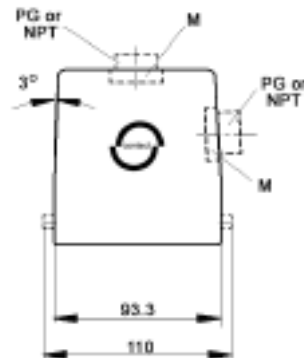
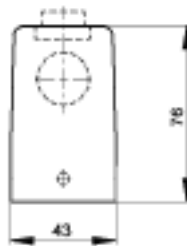
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.0809	10.0809 NP	19.0809	70.0990	70.0990 NP	79.0990
	29	1"	32	10.0909	10.0909 NP	19.0909	-	-	-
Side Entry	21	3/4"	25	10.0829	10.0829 NP	19.0829	70.1090	70.1090 NP	79.1090
	29	1"	32	10.0929	10.0929 NP	19.0929	-	-	-

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

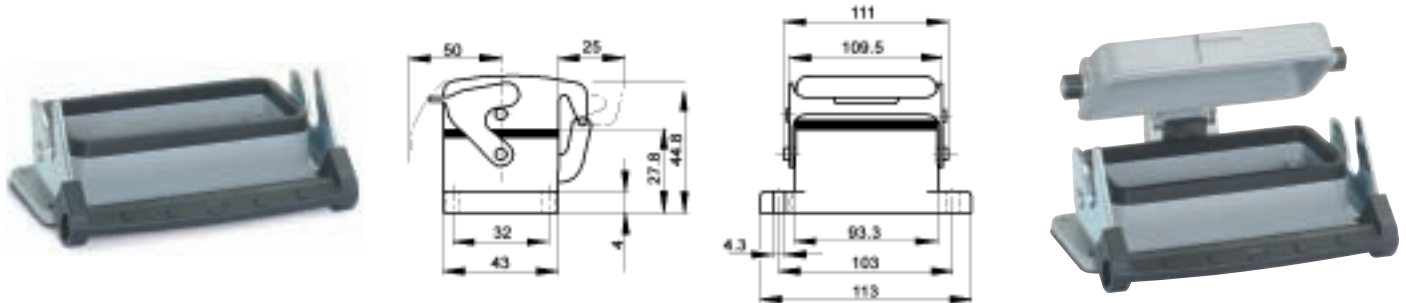
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.0942	70.0942 NP	79.0942	70.0992	70.0992 NP	79.0992
	29	1"	32	70.0944	70.0944 NP	79.0944	70.0994	70.0994 NP	79.0994
	-	-	40	-	-	79.0946	-	-	-
Side Entry	21	3/4"	25	70.1042	70.1042 NP	79.1042	70.1092	70.1092 NP	79.1092
	29	1"	32	70.1044	70.1044 NP	79.1044	70.1094	70.1094 NP	79.1094
	-	-	40	-	-	79.1048	-	-	-

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base

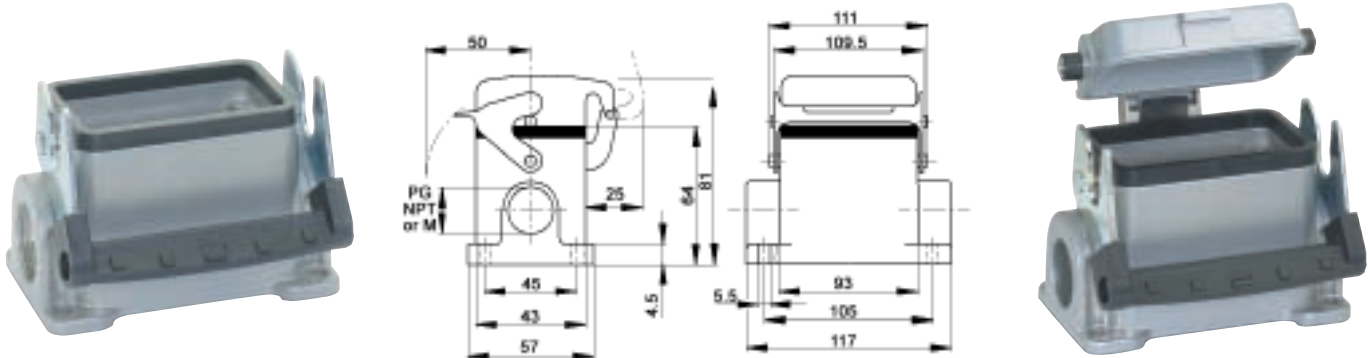
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.0729	70.0827
Panel Mount with Dust Cover	10.0739	70.0837

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	10.0759	10.0759 NP	19.0759	70.1130	70.1130 NP	79.1130
1 Entry	21	3/4"	25	10.0749	10.0749 NP	19.0749	70.1120	70.1120 NP	79.1120
2 Entries with dust cover	-	-	-	-	-	-	-	-	-
1 Entry with dust cover	21	3/4"	25	10.0769	10.0769 NP	19.0769	70.1160	70.1160 NP	79.1160

DUST COVERS WITH ATTACHMENT STRING

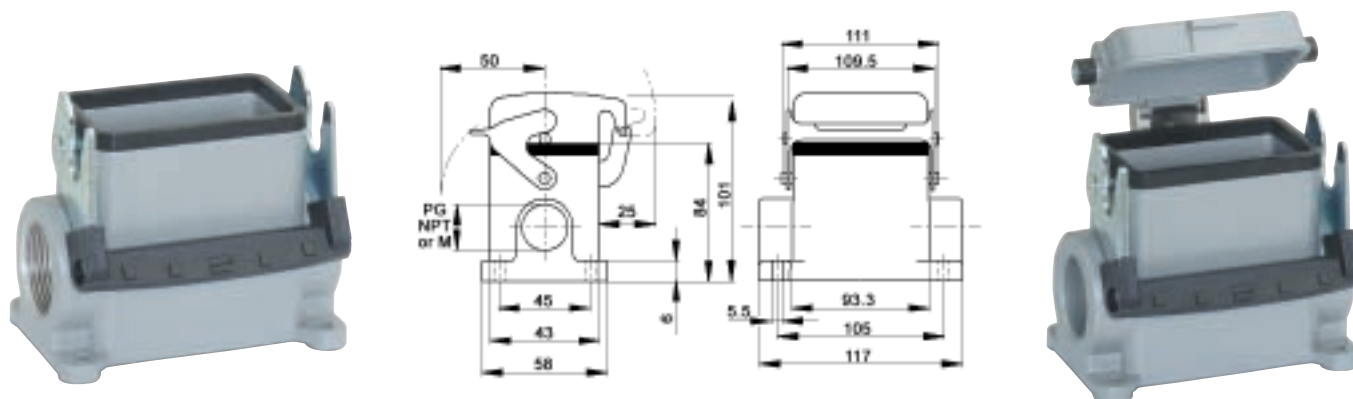


Material:	Thermoplastic Resin	Temperature:	-40°C to 125°C
			Part #
Dust cover with single lever for HBE 16 Hoods			10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood			10.0887

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base

HIGH PROFILE SURFACE MOUNT BASES

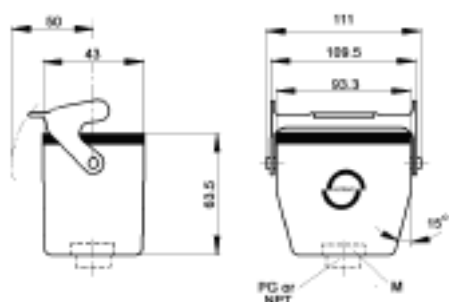


All dimensions are in mm.

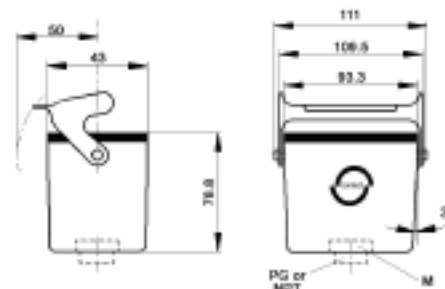
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.1112	70.1112 NP	79.1112	70.1132	70.1132 NP	79.1132
	29	1"	32	70.1114	70.1114 NP	79.1114	70.1134	70.1134 NP	79.1134
1 Entry	21	3/4"	25	70.1102	70.1102 NP	79.1102	70.1122	70.1122 NP	79.1122
	29	1"	32	70.1104	70.1104 NP	79.1104	70.1124	70.1124 NP	79.1124
2 Entries with dust cover	21	3/4"	25	70.1152	70.1152 NP	79.1152	70.1172	70.1172 NP	79.1172
	29	1"	32	70.1154	70.1154 NP	79.1154	70.1174	70.1174 NP	79.1174
1 Entry with dust cover	21	3/4"	25	70.1142	70.1142 NP	79.1142	70.1162	70.1162 NP	79.1162
	29	1"	32	70.1144	70.1144 NP	79.1144	70.1164	70.1164 NP	79.1164

CABLE COUPLER HOODS

STANDARD PROFILE



HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	21	3/4"	25	10.0869	10.0869 NP	19.0869	70.0930	70.0930 NP	79.0930
	29	1"	32	10.0969	10.0969 NP	19.0969	-	-	-
High Profile	21	3/4"	25	70.0922	70.0922 NP	79.0922	70.0932	70.0932 NP	79.0932
	29	1"	32	70.0924	70.0924 NP	79.0924	70.0934	70.0934 NP	79.0934

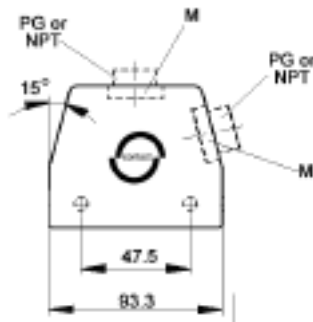
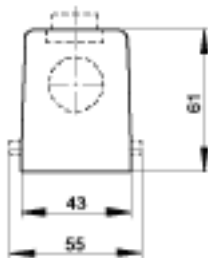
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base

HOODS

TOP ENTRY



SIDE ENTRY



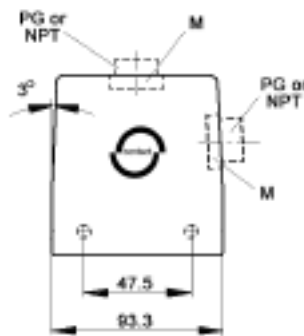
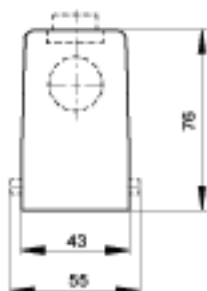
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.0800	10.0800 NP	19.0800	70.1010	70.1010 NP	79.1010
	29	1"	32	10.0900	10.0900 NP	19.0900	-	-	-
Side Entry	21	3/4"	25	10.0820	10.0820 NP	19.0820	70.1030	70.1030 NP	79.1030
	29	1"	32	10.0920	10.0920 NP	19.0920	-	-	-

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

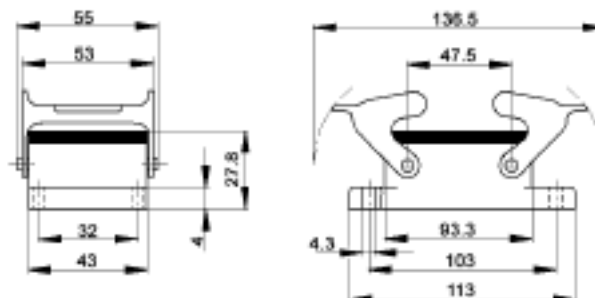
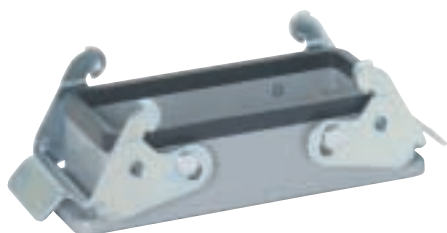
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.1002	70.1002 NP	79.1002	70.1012	70.1012 NP	79.1012
	29	1"	32	70.1004	70.1004 NP	79.1004	70.1014	70.1014 NP	79.1014
	-	-	40	-	-	79.1008	-	-	-
Side Entry	21	3/4"	25	70.1022	70.1022 NP	79.1022	70.1032	70.1032 NP	79.1032
	29	1"	32	70.1024	70.1024 NP	79.1024	70.1034	70.1034 NP	79.1034
	-	-	40	-	-	79.1028	-	-	-

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base

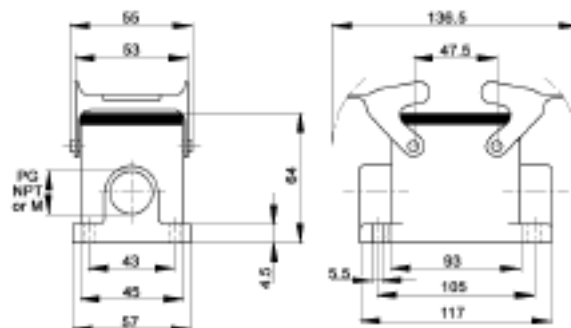
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	10.0750	10.0750 NP	19.0750	70.0880	70.0880 NP	79.0880
1 Entry	21	3/4"	25	10.0740	10.0740 NP	19.0740	70.0870	70.0870 NP	79.0870

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

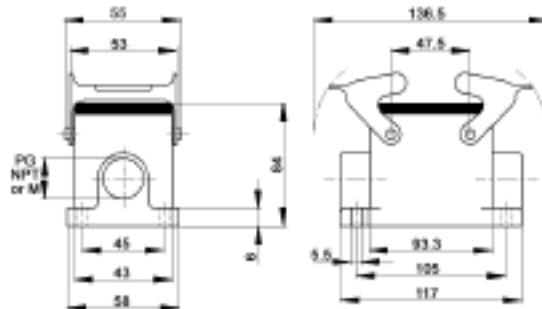
Temperature: -40°C to 125°C

	Part #
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0870

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base

HIGH PROFILE SURFACE MOUNT BASES

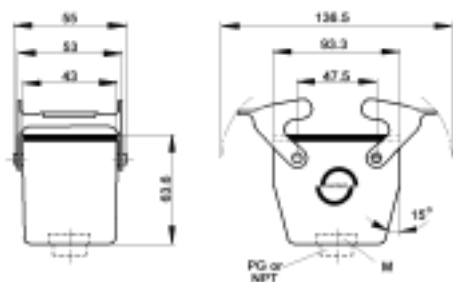


All dimensions are in mm.

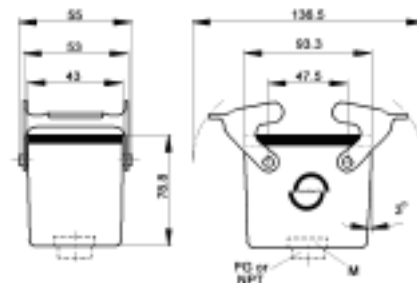
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.0862	70.0862 NP	79.0862	70.0882	70.0882 NP	79.0882
	29	1"	32	70.0864	70.0864 NP	79.0864	70.0884	70.0884 NP	79.0884
1 Entry	21	3/4"	25	70.0852	70.0852 NP	79.0852	70.0872	70.0872 NP	79.0872
	29	1"	32	70.0854	70.0854 NP	79.0854	70.0874	70.0874 NP	79.0874

CABLE COUPLER HOODS

STANDARD PROFILE



HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	21	3/4"	25	10.0860	10.0860 NP	19.0860	70.0910	70.0910 NP	79.0910
	29	1"	32	10.0960	10.0960 NP	-	-	-	-
High Profile	21	3/4"	25	70.0902	70.0902 NP	79.0902	70.0912	70.0912 NP	79.0912
	29	1"	32	70.0904	70.0904 NP	79.0904	70.0914	70.0914 NP	79.0914

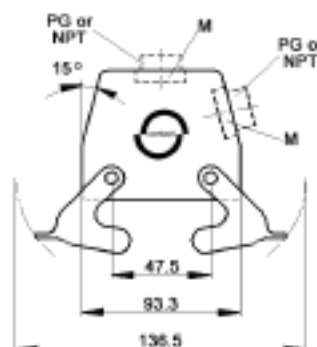
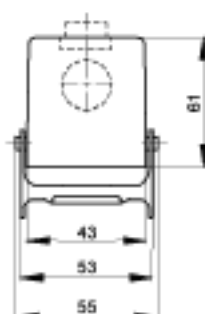
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood

HOODS

TOP ENTRY



SIDE ENTRY



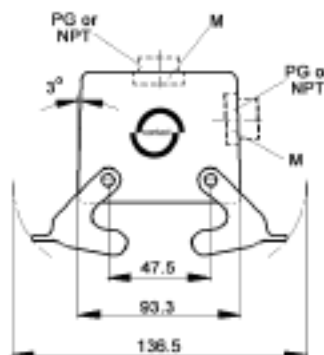
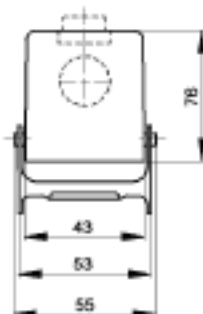
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.0810	10.0810 NP	19.0810	70.1060	70.1060 NP	79.1060
	29	1"	32	10.0910	10.0910 NP	19.0910	-	-	-
Side Entry	21	3/4"	25	10.0830	10.0830 NP	19.0830	70.1080	70.1080 NP	79.1080
	29	1"	32	10.0930	10.0930 NP	19.0930	-	-	-

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

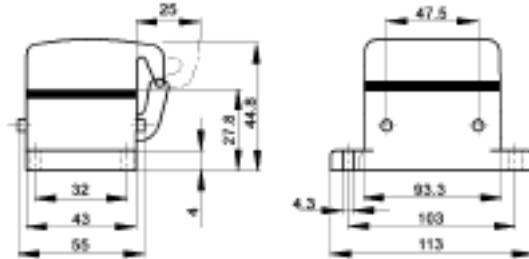
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.1052	70.1052 NP	79.1052	70.1062	70.1062 NP	79.1062
	29	1"	32	70.1054	70.1054 NP	79.1054	70.1064	70.1064 NP	79.1064
Side Entry	21	3/4"	25	70.1072	70.1072 NP	79.1072	70.1082	70.1082 NP	79.1082
	29	1"	32	70.1074	70.1074 NP	79.1074	70.1084	70.1084 NP	79.1084

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood

PANEL MOUNT BASES

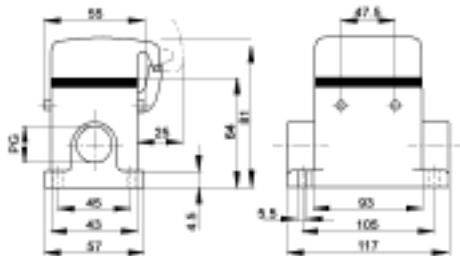


All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.0731	-
Panel Mount with Dust Cover	10.0730	70.0835

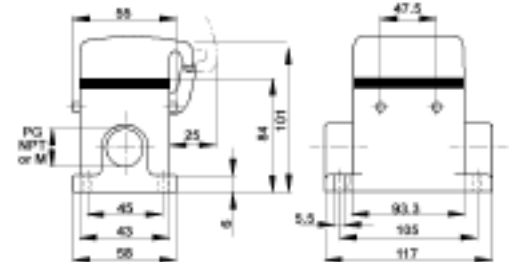
SURFACE MOUNT BASES

STANDARD PROFILE



All dimensions are in mm.

HIGH PROFILE



WITH DUST COVER

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.0960	70.0960 NP	79.0960	70.0980	70.0980 NP	79.0980
1 Entry	21	3/4"	25	10.0760	10.0760 NP	19.0760	70.0970	70.0970 NP	79.0970
High Profile with 2 Entries	21	3/4"	25	70.0962	70.0962 NP	79.0962	70.0982	70.0982 NP	79.0982
	29	1"	32	70.0964	70.0964 NP	79.0964	70.0984	70.0984 NP	79.0984
High Profile with 1 Entry	21	3/4"	25	70.0952	70.0952 NP	79.0952	70.0972	70.0972 NP	79.0972
	29	1"	32	70.0954	70.0954 NP	79.0954	70.0974	70.0974 NP	79.0974

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

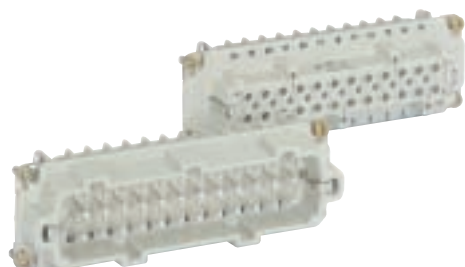
EPIC® CONNECTORS

HBE 24 Plugs & Receptacles



SCREW & CRIMP TERMINATED INSERTS

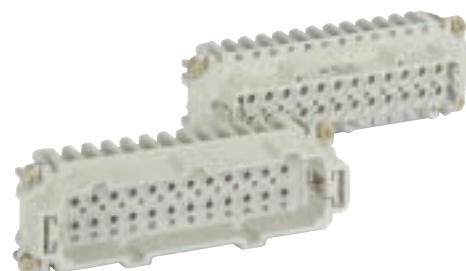
SCREW TERMINATED



View from Cable Side

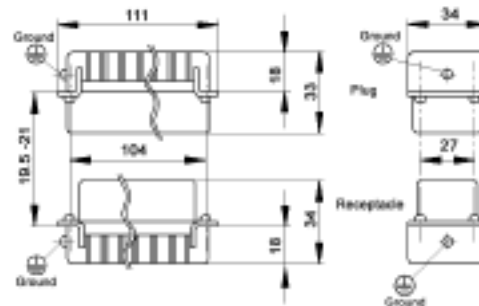
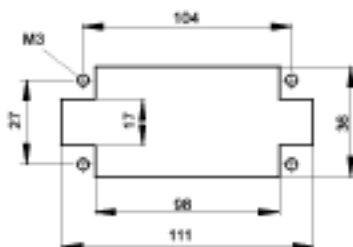
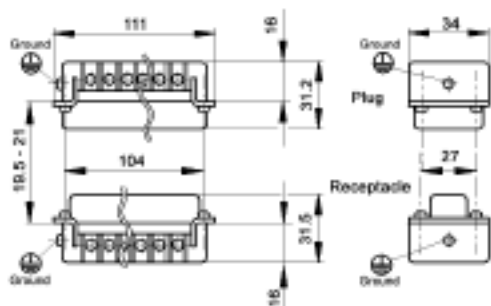


CRIMP TERMINATED



Panel Cut-Out
(Insert Only)

Contacts Sold Separately



All dimensions are in mm.

These inserts fit
in the HBE 24
Series Housings.

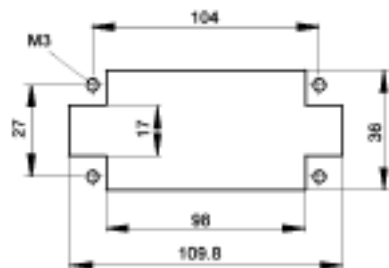
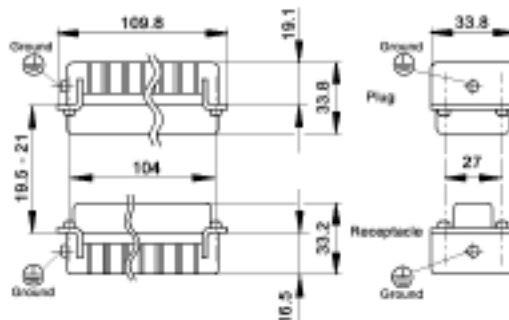
	Plug	Receptacle
Screw Terminated: with wire protection	10.1960	10.1970
Screw Terminated: without wire protection	10.1961	10.1971
Crimp Terminated: Machine	10.1860	10.1870

Crimp
Contacts are
on the next
page.

SCREWLESS SPRING CAGE CLAMP INSERTS



Panel Cut-Out
(Insert Only)



All dimensions are in mm.

Same View from
Cable Side as
Screw & Crimp
Termination

	Plug	Receptacle
Screwless Cage Clamp	10.4003	10.4013

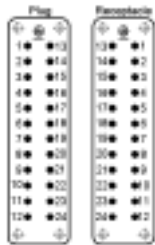
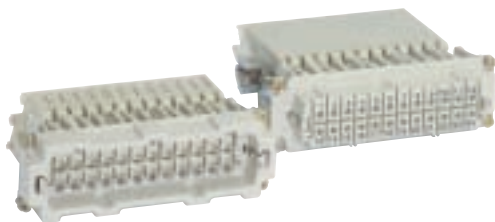
These inserts
fit in the HBE
24 Series
Housings.

EPIC® CONNECTORS

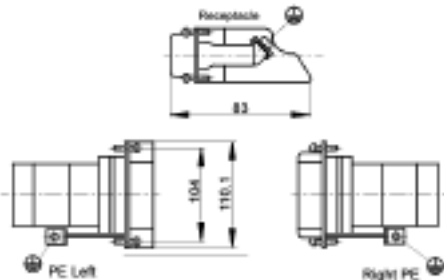
Accessories for Crimp Terminated Inserts

SCREW TERMINATED TERMINAL BLOCK INSERTS

View from Cable Side



All dimensions are in mm.

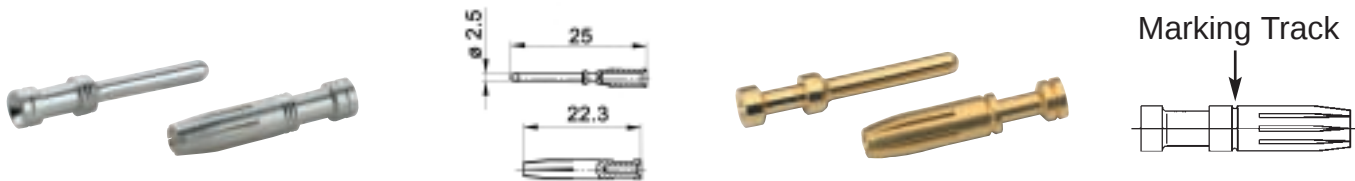


These terminal block inserts only fit in HBE 24 panel mount bases

	Receptacle
Terminal Block: Right Ground	70.3171
Terminal Block: Left Ground	70.3161

One terminal block insert mates with one screw terminated insert.

MACHINED CONTACTS: DIAMETER 2.5 MM²



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS

Wire Gauge: 0.5 - 4.0 mm² for the HBE Crimp Inserts



Locator
11.1472



Crimp Tool
11.1470



Crimp Dies
11.1471

For removal of contacts use a slotted screwdriver. No special tool is necessary.

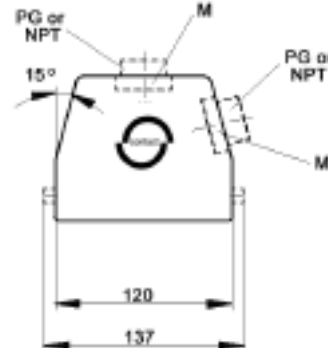
Please note that the crimp range for this tool is 0.14 to 2.5 mm² (AWG 26 - 14) with the appropriate crimp dies.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base

HOODS

TOP ENTRY



SIDE ENTRY



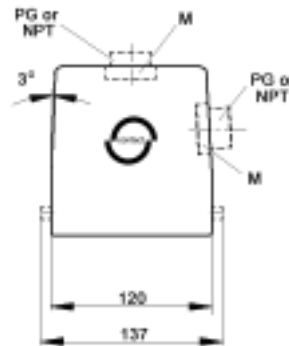
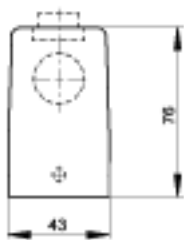
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.1219	10.1219 NP	19.1219	70.1490	70.1490 NP	79.1490
	29	1"	32	10.1119	10.1119 NP	19.1119	70.1492	70.1492 NP	79.1492
Side Entry	21	3/4"	25	10.1139	10.1139 NP	19.1139	70.1590	70.1590 NP	79.1590
	29	1"	32	10.1239	10.1239 NP	19.1239	70.1592	70.1592 NP	79.1592

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

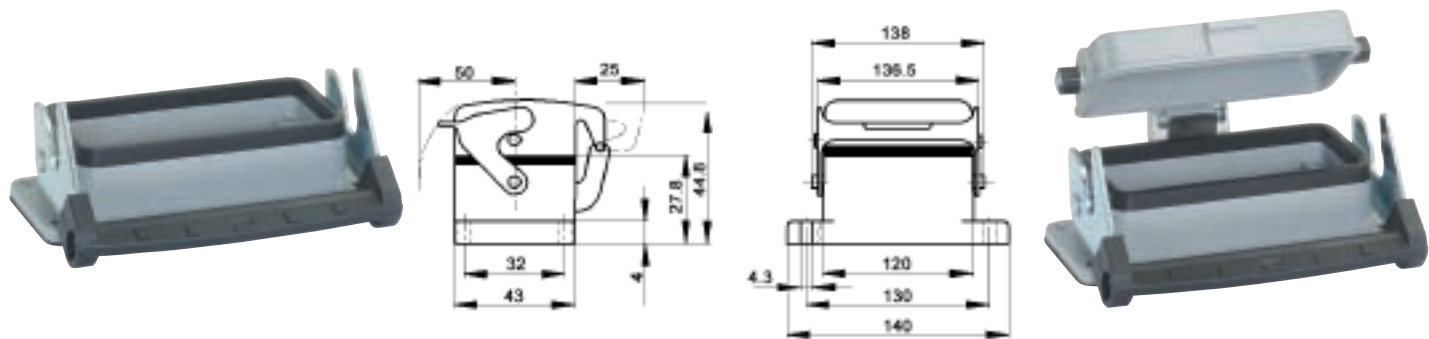
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.1444	70.1444 NP	79.1444	70.1494	70.1494 NP	79.1494
	29	1"	32	70.1446	70.1446 NP	79.1446	70.1496	70.1496 NP	79.1496
	-	-	40	-	-	79.1448	-	-	-
Side Entry	21	3/4"	25	70.1544	70.1544 NP	79.1544	70.1594	70.1594 NP	79.1594
	29	1"	32	70.1546	70.1546 NP	79.1546	70.1596	70.1596 NP	79.1596
	-	-	40	-	-	79.1548	-	-	-

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base

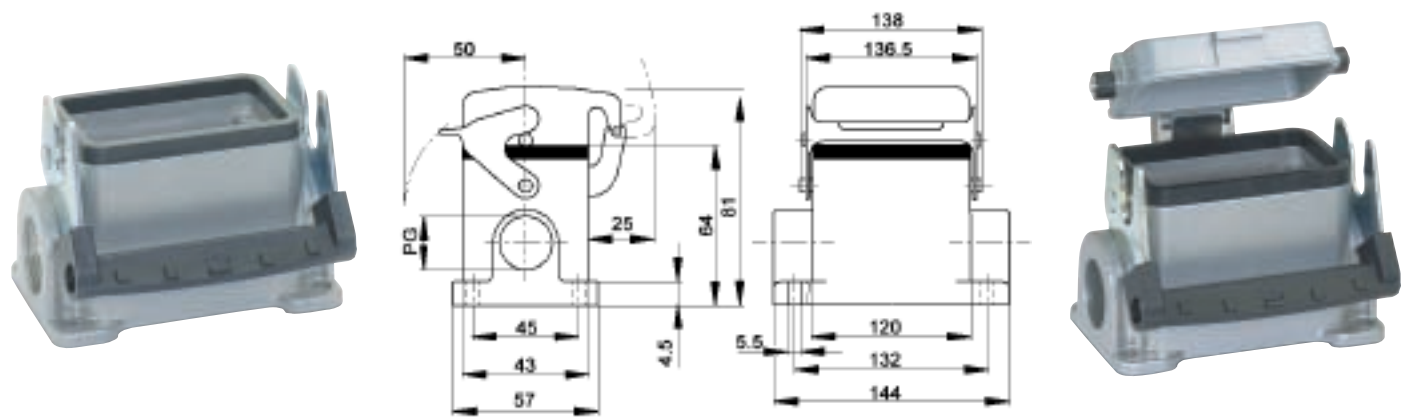
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.1029	70.1327
Panel Mount with Dust Cover	10.1039	70.1337

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	10.1059	10.1059 NP	19.1059	70.1630	70.1630 NP	79.1630
1 Entry	21	3/4"	25	10.1049	10.1049 NP	19.1049	70.1620	70.1620 NP	79.1620
2 with cover	21	3/4"	25	10.1099	10.1099 NP	19.1099	70.1670	70.1670 NP	79.1670
1 with cover	21	3/4"	25	10.1079	10.1079 NP	19.1079	70.1660	70.1660 NP	79.1660

DUST COVERS WITH ATTACHMENT STRING

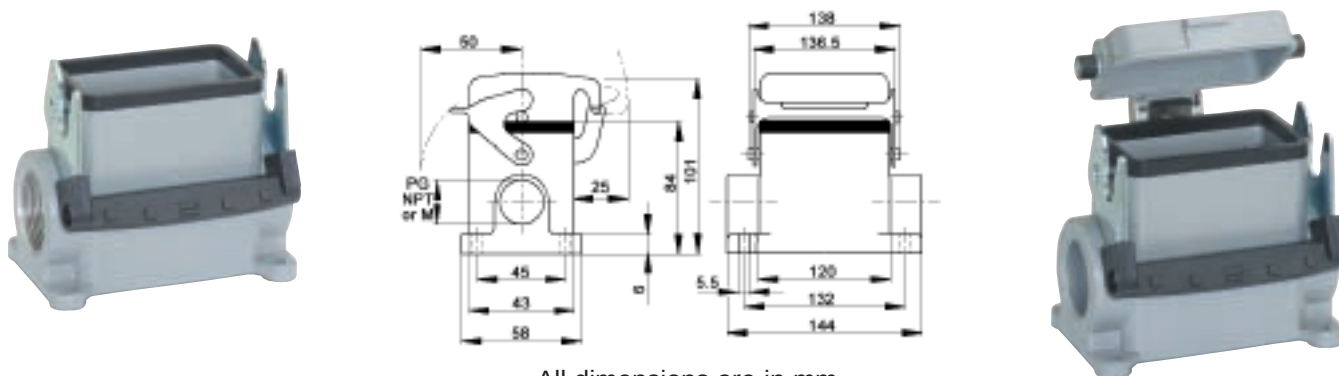


Material:	Thermoplastic Resin	Temperature:	-40°C to 125°C
			Part #
Dust cover with single lever for HBE 24 Hoods			10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface MountBase/ Cable Coupler Hood			10.1187

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base

SURFACE MOUNT BASES

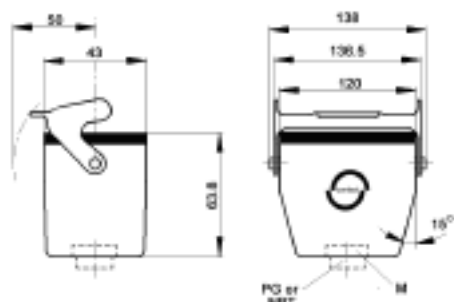


All dimensions are in mm.

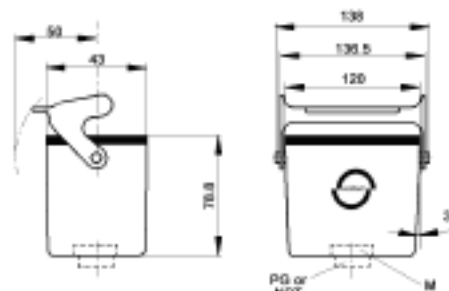
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.1612	70.1612 NP	79.1612	70.1632	70.1632 NP	79.1632
	29	1"	32	70.1614	70.1614 NP	79.1614	70.1634	70.1634 NP	79.1634
1 Entry	21	3/4"	25	70.1602	70.1602 NP	79.1602	70.1622	70.1622 NP	79.1622
	29	1"	32	70.1604	70.1604 NP	79.1604	70.1624	70.1624 NP	79.1624
2 Entries with dust cover	21	3/4"	25	70.1652	70.1652 NP	79.1652	70.1672	70.1672 NP	79.1672
	29	1"	32	70.1654	70.1654 NP	79.1654	70.1674	70.1674 NP	79.1674
1 Entry with dust cover	21	3/4"	25	70.1642	70.1642 NP	79.1642	70.1662	70.1662 NP	79.1662
	29	1"	32	70.1644	70.1644 NP	79.1644	70.1664	70.1664 NP	79.1664

CABLE COUPLER HOODS

STANDARD PROFILE



HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	21	3/4"	25	10.1279	10.1279 NP	19.1279	70.1430	70.1430 NP	79.1430
	29	1"	32	10.1179	10.1179 NP	19.1179	70.1432	70.1432 NP	79.1432
High Profile	21	3/4"	25	70.1424	70.1424 NP	79.1424	70.1434	70.1434 NP	79.1434
	29	1"	32	70.1426	70.1426 NP	79.1426	70.1436	70.1436 NP	79.1436

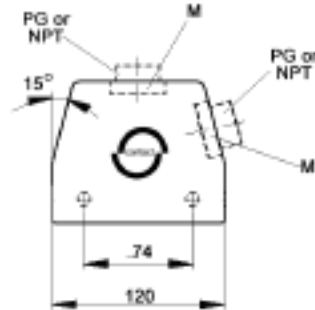
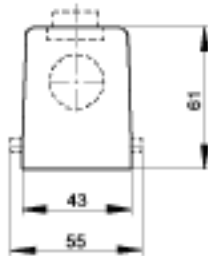
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base

HOODS

TOP ENTRY



SIDE ENTRY



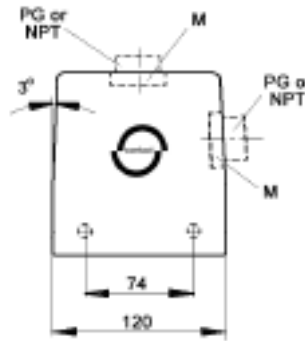
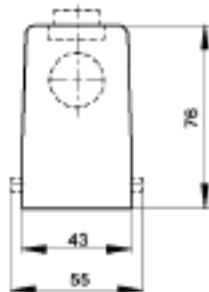
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.1210	10.1210 NP	19.1210	70.1510	70.1510 NP	79.1510
	29	1"	32	10.1110	10.1110 NP	19.1110	70.1512	70.1512 NP	79.1512
Side Entry	21	3/4"	25	10.1130	10.1130 NP	19.1130	70.1530	70.1530 NP	79.1530
	29	1"	32	10.1230	10.1230 NP	19.1230	70.1532	70.1532 NP	79.1532

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

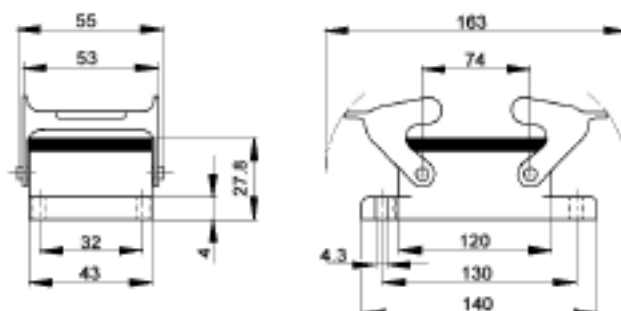
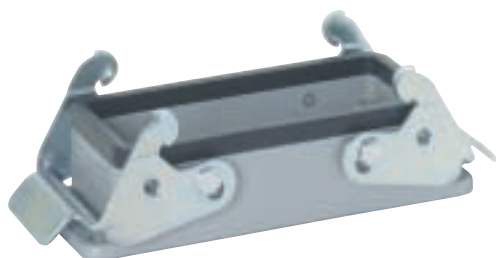
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.1504	70.1504 NP	79.1504	70.1514	70.1514 NP	79.1514
	29	1"	32	70.1506	70.1506 NP	79.1506	70.1516	70.1516 NP	79.1516
	-	-	40	-	-	79.1508	-	-	-
Side Entry	21	3/4"	25	70.1524	70.1524 NP	79.1524	70.1534	70.1534 NP	79.1534
	29	1"	32	70.1526	70.1526 NP	79.1526	70.1536	70.1536 NP	79.1536
	-	-	40	-	-	79.1528	-	-	-

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base

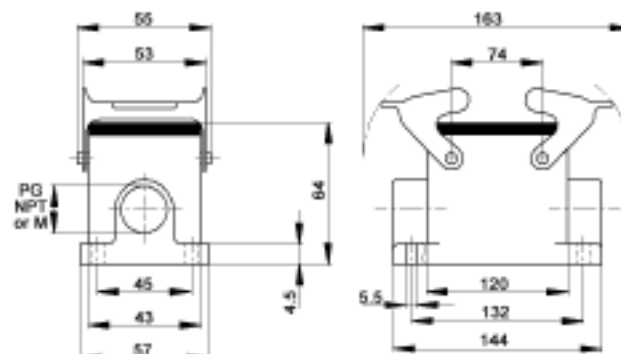
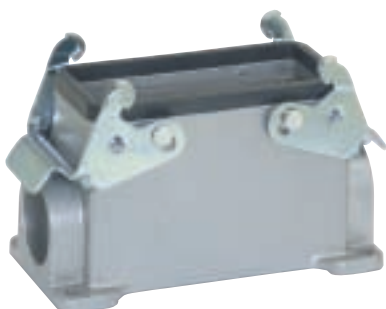
PANEL MOUNT BASES



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount without Dust Cover	10.1020	70.1325

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	10.1050	10.1050 NP	19.1050	70.1380	70.1380 NP	79.1380
1 Entry	21	3/4"	25	10.1040	10.1040 NP	19.1040	70.1370	70.1370 NP	79.1370

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

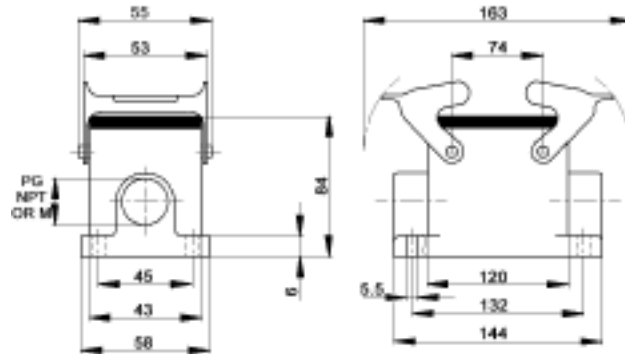
Temperature: -40°C to 125°C

	Part #
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base

HIGH PROFILE SURFACE MOUNT BASES

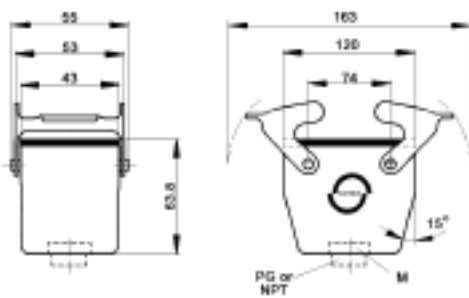


All dimensions are in mm.

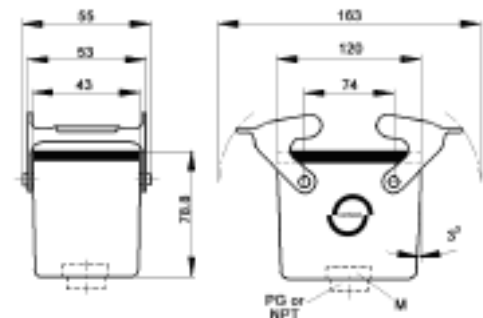
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	70.1362	70.1362 NP	79.1362	70.1382	70.1382 NP	79.1382
	29	1"	32	70.1364	70.1364 NP	79.1364	70.1384	70.1384 NP	79.1384
1 Entry	21	3/4"	25	70.1352	70.1352 NP	79.1352	70.1372	70.1372 NP	79.1372
	29	1"	32	70.1354	70.1354 NP	79.1354	70.1374	70.1374 NP	79.1374

CABLE COUPLER HOODS

STANDARD PROFILE



HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Standard Profile	21	3/4"	25	10.1270	10.1270 NP	19.1270	70.1410	70.1410 NP	79.1410
	29	1"	32	10.1170	10.1170 NP	19.1170	70.1412	70.1412 NP	79.1412
High Profile	21	3/4"	25	70.1404	70.1404 NP	79.1404	70.1414	70.1414 NP	79.1414
	29	1"	32	70.1406	70.1406 NP	79.1406	70.1416	70.1416 NP	79.1416

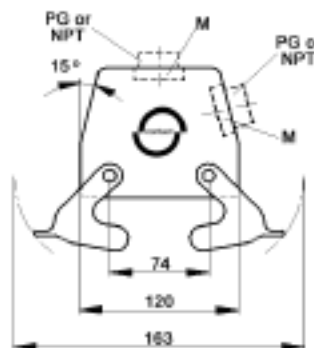
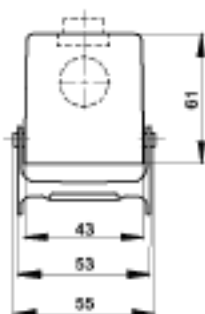
Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood

HOODS

TOP ENTRY



SIDE ENTRY



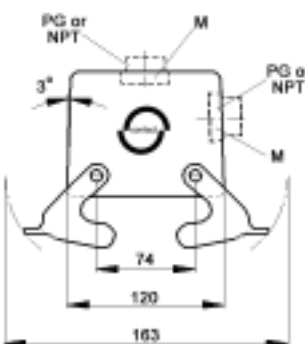
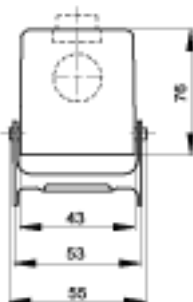
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	10.1220	10.1220 NP	19.1220	70.1560	70.1560 NP	79.1560
	29	1"	32	10.1120	10.1120 NP	19.1120	70.1562	70.1562 NP	79.1562
Side Entry	21	3/4"	25	10.1140	10.1140 NP	19.1140	70.1580	70.1580 NP	79.1580
	29	1"	32	10.1240	10.1240 NP	19.1240	70.1582	70.1582 NP	79.1582

Metric hoods do not come with a neck.

HIGH PROFILE HOODS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

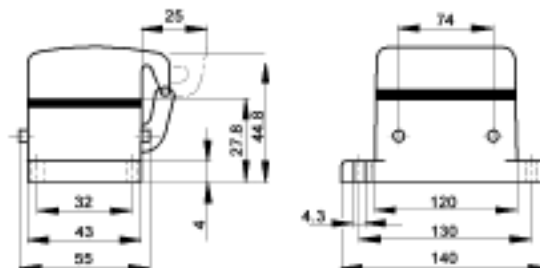
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	25	70.1554	70.1554 NP	79.1554	70.1564	70.1564 NP	79.1564
	29	1"	32	70.1556	70.1556 NP	79.1556	70.1566	70.1566 NP	79.1566
Side Entry	21	3/4"	25	70.1574	70.1574 NP	79.1574	70.1584	70.1584 NP	79.1584
	29	1"	32	70.1576	70.1576 NP	79.1576	70.1586	70.1586 NP	79.1586

Metric hoods do not come with a neck.

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood

PANEL MOUNT BASES

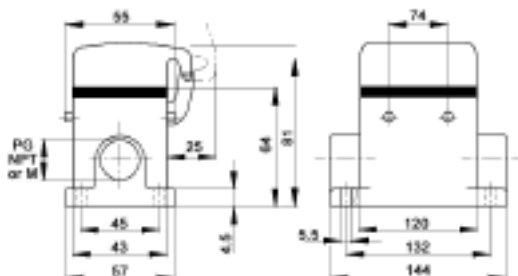


All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (EP)
Panel Mount with Dust Cover	10.1030	70.1335
Panel Mount without Dust Cover	10.1031	-

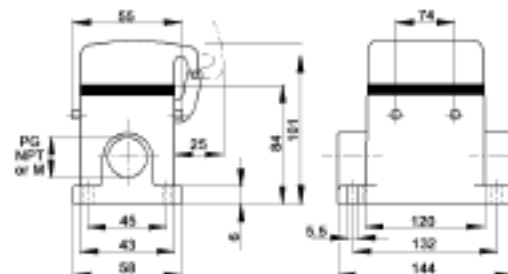
SURFACE MOUNT BASES

STANDARD PROFILE



All dimensions are in mm.

HIGH PROFILE



WITH DUST COVER

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (EP)		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #
2 Entries	21	3/4"	25	10.1090	10.1090 NP	19.1090	70.1480	70.1480 NP	79.1480
1 Entry	21	3/4"	32	10.1070	10.1070 NP	19.1070	70.1470	70.1470 NP	79.1470
High Profile with 2 Entries	21	3/4"	25	70.1462	70.1462 NP	79.1462	70.1482	70.1482 NP	79.1482
High Profile with 1 Entry	29	1"	32	70.1464	70.1464 NP	79.1464	70.1484	70.1484 NP	79.1484
High Profile with 2 Entries	21	3/4"	25	70.1452	70.1452 NP	79.1452	70.1472	70.1472 NP	79.1472
High Profile with 1 Entry	29	1"	32	70.1454	70.1454 NP	79.1454	70.1474	70.1474 NP	79.1474

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181

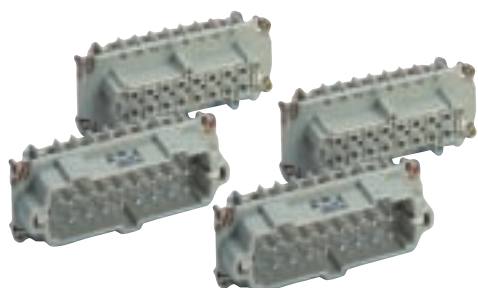
EPIC® CONNECTORS

HBE 32 Plugs & Receptacles

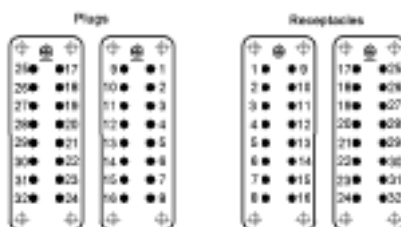


SCREW & CRIMP TERMINATED INSERTS

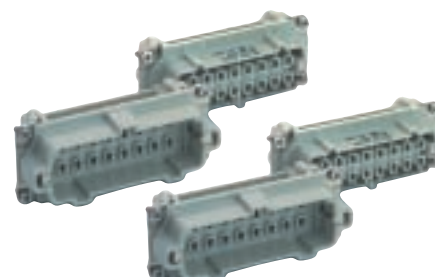
SCREW TERMINATED



View from Cable Side

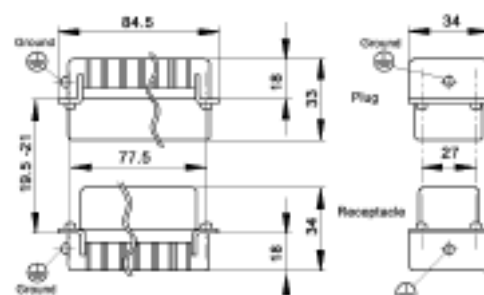
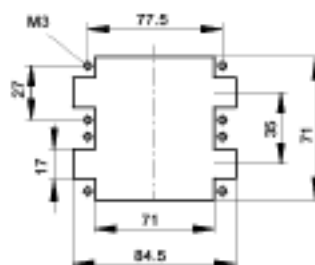
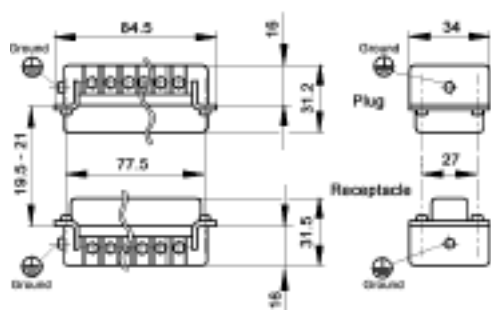


CRIMP TERMINATED



Panel Cut-Out
(Insert Only)

Contacts Sold Separately



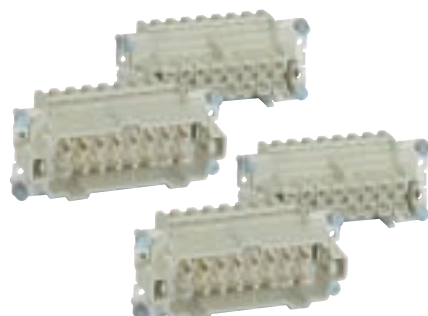
All dimensions are in mm.

These inserts
fit in the HBE
32 Series
Housings.

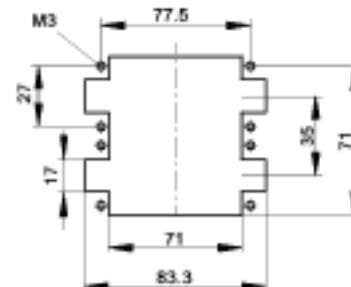
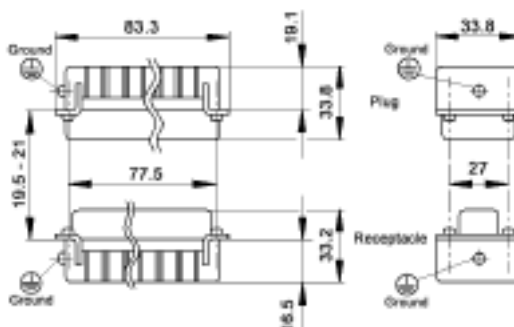
	Plug	Receptacle
Screw Terminated with wire protection (#1-16)	10.1940	10.1950
Screw Terminated with wire protection (#17-32)	10.2020	10.2030
Screw Terminated without wire protection (#1-16)	10.1941	10.1951
Screw Terminated without wire protection (#17-32)	10.2021	10.2031
Crimp Terminated: Machine (#1-16)	10.1840	10.1850
Crimp Terminated: Machine (#17-32)	10.1842	10.1852

Crimp
Contacts
are on the
next page.

SCREWLESS SPRING CAGE CLAMP INSERTS



Panel Cut-Out



All dimensions are in mm.

Same View from
Cable Side as
Screw & Crimp
Termination

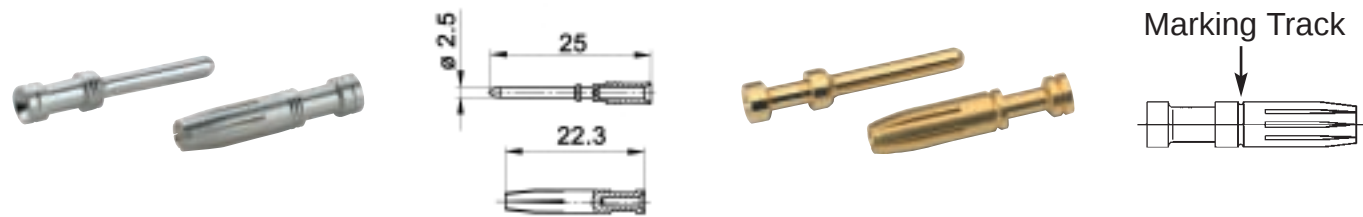
	Plug	Receptacle
Screwless Cage Clamp (#1-16)	10.4002	10.4012
Screwless Cage Clamp (#17-32)	10.4004	10.4014

These inserts
fit in the HBE
32 Series
Housings.

EPIC® CONNECTORS

Accessories for Crimp Terminated Inserts

HBE MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS

Wire Gauge: 0.5 - 4.0 mm² for the HBE Crimp Inserts



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471

For removal of contacts use a slotted screwdriver. No special tool is necessary.

Please note that the crimp range for this tool is 0.14 to 2.5 mm² (AWG 26 - 14) with the appropriate crimp dies.

EPIC® CONNECTORS

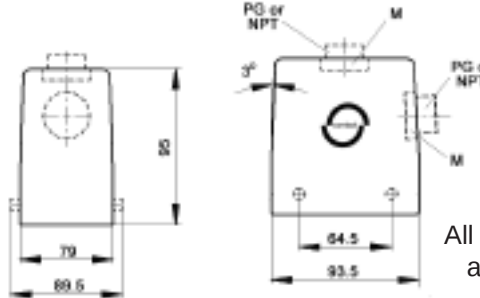
HBE 32 Housings: Double Levers on Hood

TOP ENTRY



Metric hoods do not come with a neck.

HOODS



All dimensions are in mm.

SIDE ENTRY



Position of Cable Entry	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
Top Entry	21	3/4"	-	10.1330	10.1330 NP	-
	29	1"	32	10.1340	10.1340 NP	19.1340
Side Entry	21	3/4"	25	10.1350	10.1350 NP	19.1350
	29	1"	32	10.1360	10.1360 NP	19.1360

Also Available
Top Entry:
Metric 40-
19.1344

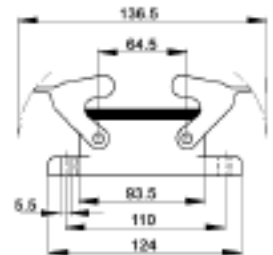
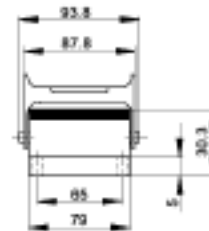
Side Entry:
Metric 40-
19.1362

PANEL MOUNT BASES



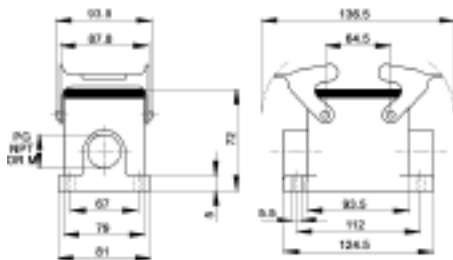
Standard Grey Coating
10.1320

All dimensions are in mm.



Dust cover with double lever bolts and attachment string: 10.1420

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
2 Entries	29	1"	32	10.1380	10.1380 NP	19.1380
1 Entry	29	1"	32	10.1370	10.1370 NP	19.1370

Dust cover with double lever bolts
and attachment string: 10.1420

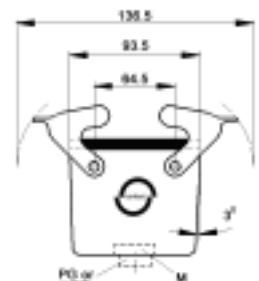


CABLE COUPLER HOODS



Size of Entry			Standard Grey Coating		
PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
21	3/4"	-	10.1390	10.1390 NP	-
29	1"	32	10.1395	10.1395 NP	19.1395

Dust cover with double lever bolts
and attachment string: 10.1420

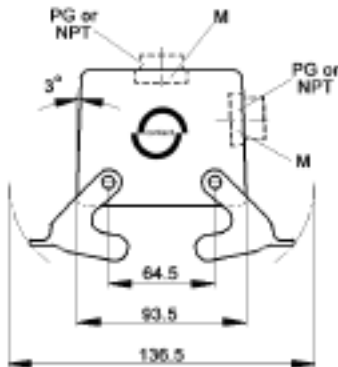
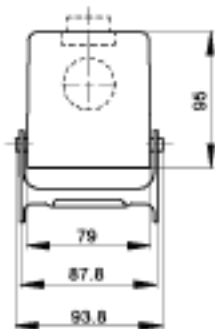


EPIC® CONNECTORS

HBE 32 Housings: Double Levers on Hood

HOODS

TOP ENTRY



SIDE ENTRY



Position of Cable Entry	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
Top Entry	29	1"	32	70.2050	70.2050 NP	79.2050
Side Entry	29	1"	32	10.1366	10.1366 NP	19.1366

All dimensions are in mm.

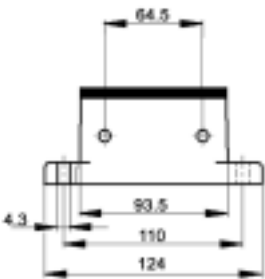
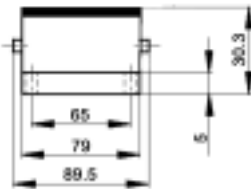
Metric hoods do not come with a neck.

PANEL MOUNT BASES

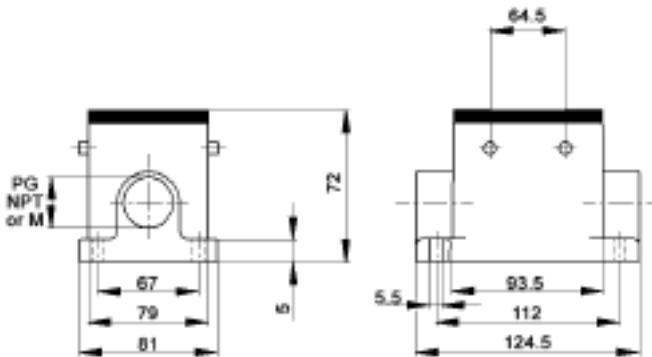


Standard Grey Coating
10.1323

All dimensions are in mm.



SURFACE MOUNT BASES



All dimensions are in mm.



# of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
1 Entry	29	1"	32	10.1373	10.1373 NP	-

EPIC® CONNECTORS

HBE 48 Plugs & Receptacles

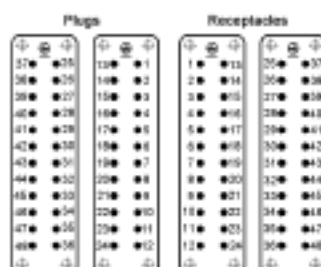


SCREW & CRIMP TERMINATED INSERTS

SCREW TERMINATED



View from Cable Side

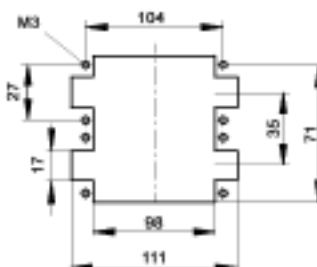
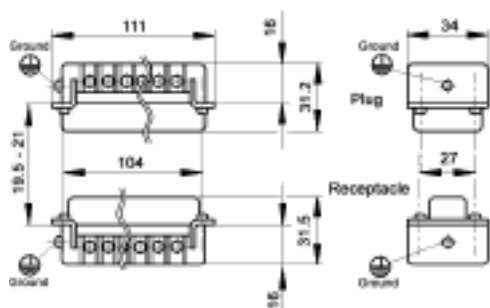


CRIMP TERMINATED

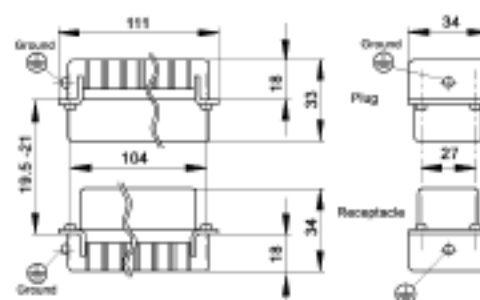


Panel Cut-Out

Contacts Sold Separately



All dimensions are in mm.

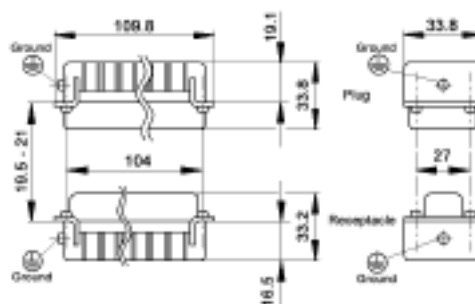
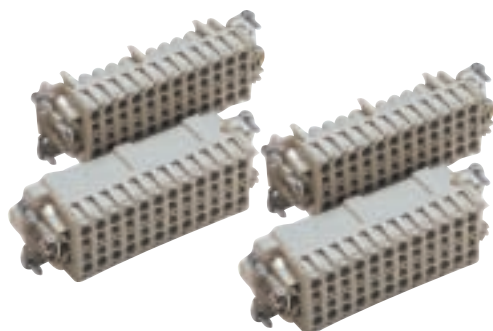


These inserts fit in the HBE 48 Series Housings.

	Plug	Receptacle
Screw Terminated with wire protection (#1-24)	10.1960	10.1970
Screw Terminated with wire protection (#25-48)	10.2040	10.2050
Screw Terminated without wire protection (#1-24)	10.1961	10.1971
Screw Terminated without wire protection (#25-48)	10.2041	10.2051
Crimp Terminated: Machine (#1-24)	10.1860	10.1870
Crimp Terminated: Machine (#25-48)	10.1862	10.1872

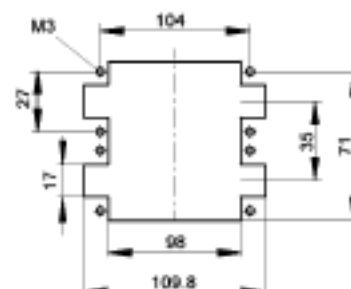
Crimp Contacts are on the next page.

SCREWLESS SPRING CAGE CLAMP INSERTS



All dimensions are in mm.

Panel Cut-Out



Same View from Cable Side as Screw & Crimp Termination

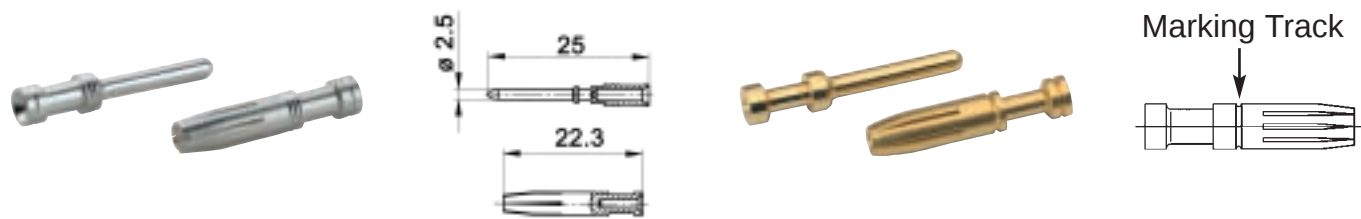
	Plug	Receptacle
Screwless Cage Clamp (#1-24)	10.4003	10.4013
Screwless Cage Clamp (#25-48)	10.4005	10.4015

These inserts fit in the HBE 48 Series Housings.

EPIC® CONNECTORS

Accessories for Crimp Terminated Inserts

HBE MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100							
mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS

Wire Gauge: 0.5 - 4.0 mm² for the HBE Crimp Inserts



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471

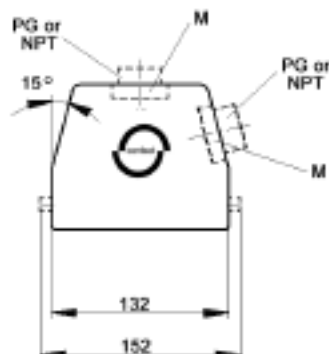
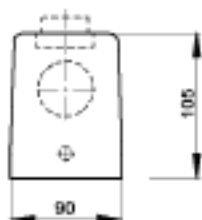
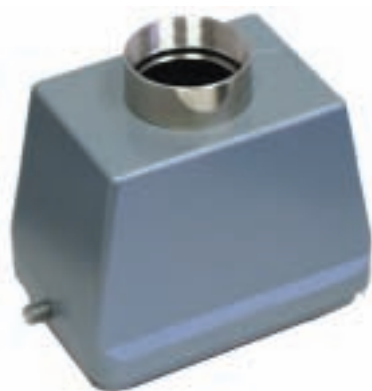
For removal of contacts use a slotted screwdriver. No special tool is necessary.
Please note that the crimp range for this tool is 0.14 to 2.5 mm² (AWG 26 - 14) with the appropriate crimp dies.

EPIC® CONNECTORS

HBE 48 Housings: Single Lever on Base

HOODS

TOP ENTRY



SIDE ENTRY

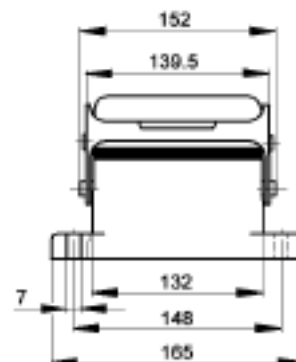
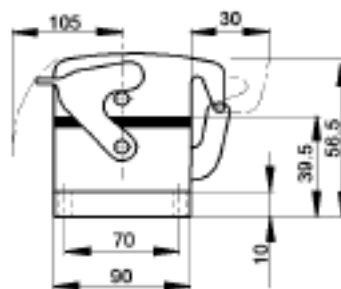


Position of Cable Entry	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
Top Entry	29	1"	32	10.1550	10.1550 NP	19.1550
	36	1 1/4"	40	10.1560	10.1560 NP	19.1560
	42	-	50	10.1570	-	19.1570
Side Entry	29	1"	32	10.1580	10.1580 NP	19.1580
	36	1 1/4"	40	10.1590	10.1590 NP	19.1590
	42	-	50	10.1600	-	19.1600

All dimensions are in mm.

Metric hoods do not come with a neck.

PANEL MOUNT BASES



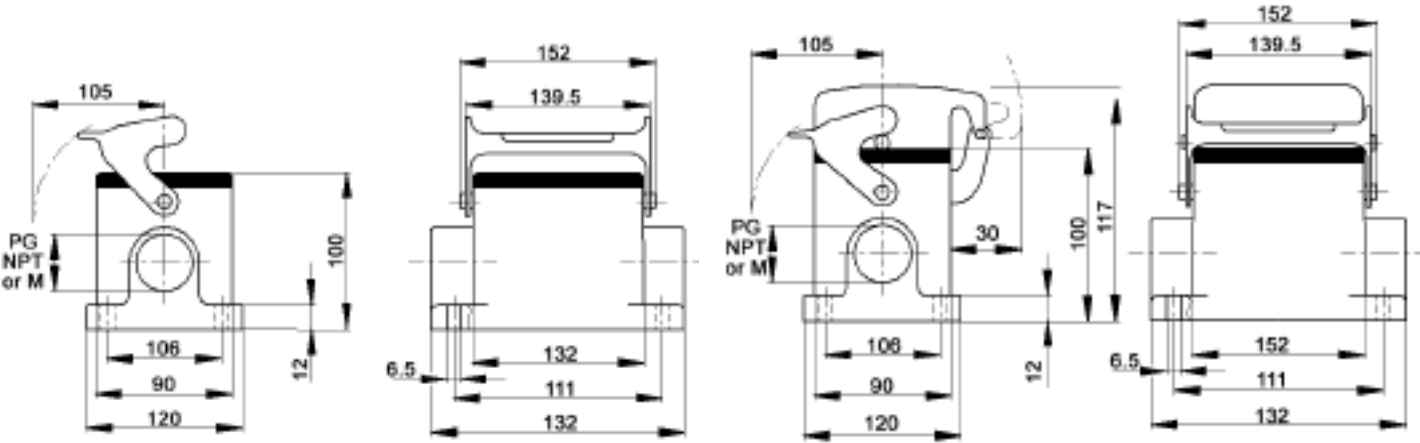
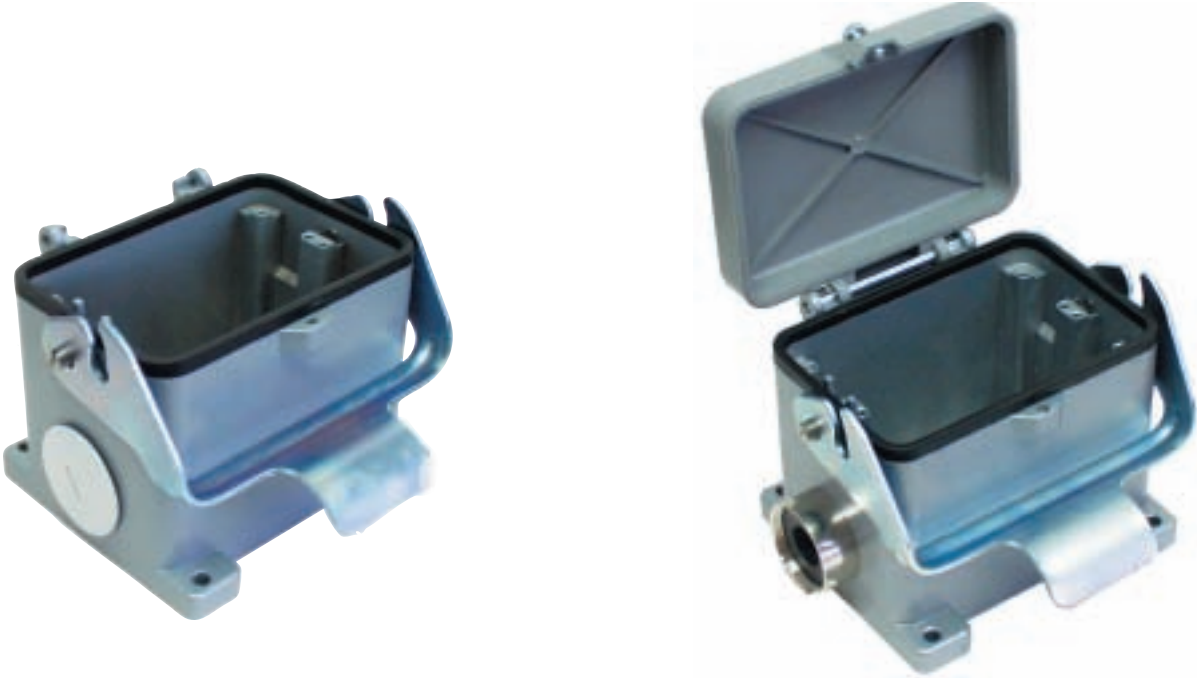
All dimensions are in mm.

Without Dust Cover	With Dust Cover with hold down screw and no dust cover bolts	With Dust Cover with hold down screw and dust cover bolts
10.1610	10.1520	10.1525

EPIC® CONNECTORS

HBE 48 Housings: Single Lever on Base

SURFACE MOUNT BASES



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
2 Entries	29	1"	32	10.1660	10.1660 NP	19.1660
	36	1 1/4"	40	10.1661	10.1661 NP	19.1661
1 Entry	29	1"	32	10.1650	10.1650 NP	19.1650
	36	1 1/4"	40	10.1651	10.1651 NP	19.1651
2 Entries with dust cover	29	1"	32	10.1680	10.1680 NP	19.1680
	36	1 1/4"	40	10.1681	10.1681 NP	19.1681
1 Entry with dust cover	29	1"	32	10.1670	10.1670 NP	19.1670
	36	1 1/4"	40	10.1671	10.1671 NP	19.1671

EPIC® CONNECTORS

HEE Series

The EPIC® HEE Series connector inserts are a high-density companion to the popular EPIC® HBE Series. Offering the same voltage and current ratings (600 V AC, 16 Amps), they provide a significant increase in contact density (67% - 100% increase) within the same footprint dimensions as an equivalent size HBE connector. They are ideal for applications in the automotive industries, and any other industrial application requiring high density contacts.

HEE 10 Series	321
HEE 18 Series	323
HEE 32 Series	327
HEE 46 Series	331
HEE 64 Series	335
HEE 92 Series	337

EPIC® CONNECTORS

HEE Series

TECHNICAL DATA

Number of Contacts: 10, 18, 32, 46, 64 (2x32),
92 (2X46) (+PE)

Rated Voltage: VDE: 500V
UL: 600V
CSA: 600V

Rated Current: 16A

Temperature Range: -40°C to 125°C

Pollution Degree: 3

Test Voltage: 6 kV

Termination Type:

Machined Crimp:

mm^2 **AWG**
0.5 - 4.0 mm^2 20 - 12

Contacts:

Material:

Copper alloy, silver plated/ gold plated

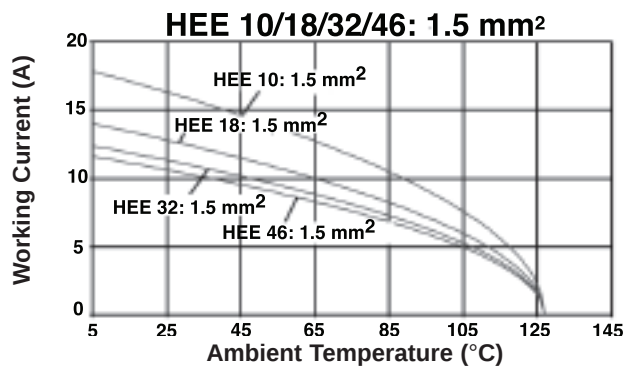
Mating Cycles:

100 (higher mating cycles depending on the application)

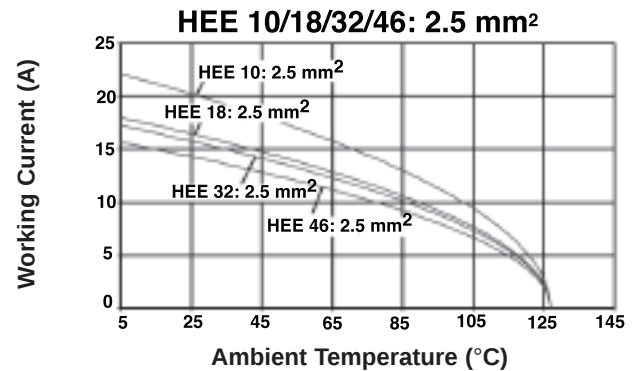
Contact Resistance: $\leq 2 \text{ m}\Omega$

HEE INSERTS: DERATING CURVES

HEE CRIMP MACHINED: 1.5 mm^2 (16 AWG)



HEE CRIMP MACHINED: 2.5 mm^2 (14 AWG)



MATING COMPONENTS

HBVE Plugs & Receptacles fit into EPIC® HBE Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog. Please note that metric parts are available.

Specifications: DIN 43652
Temperature Range: -40°C to +125°C

Protection class: IP65
Material: Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)

PG

NPT

METRIC



EP Black Coating (NEMA 4X)

PG

NPT

METRIC

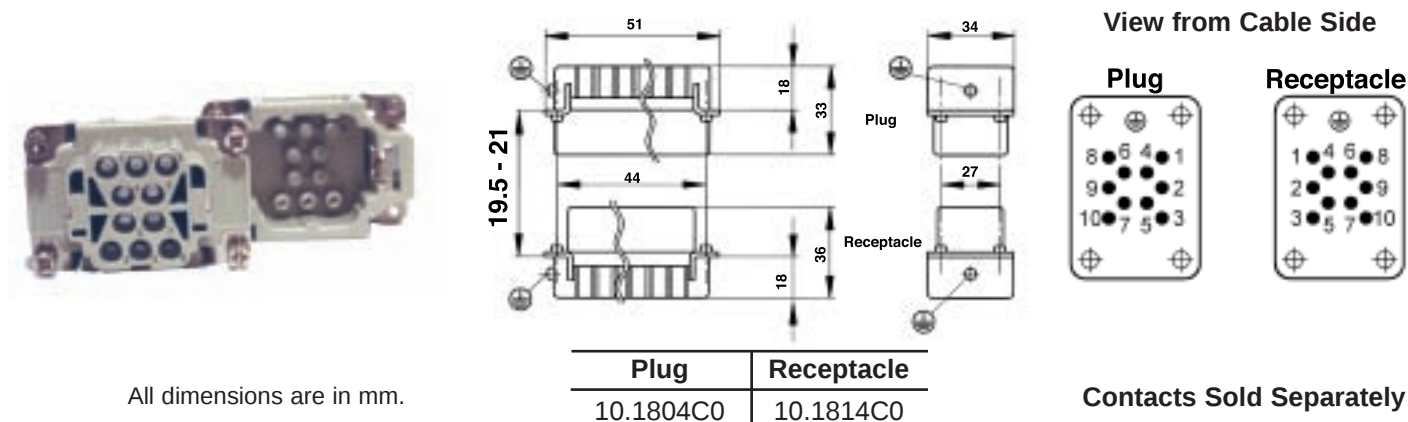


EPIC® CONNECTORS

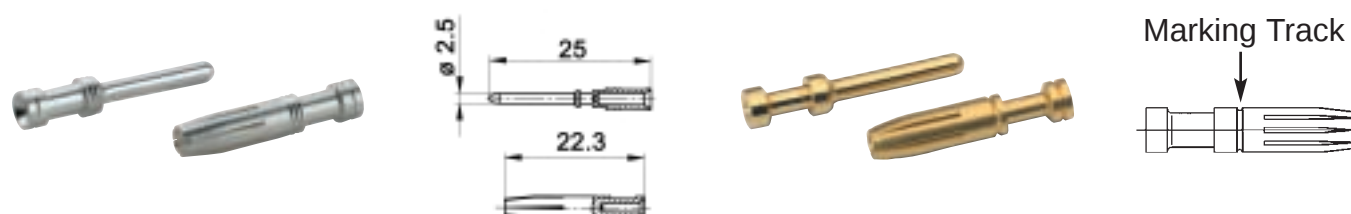
HEE 10 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471



Removal Tool:
11.1825

MATING COMPONENTS

HEE 10 Plugs & Receptacles fit into the EPIC® HBE 6 Housings. Following is a quick reference for the mating components. Diagrams are located in the HBE Section of the catalog (Page 278). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 6 Housings: Single Lever on Base for HEE 10 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	13.5	1/2"	10.0110	10.0110 NP	70.0216	70.0216 NP
	16	1/2"	10.0210	10.0210 NP	70.0210	70.0210 NP
Side Entry	13.5	1/2"	10.0120	10.0120 NP	70.0236	70.0236 NP
	16	1/2"	10.0220	10.0220 NP	70.0230	70.0230 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0202	70.0202 NP	70.0212	70.0212 NP
	29	1"	70.0204	70.0204 NP	70.0214	70.0214 NP
Side Entry	21	3/4"	70.0222	70.0222 NP	70.0232	70.0232 NP
	29	1"	70.0224	70.0224 NP	70.0234	70.0234 NP



Dust Cover- 10.0165

PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0030	70.0025
With Dust Cover	10.0040	70.0045

Dust Cover- 10.0150



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0060	10.0060 NP	70.0080	70.0080 NP
1 Entry	16	1/2"	10.0050	10.0050 NP	70.0070	70.0070 NP
2 Entries with dust cover	16	1/2"	10.0090	10.0090 NP	70.0180	70.0180 NP
1 Entry with dust cover	16	1/2"	10.0070	10.0070 NP	70.0170	70.0170 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0062	70.0062 NP	70.0082	70.0082 NP
	29	1"	70.0064	70.0064 NP	70.0084	70.0084 NP
1 Entry	21	3/4"	70.0052	70.0052 NP	70.0072	70.0072 NP
	29	1"	70.0054	70.0054 NP	70.0074	70.0074 NP
2 Entries with dust cover	21	3/4"	70.0162	70.0162 NP	70.0182	70.0182 NP
	29	1"	70.0164	70.0164 NP	70.0184	70.0184 NP
1 Entry with dust cover	21	3/4"	70.0152	70.0152 NP	70.0172	70.0172 NP
	29	1"	70.0154	70.0154 NP	70.0174	70.0174 NP



Dust Cover- 10.0150

CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	13.5	1/2"	10.0140	10.0140 NP	-	-
	16	1/2"	10.0240	10.0240 NP	70.0110	70.0110 NP
High Profile	21	3/4"	70.0102	70.0102 NP	70.0112	70.0112 NP
	29	1"	70.0104	70.0104 NP	70.0114	70.0114 NP

Dust Cover- 10.0150

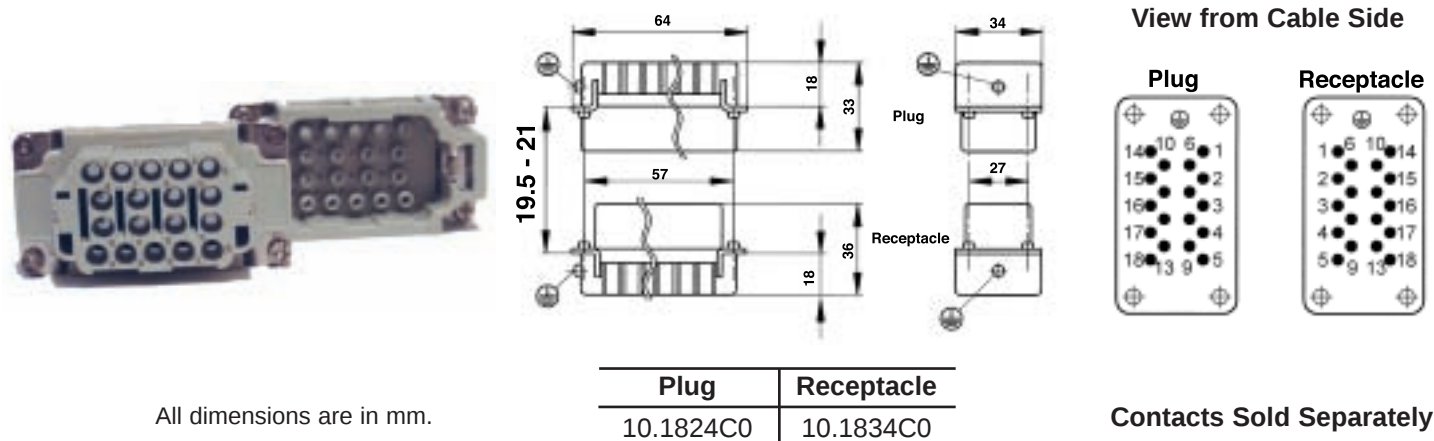


EPIC® CONNECTORS

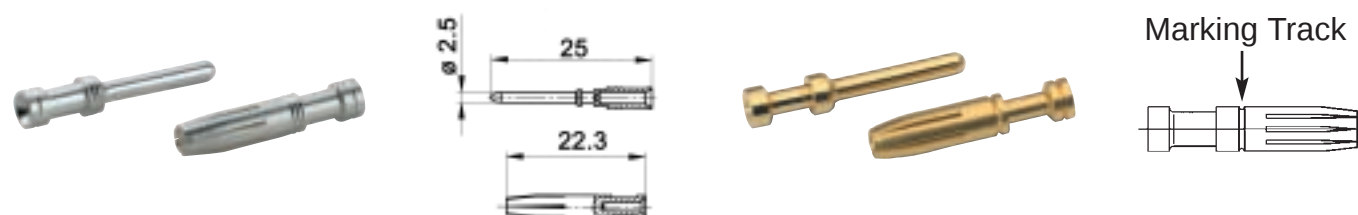
HEE 18 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



MACHINE CONTACTS: DIAMETER 2.5 MM

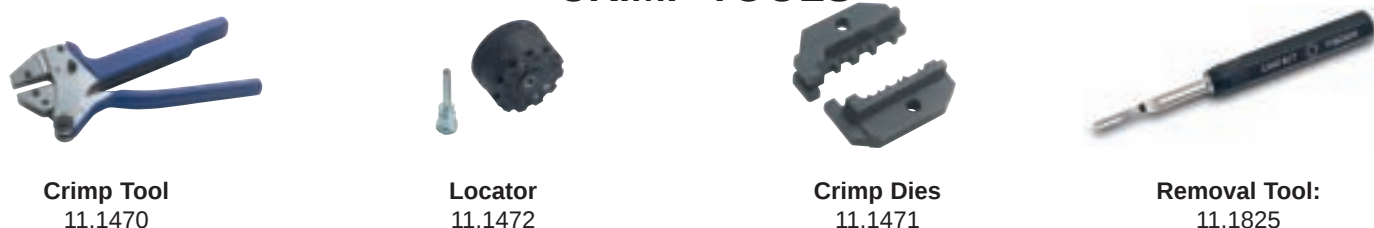


Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



MATING COMPONENTS

HEE 18 Plugs & Receptacles fit into the EPIC® HBE 10 Housings. Following is a quick reference for the mating components. Diagrams are located in the HBE Section of the catalog (Page 283). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base for HEE 18 Inserts

HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0409	10.0409 NP	70.0490	70.0490 NP
	21	3/4"	10.0407	10.0407 NP	70.0496	70.0496 NP
Side Entry	16	1/2"	10.0429	10.0429 NP	70.0590	70.0590 NP
	21	3/4"	10.0428	10.0428 NP	70.0596	70.0596 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0442	70.0442 NP	70.0492	70.0492 NP
	29	1"	70.0444	70.0444 NP	70.0494	70.0494 NP
Side Entry	21	3/4"	70.0542	70.0542 NP	70.0592	70.0592 NP
	29	1"	70.0544	70.0544 NP	70.0594	70.0594 NP



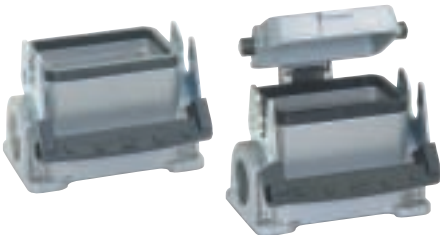
PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0329	70.0327
With Dust Cover	10.0339	70.0337

Dust Cover- 10.0487

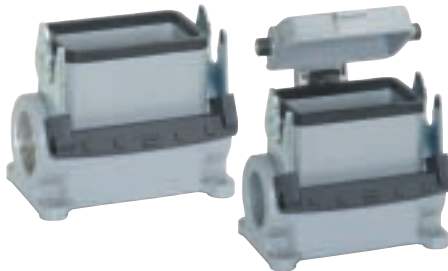
SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0359	10.0359 NP	70.0630	70.0630 NP
1 Entry	16	1/2"	10.0349	10.0349 NP	70.0620	70.0620 NP
	21	-	10.0347	10.0347 NP	-	-
2 Entries with dust cover	16	1/2"	10.0389	10.0389 NP	70.0670	70.0670 NP
	-	-	-	-	-	-
1 Entry with dust cover	16	1/2"	10.0369	10.0369 NP	70.0660	70.0660 NP
	-	-	-	-	-	-

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0612	70.0612 NP	70.0632	70.0632 NP
	29	1"	70.0614	70.0614 NP	70.0634	70.0634 NP
1 Entry	21	3/4"	70.0602	70.0602 NP	70.0622	70.0622 NP
	29	1"	70.0604	70.0604 NP	70.0624	70.0624 NP
2 Entries with dust cover	21	3/4"	70.0652	70.0652 NP	70.0672	70.0672 NP
	29	1"	70.0654	70.0654 NP	70.0674	70.0674 NP
1 Entry with dust cover	21	3/4"	70.0642	70.0642 NP	70.0662	70.0662 NP
	29	1"	70.0644	70.0644 NP	70.0664	70.0664 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0469	10.0469 NP	70.0430	70.0430 NP
	21	3/4"	70.0422	70.0422 NP	70.0432	70.0432 NP
High Profile	21	3/4"	70.0424	70.0424 NP	70.0434	70.0434 NP
	29	1"	70.0426	70.0426 NP	70.0436	70.0436 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Base for HEE 18 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0400	10.0400 NP	70.0510	70.0510 NP
	21	3/4"	10.0401	10.0401 NP	70.0512	70.0512 NP
Side Entry	16	1/2"	10.0420	10.0420 NP	70.0530	70.0530 NP
	21	3/4"	10.0421	10.0421 NP	70.0532	70.0532 NP

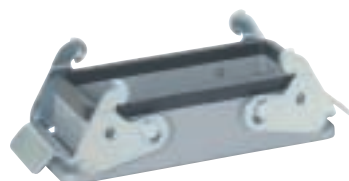
HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0504	70.0504 NP	70.0514	70.0514 NP
	29	1"	70.0506	70.0506 NP	70.0516	70.0516 NP
Side Entry	21	3/4"	70.0524	70.0524 NP	70.0534	70.0534 NP
	29	1"	70.0526	70.0526 NP	70.0536	70.0536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0320	70.0325



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0350	10.0350 NP	70.0380	70.0380 NP
1 Entry	16	1/2"	10.0340	10.0340 NP	70.0370	70.0370 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0362	70.0362 NP	70.0382	70.0382 NP
	29	1"	70.0364	70.0364 NP	70.0384	70.0384 NP
1 Entry	21	3/4"	70.0352	70.0352 NP	70.0372	70.0372 NP
	29	1"	70.0354	70.0354 NP	70.0374	70.0374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0460	10.0460 NP	70.0410	70.0410 NP
	21	3/4"	70.0402	70.0402 NP	70.0412	70.0412 NP
High Profile	16	1/2"	70.0404	70.0404 NP	70.0414	70.0414 NP
	21	3/4"	70.0406	70.0406 NP	70.0416	70.0416 NP



EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Hood for HEE 18 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0410	10.0410 NP	70.0560	70.0560 NP
Side Entry	16	1/2"	10.0450	10.0450 NP	70.0580	70.0580 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0552	70.0552 NP	70.0562	70.0562 NP
	29	1"	70.0554	70.0554 NP	70.0564	70.0564 NP
Side Entry	21	3/4"	70.0572	70.0572 NP	70.0582	70.0582 NP
	29	1"	70.0574	70.0574 NP	70.0584	70.0584 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.0330	70.0335



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0380	10.0380 NP	70.0480	70.0480 NP
1 Entry	16	1/2"	10.0360	10.0360 NP	70.0470	70.0470 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0462	70.0462 NP	70.0482	70.0482 NP
	29	1"	70.0464	70.0464 NP	70.0484	70.0484 NP
1 Entry	21	3/4"	70.0452	70.0452 NP	70.0472	70.0472 NP
	29	1"	70.0454	70.0454 NP	70.0474	70.0474 NP



DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 10 Hoods	10.0486
Dust cover with single lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0487
Dust cover with double levers and gasket for HBE 10 Hoods	10.0485
Dust cover with double lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0470
Dust cover with double lever bolts and gasket for HBE 10 Hoods	10.0471

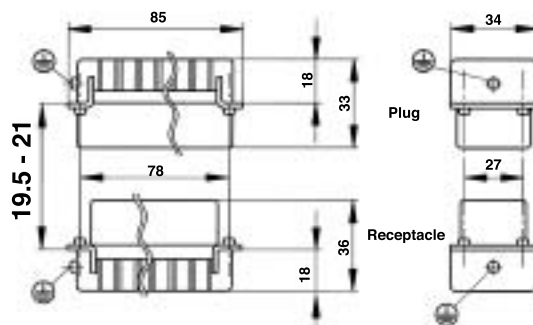


EPIC® CONNECTORS

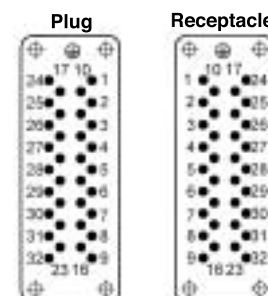
HEE 32 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from Cable Side

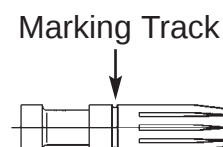
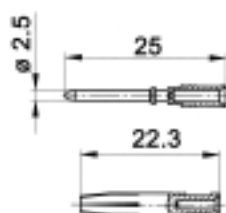


All dimensions are in mm.

Plug	Receptacle
10.1844C0	10.1854C0

Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471



Removal Tool:
11.1825

MATING COMPONENTS

HEE 32 Plugs & Receptacles fit into the EPIC® HBE 16 Housings. Following is a quick reference for the mating components. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for HEE 32 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP



EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base for HEE 32 Inserts

HOODS



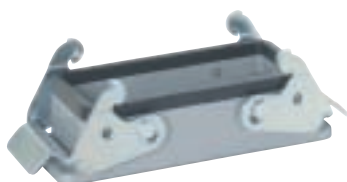
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood for HEE 32 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0731	-
With Dust Cover	10.0730	70.0835



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



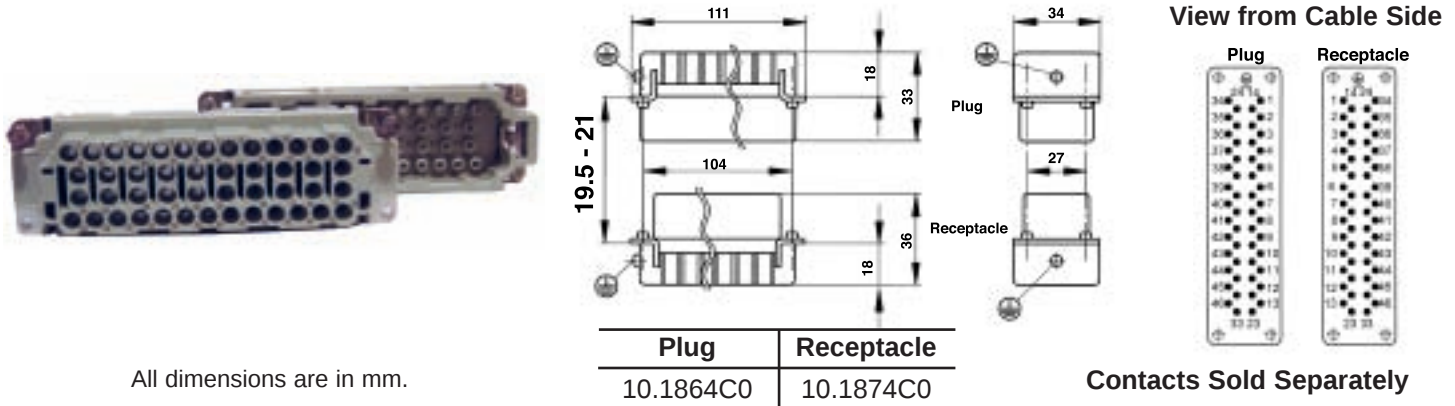
	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

EPIC® CONNECTORS

HEE 46 Plugs & Receptacles

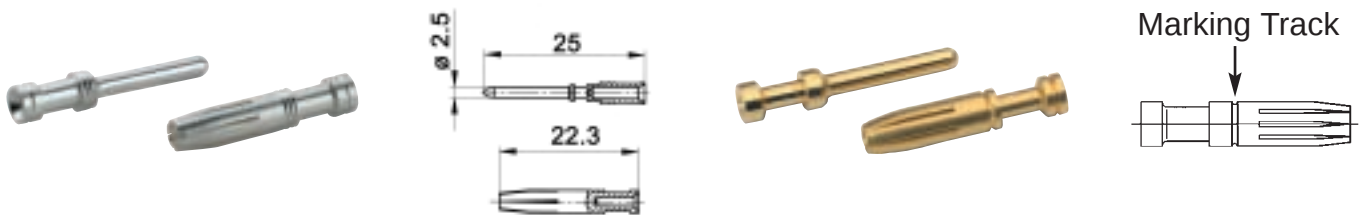


CRIMP TERMINATED: MACHINE CONTACT INSERTS



All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471



Removal Tool:
11.1825

MATING COMPONENTS

HEE 46 Plugs & Receptacles fit into the EPIC® HBE 24 Housings. Following is a quick reference for the mating components. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base for HEE 46 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1219	10.1219 NP	70.1490	70.1490 NP
	29	1"	10.1119	10.1119 NP	70.1492	70.1492 NP
Side Entry	21	3/4"	10.1139	10.1139 NP	70.1590	70.1590 NP
	29	1"	10.1239	10.1239 NP	70.1592	70.1592 NP

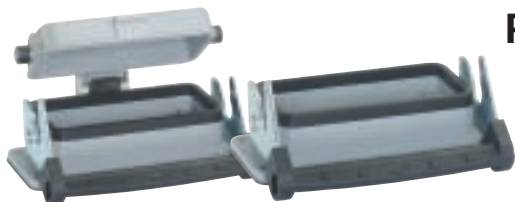
HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1444	70.1444 NP	70.1494	70.1494 NP
	29	1"	70.1446	70.1446 NP	70.1496	70.1496 NP
Side Entry	21	3/4"	70.1544	70.1544 NP	70.1594	70.1594 NP
	29	1"	70.1546	70.1546 NP	70.1596	70.1596 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1029	70.1327
With Dust Cover	10.1039	70.1337



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1059	10.1059 NP	70.1630	70.1630 NP
1 Entry	21	3/4"	10.1049	10.1049 NP	70.1620	70.1620 NP
2 with cover	21	3/4"	10.1099	10.1099 NP	70.1670	70.1670 NP
1 with cover	21	3/4"	10.1079	10.1079 NP	70.1660	70.1660 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1612	70.1612 NP	70.1632	70.1632 NP
	29	1"	70.1614	70.1614 NP	70.1634	70.1634 NP
1 Entry	21	3/4"	70.1602	70.1602 NP	70.1622	70.1622 NP
	29	1"	70.1604	70.1604 NP	70.1624	70.1624 NP
2 Entries with dust cover	21	3/4"	70.1652	70.1652 NP	70.1672	70.1672 NP
	29	1"	70.1654	70.1654 NP	70.1674	70.1674 NP
1 Entry with dust cover	21	3/4"	70.1642	70.1642 NP	70.1662	70.1662 NP
	29	1"	70.1644	70.1644 NP	70.1664	70.1664 NP



CABLE COUPLER HOODS

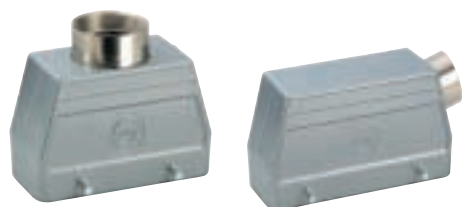
Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1279	10.1279 NP	70.1430	70.1430 NP
	29	1"	10.1179	10.1179 NP	70.1432	70.1432 NP
High Profile	21	3/4"	70.1424	70.1424 NP	70.1434	70.1434 NP
	29	1"	70.1426	70.1426 NP	70.1436	70.1436 NP



EPIC® CONNECTORS

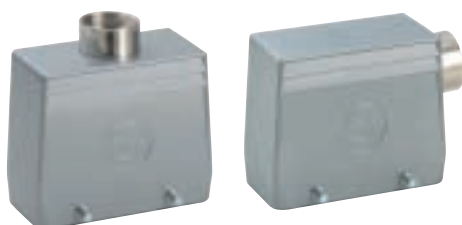
HBE 24 Housings: Double Levers on Base for HEE 46 Inserts

HOODS



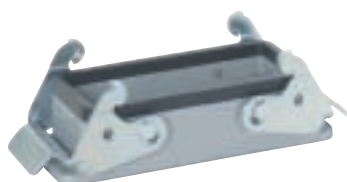
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1210	10.1210 NP	70.1510	70.1510 NP
	29	1"	10.1110	10.1110 NP	70.1512	70.1512 NP
Side Entry	21	3/4"	10.1130	10.1130 NP	70.1530	70.1530 NP
	29	1"	10.1230	10.1230 NP	70.1532	70.1532 NP



HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1504	70.1504 NP	70.1514	70.1514 NP
	29	1"	70.1506	70.1506 NP	70.1516	70.1516 NP
Side Entry	21	3/4"	70.1524	70.1524 NP	70.1534	70.1534 NP
	29	1"	70.1526	70.1526 NP	70.1536	70.1536 NP



PANEL MOUNT BASES

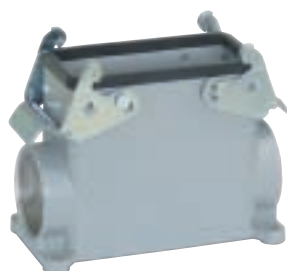
Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1020	70.1325

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1050	10.1050 NP	70.1380	70.1380 NP
1 Entry	21	3/4"	10.1040	10.1040 NP	70.1370	70.1370 NP



HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1362	70.1362 NP	70.1382	70.1382 NP
	29	1"	70.1364	70.1364 NP	70.1384	70.1384 NP
1 Entry	21	3/4"	70.1352	70.1352 NP	70.1372	70.1372 NP
	29	1"	70.1354	70.1354 NP	70.1374	70.1374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1270	10.1270 NP	70.1410	70.1410 NP
	29	1"	10.1170	10.1170 NP	70.1412	70.1412 NP
High Profile	21	3/4"	70.1404	70.1404 NP	70.1414	70.1414 NP
	29	1"	70.1406	70.1406 NP	70.1416	70.1416 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood for HEE 46 Inserts

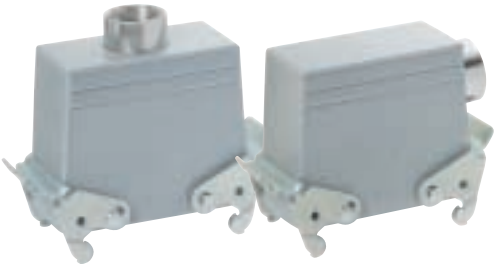
HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1220	10.1220 NP	70.1560	70.1560 NP
	29	1"	10.1120	10.1120 NP	70.1562	70.1562 NP
Side Entry	21	3/4"	10.1140	10.1140 NP	70.1580	70.1580 NP
	29	1"	10.1240	10.1240 NP	70.1582	70.1582 NP

HIGH PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1554	70.1554 NP	70.1564	70.1564 NP
	29	1"	70.1556	70.1556 NP	70.1566	70.1566 NP
Side Entry	21	3/4"	70.1574	70.1574 NP	70.1584	70.1584 NP
	29	1"	70.1576	70.1576 NP	70.1586	70.1586 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.1030	70.1335
Without Dust Cover	10.1031	-

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1090	10.1090 NP	70.1480	70.1480 NP
1 Entry	21	3/4"	10.1070	10.1070 NP	70.1470	70.1470 NP
2 Entries with dust cover	21	3/4"	70.1462	70.1462 NP	70.1482	70.1482 NP
	29	1"	70.1464	70.1464 NP	70.1484	70.1484 NP
1 Entry with dust cover	21	3/4"	70.1452	70.1452 NP	70.1472	70.1472 NP
	29	1"	70.1454	70.1454 NP	70.1474	70.1474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



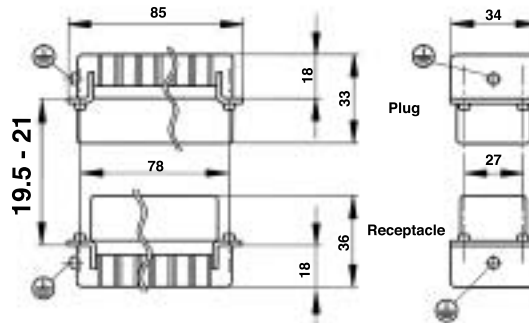
	Part #
Dust cover with single lever for HBE 24 Hoods	10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1187
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181

EPIC® CONNECTORS

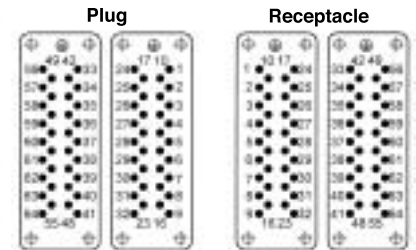
HEE 64 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from Cable Side

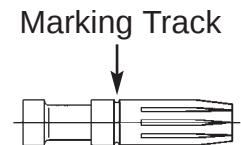
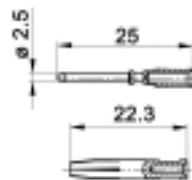
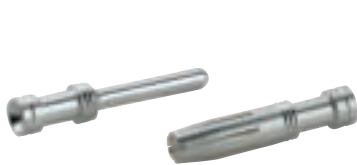


All dimensions are in mm.

Description	Plug	Receptacle
1 - 32	10.1844C0	10.1854C0
33 - 64	10.1845C0	10.1855C0

Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471



Removal Tool:
11.1825

MATING COMPONENTS

HEE 64 Plugs & Receptacles fit into the EPIC® HBE 32 Housings. Following is a quick reference for the mating components. Diagrams are located in the HBE Section of the catalog (Page 313). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 32 Housings for HEE 64 Inserts

DOUBLE LEVERS ON BASE



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1330	10.1330 NP
	29	1"	10.1340	10.1340 NP
Side Entry	21	3/4"	10.1350	10.1350 NP
	29	1"	10.1360	10.1360 NP

Part #
10.1320



# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1380	10.1380 NP
1 Entry	29	1"	10.1370	10.1370 NP

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
21	3/4"	10.1390	10.1390
29	1"	10.1395	10.1395 NP

Dust cover with double lever bolts and attachment string for panel mount or surface mount base or cable coupler hood: 10.1420

DOUBLE LEVERS ON HOOD



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	70.2050	70.2050 NP
Side Entry	29	1"	10.1366	10.1366 NP

Part #
10.1323

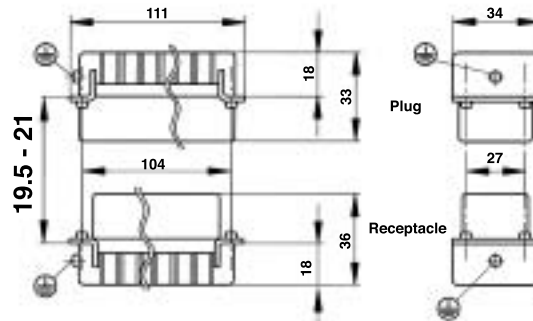
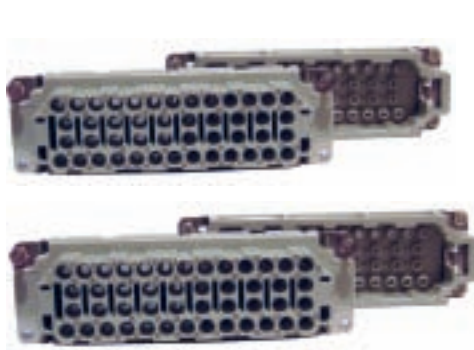
Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
29	1"	10.1373	10.1373 NP

EPIC® CONNECTORS

HEE 92 Plugs & Receptacles

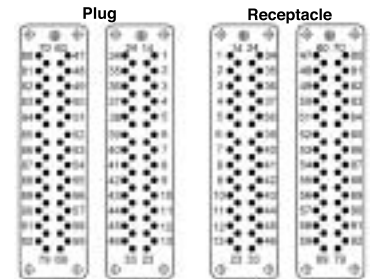


CRIMP TERMINATED: MACHINE CONTACT INSERTS



All dimensions are in mm.

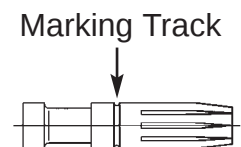
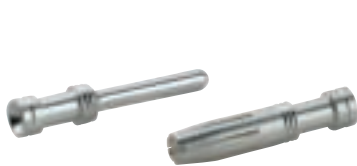
View from Cable Side



Description	Plug	Receptacle
1 - 46	10.1864C0	10.1874C0
47 - 92	10.1865C0	10.1875C0

Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1472



Crimp Dies
11.1471



Removal Tool:
11.1825

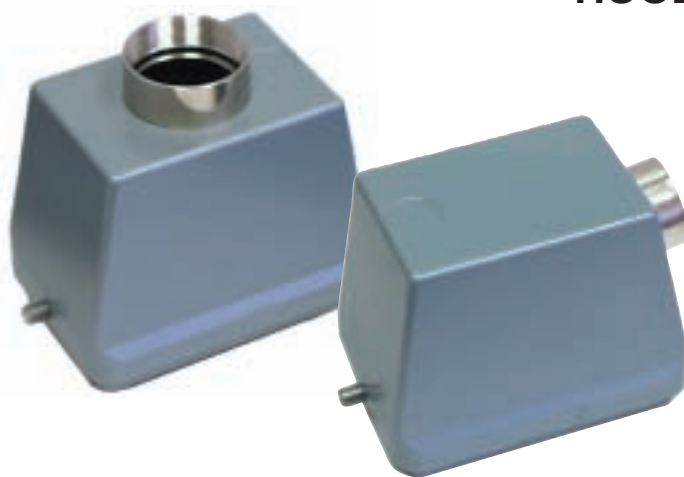
MATING COMPONENTS

HEE 92 Plugs & Receptacles fit into the EPIC® HBE 48 Housings. Following is a quick reference for the mating components. Diagrams are located in the HBE Section of the catalog (Page 317). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 48 Housings for HEE 92 Inserts

HOODS



Position of Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	10.1550	10.1550 NP
	36	1 1/4"	10.1560	10.1560 NP
	42	-	10.1570	-
Side Entry	29	1"	10.1580	10.1580 NP
	36	1 1/4"	10.1590	10.1590 NP
	42	-	10.1600	-

PANEL MOUNT BASES



Without Dust Cover	With Dust Cover with hold down screws and no dust cover bolts	With Dust Cover with hold down screws and dust cover bolts
10.1610	10.1520	10.1525

SURFACE MOUNT BASES

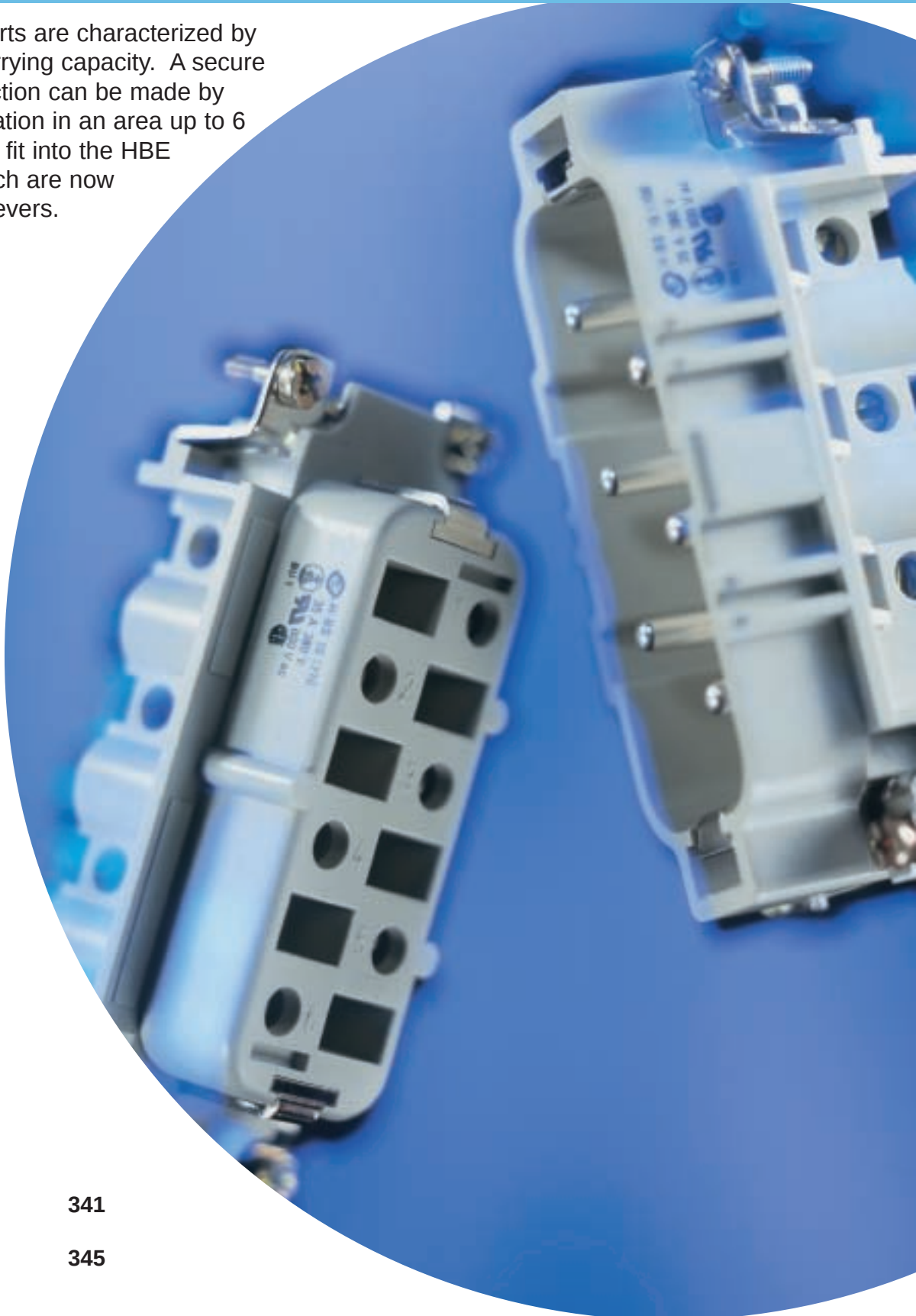


# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1660	10.1660 NP
	36	1 1/4"	10.1661	10.1661 NP
1 Entry	29	1"	10.1650	10.1650 NP
	36	1 1/4"	10.1651	10.1651 NP
2 Entries with dust cover	29	1"	10.1680	10.1680 NP
	36	1 1/4"	10.1681	10.1681 NP
1 Entry with dust cover	29	1"	10.1670	10.1670 NP
	36	1 1/4"	10.1671	10.1671 NP

EPIC® CONNECTORS

HBS Series

The HBS series inserts are characterized by their high current carrying capacity. A secure and resistant connection can be made by simple screw termination in an area up to 6 mm². These inserts fit into the HBE Series housings which are now standard with fixed levers.



HBS 6 Series 341

HBS 12 Series 345

EPIC® CONNECTORS

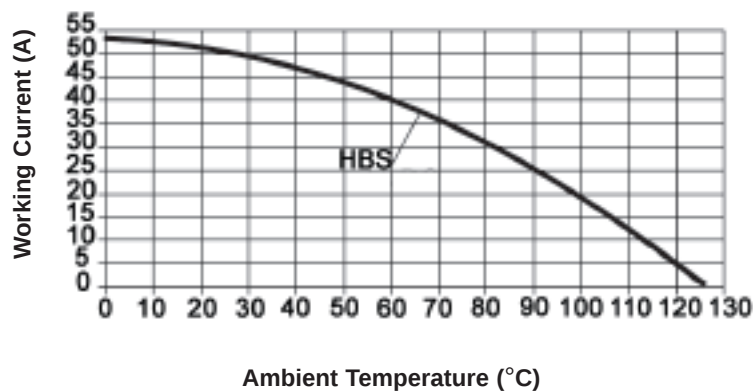
HBS Inserts Technical Data

TECHNICAL DATA

Number of Contacts:	6, 12 (+PE)	Pollution Level:	3
Rated Voltage:	VDE: 400V EPIC HBS 6 - 12 UL: 600V EPIC HBS 6 - 12 CSA: 600V EPIC HBS 6 - 12	Test Voltage:	6 kV
		Termination Type:	Screw termination: 0.5 - 6 mm ² AWG: 20 - 10
Rated Current:	VDE: 35A EPIC HBS 6 - 12 UL: 35A EPIC HBS 6 - 12 CSA: 35A EPIC HBS 6 - 12	Temperature Range:	-40°C to 125°C
		Contacts:	Copper alloy, silver plated
		Contact Resistance:	<2mOhm
		Mating Cycles:	100 (higher mating cycles depends on the application)

HBS INSERTS: DERATING CURVES

HBS: 6.0 mm² (10 AWG)



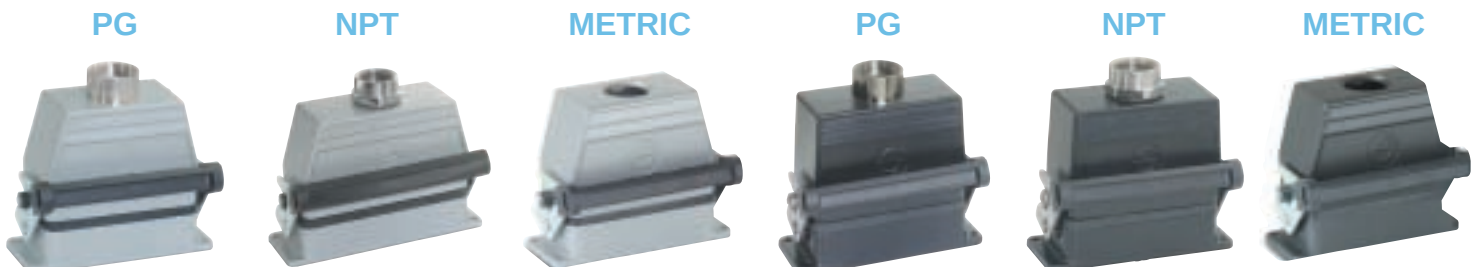
MATING COMPONENTS

HBS Plugs & Receptacles fit into EPIC® HBE Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog. Please note that metric parts are available.

Specifications:	DIN 43652	Protection class:	IP65
Temperature Range:	-40°C to +125°C	Material:	Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)

EP Black Coating (NEMA 4X)

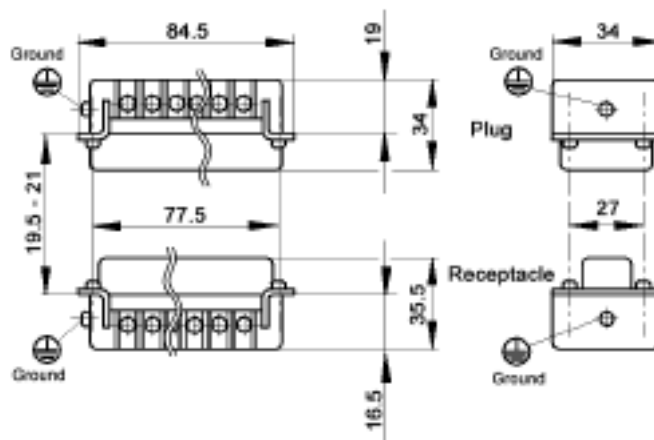
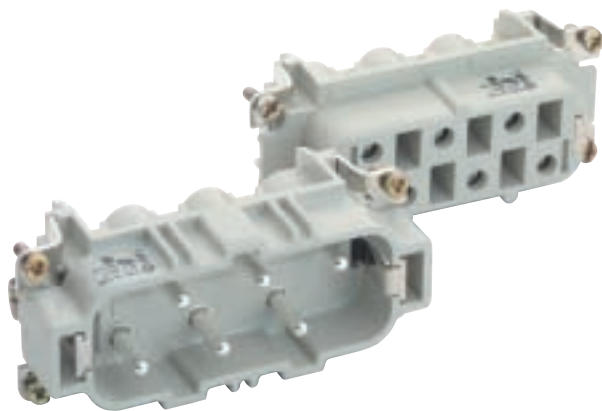


EPIC® CONNECTORS

HBS 6 Plugs & Receptacles

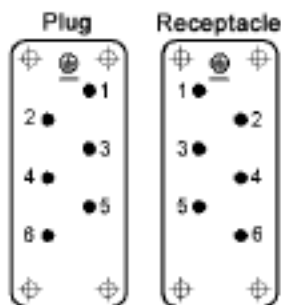


SCREW TERMINATED INSERTS

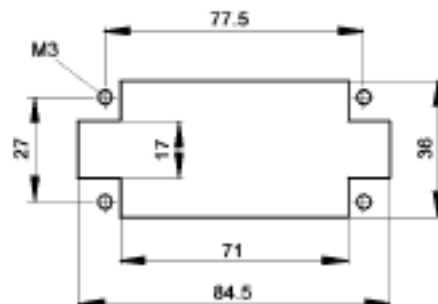


All dimensions are in mm.

View from cable side



Panel Cut-Out
(Insert Only)



	Plug	Receptacle
Screw Termination with wire protection	10.1700	10.1710

MATING COMPONENTS

HBS 6 Plugs & Receptacles fit into EPIC® HBE 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for HBS 6 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP



EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base for HBS 6 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood for HBS 6 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.0730	70.0835
Without Dust Cover	10.0731	-



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



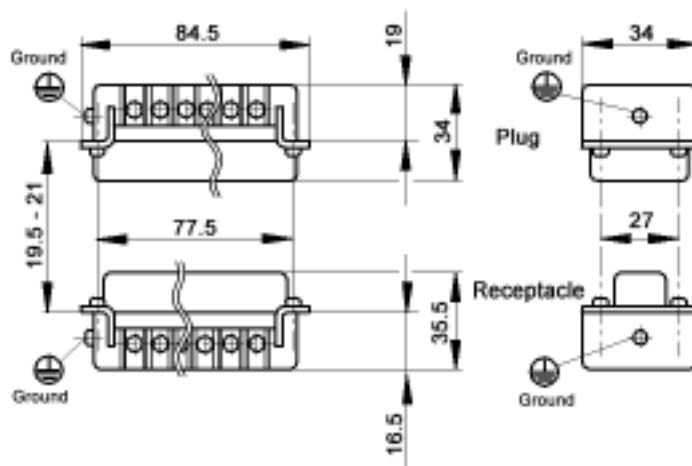
	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

EPIC® CONNECTORS

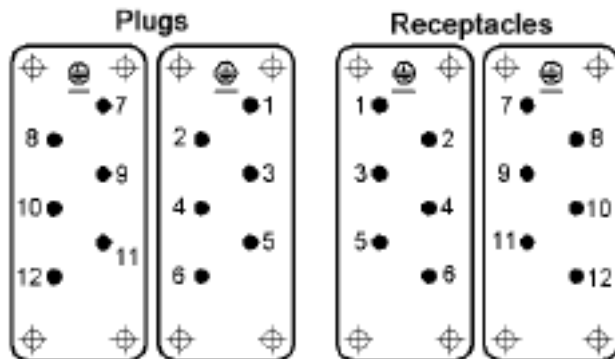
HBS 12 Plugs & Receptacles



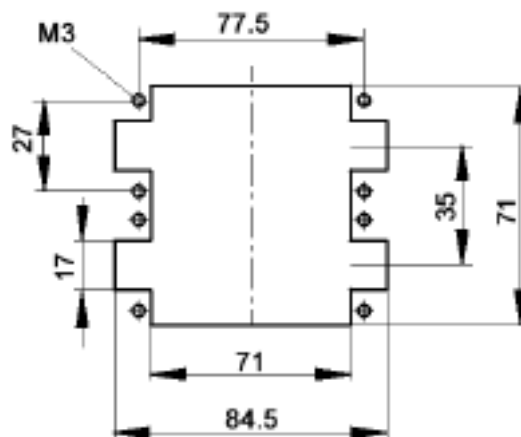
SCREW TERMINATED INSERTS



View from cable side



Panel Cut-Out
(Insert Only)



	Plug	Receptacle
Screw Termination with wire protection #1-6	10.1700	10.1710
Screw Termination with wire protection #7-12	10.1706	10.1716

MATING COMPONENTS

HBS 12 Plugs & Receptacles fit into EPIC® HBE 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 313). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 32 Housings for HBS 12 Inserts

DOUBLE LEVERS ON BASE



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1330	10.1330 NP
	29	1"	10.1340	10.1340 NP
Side Entry	21	3/4"	10.1350	10.1350 NP
	29	1"	10.1360	10.1360 NP

Part #
10.1320



# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1380	10.1380 NP
1 Entry	29	1"	10.1370	10.1370 NP

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
21	3/4"	10.1390	10.1390
29	1"	10.1395	10.1395 NP

Dust cover with double lever bolts and attachment string for panel mount or surface mount base or cable coupler hood: 10.1420

DOUBLE LEVERS ON HOOD



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	70.2050	70.2050 NP
Side Entry	29	1"	10.1366	10.1366 NP

Part #
10.1323

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
29	1"	10.1373	10.1373 NP

EPIC® CONNECTORS

HBVE Series

The HBVE series inserts are high voltage inserts which are equipped with switch contacts. The switch contacts lag when inserted which prevents insertion of the connectors when the system is alive. The switching contacts interrupt the power supply to the system before the working contacts are separated.

These inserts now fit into the HBE Series housings which are standard with fixed levers.



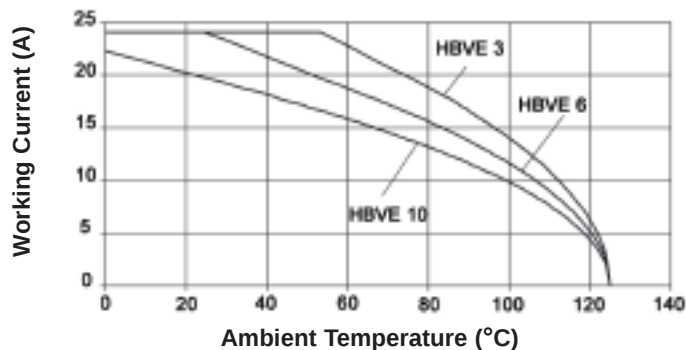
HBVE 3 Series	349
HBVE 6 Series	354
HBVE 10 Series	358

TECHNICAL DATA

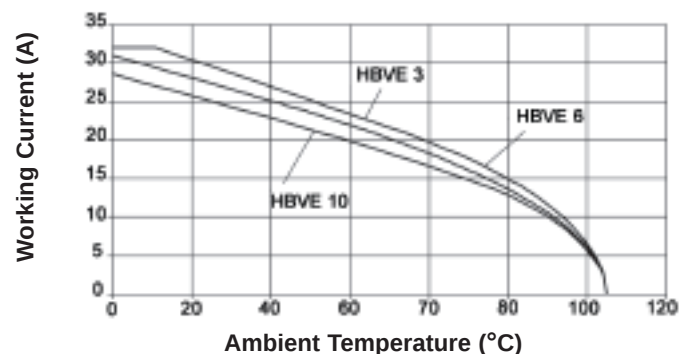
Number of Contacts:	3, 6, 10 (+PE)	Termination Type:	0.5 - 2.5 mm ² AWG: 20 - 14
Rated Voltage:		Temperature Range:	-40°C to 125°C
Screw Terminated:	VDE: 630V EPIC HBVE 3 - 10 UL: 600V EPIC HBVE 3 - 10 CSA: 600V EPIC HBVE 3 - 10	Contacts:	Copper alloy, silver plated
	VDE: 830V EPIC HBVE 3	Contact Resistance:	<2mOhm
Cage Clamp:	VDE: 16A EPIC HBVE 3 - 10	Mating Cycles:	100 (higher mating cycles depend on the application)
Rated Current:	UL: 16A EPIC HBVE 3 - 10 CSA: 16A EPIC HBVE 3 - 10		
Pollution Level:	3		
Test Voltage:	6 kV		

HBVE INSERTS TECHNICAL DATA: DERATING CURVES SCREW TERMINATED

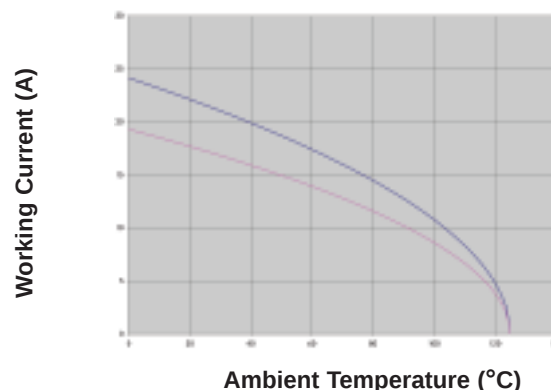
HBVE: 1.5 mm² (16 AWG)



HBVE: 2.5 mm² (14 AWG)



HBVE INSERTS TECHNICAL DATA: DERATING CURVES CAGE CLAMP



EPIC® CONNECTORS

HBVE Inserts: Technical Data

MATING COMPONENTS

HBVE Plugs & Receptacles fit into EPIC® HBE Housings. A quick reference for the mating components is shown. Diagrams are located in

the HBE Section of the catalog. Please note that metric parts are available. (See HBE Section)

Specifications: DIN 43652
Temperature Range: -40°C to +125°C

Protection class: IP65
Material: Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)

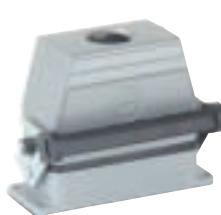
PG



NPT



METRIC



EP Black Coating (NEMA 4X)

PG



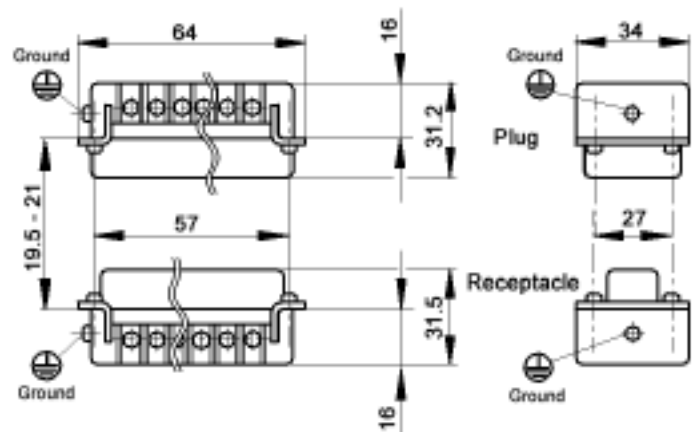
NPT



METRIC



SCREW TERMINATED INSERTS



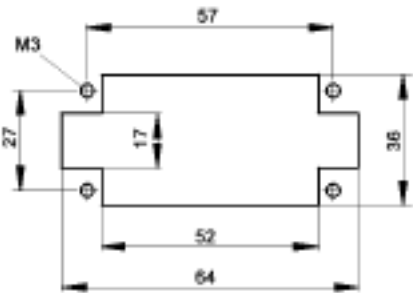
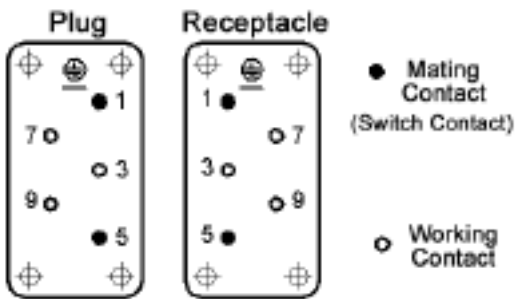
	Plug	Receptacle
Screw Termination with wire protection	10.210010	10.211010
Screw Termination without wire protection	10.210110	10.211110



SCREW TERMINATED INSERTS

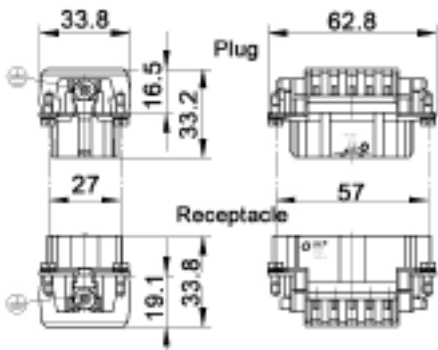
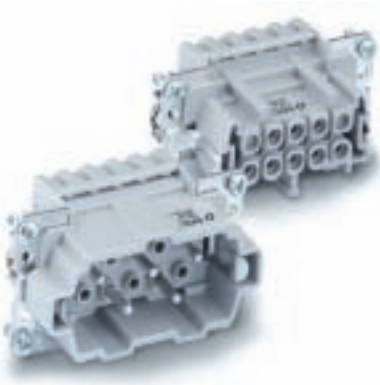
View from cable side

Panel Cut-Out
(Insert Only)



All dimensions are in mm.

HBVE 3 CAGE CLAMP INSERTS



Plug	Receptacle
10.210040	10.211040

MATING COMPONENTS

HBVE 3 Plugs & Receptacles fit into the EPIC® HBE 10 Housings. Following is a quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 283). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base for HBVE 3 Inserts

HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0409	10.0409 NP	70.0490	70.0490 NP
	21	3/4"	10.0407	10.0407 NP	70.0496	70.0496 NP
Side Entry	16	1/2"	10.0429	10.0429 NP	70.0590	70.0590 NP
	21	3/4"	10.0428	10.0428 NP	70.0596	70.0596 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0442	70.0442 NP	70.0492	70.0492 NP
	29	1"	70.0444	70.0444 NP	70.0494	70.0494 NP
Side Entry	21	3/4"	70.0542	70.0542 NP	70.0592	70.0592 NP
	29	1"	70.0544	70.0544 NP	70.0594	70.0594 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0329	70.0327
With Dust Cover	10.0339	70.0337

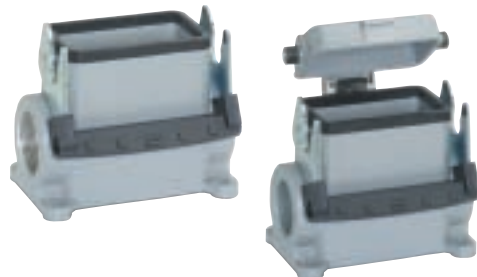
SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0359	10.0359 NP	70.0630	70.0630 NP
1 Entry	16	1/2"	10.0349	10.0349 NP	70.0620	70.0620 NP
	21	3/4"	10.0347	10.0347 NP	-	-
2 Entries with dust cover	16	1/2"	10.0389	10.0389 NP	70.0670	70.0670 NP
	-	-	-	-	-	-
1 Entry with dust cover	16	1/2"	10.0369	10.0369 NP	70.0660	70.0660 NP
	-	-	-	-	-	-

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0612	70.0612 NP	70.0632	70.0632 NP
	29	1"	70.0614	70.0614 NP	70.0634	70.0634 NP
1 Entry	21	3/4"	70.0602	70.0602 NP	70.0622	70.0622 NP
	29	1"	70.0604	70.0604 NP	70.0624	70.0624 NP
2 Entries with dust cover	21	3/4"	70.0652	70.0652 NP	70.0672	70.0672 NP
	29	1"	70.0654	70.0654 NP	70.0674	70.0674 NP
1 Entry with dust cover	21	3/4"	70.0642	70.0642 NP	70.0662	70.0662 NP
	29	1"	70.0644	70.0644 NP	70.0664	70.0664 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0469	10.0469 NP	70.0430	70.0430 NP
	21	3/4"	70.0422	70.0422 NP	70.0432	70.0432 NP
High Profile	21	3/4"	70.0424	70.0424 NP	70.0434	70.0434 NP
	29	1"	70.0426	70.0426 NP	70.0436	70.0436 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Lever on Base for for HBVE 3 Inserts

HOODS



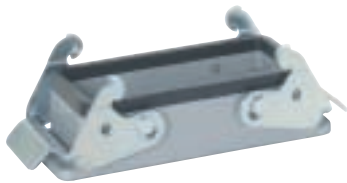
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0400	10.0400 NP	70.0510	70.0510 NP
	21	3/4"	10.0401	10.0401 NP	70.0512	70.0512 NP
Side Entry	16	1/2"	10.0420	10.0420 NP	70.0530	70.0530 NP
	21	3/4"	10.0421	10.0421 NP	70.0532	70.0532 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0504	70.0504 NP	70.0514	70.0514 NP
	29	1"	70.0506	70.0506 NP	70.0516	70.0516 NP
Side Entry	21	3/4"	70.0524	70.0524 NP	70.0534	70.0534 NP
	29	1"	70.0526	70.0526 NP	70.0536	70.0536 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0320	70.0325

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0350	10.0350 NP	70.0380	70.0380 NP
1 Entry	16	1/2"	10.0340	10.0340 NP	70.0370	70.0370 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0362	70.0362 NP	70.0382	70.0382 NP
	29	1"	70.0364	70.0364 NP	70.0384	70.0384 NP
1 Entry	21	3/4"	70.0352	70.0352 NP	70.0372	70.0372 NP
	29	1"	70.0354	70.0354 NP	70.0374	70.0374 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0460	10.0460 NP	70.0410	70.0410 NP
	21	3/4"	70.0402	70.0402 NP	70.0412	70.0412 NP
High Profile	16	1/2"	70.0404	70.0404 NP	70.0414	70.0414 NP
	21	3/4"	70.0406	70.0406 NP	70.0416	70.0416 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Hood for HBVE 3 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0410	10.0410 NP	70.0560	70.0560 NP
Side Entry	16	1/2"	10.0450	10.0450 NP	70.0580	70.0580 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0552	70.0552 NP	70.0562	70.0562 NP
	29	1"	70.0554	70.0554 NP	70.0564	70.0564 NP
Side Entry	21	3/4"	70.0572	70.0572 NP	70.0582	70.0582 NP
	29	1"	70.0574	70.0574 NP	70.0584	70.0584 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.0330	70.0335



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0380	10.0380 NP	70.0480	70.0480 NP
1 Entry	16	1/2"	10.0360	10.0360 NP	70.0470	70.0470 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0462	70.0462 NP	70.0482	70.0482 NP
	29	1"	70.0464	70.0464 NP	70.0484	70.0484 NP
1 Entry	21	3/4"	70.0452	70.0452 NP	70.0472	70.0472 NP
	29	1"	70.0454	70.0454 NP	70.0474	70.0474 NP

DUST COVERS WITH ATTACHMENT STRING



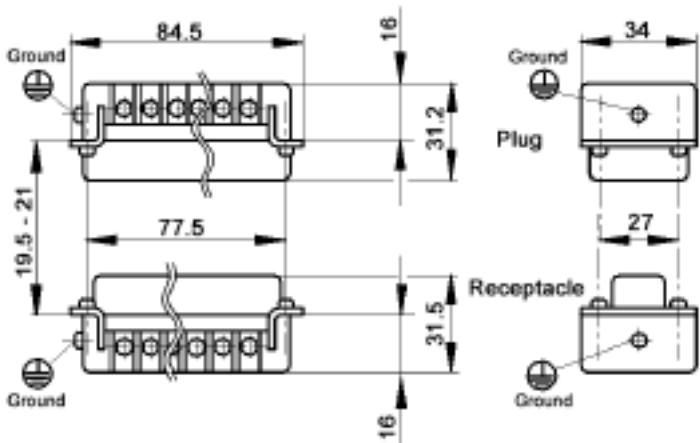
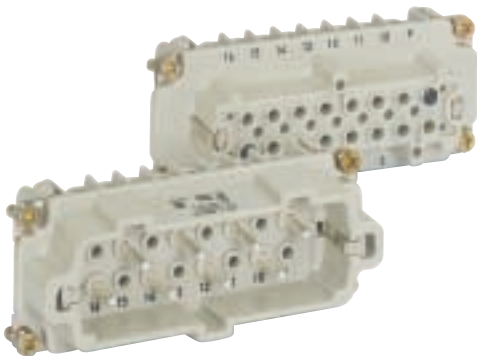
Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 10 Hoods	10.0486
Dust cover with single lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0487
Dust cover with double levers and gasket for HBE 10 Hoods	10.0485
Dust cover with double lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0470
Dust cover with double lever bolts and gasket for HBE 10 Hoods	10.0471



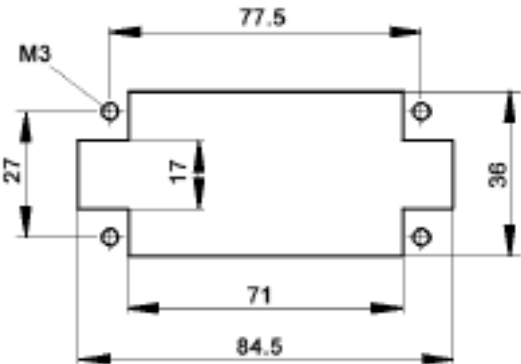
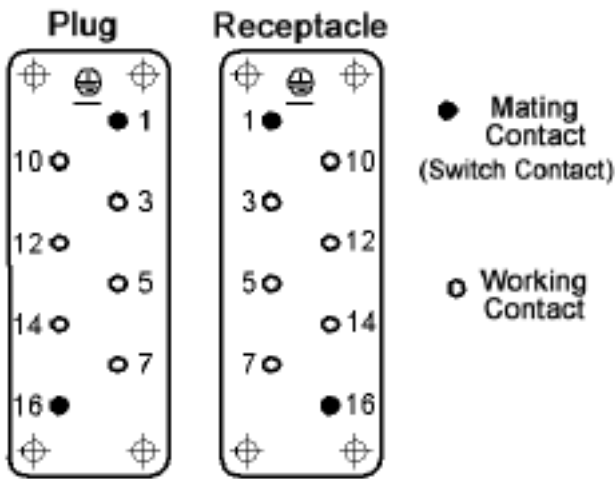
SCREW TERMINATED INSERTS



All dimensions are in mm.

View from cable side

Panel Cut-Out
(Insert Only)



	Plug	Receptacle
Screw Termination with wire protection	10.239010	10.240010
Screw Termination without wire protection	10.239110	10.240110

MATING COMPONENTS

HBVE 6 Plugs & Receptacles fit into the EPIC® HBE 16 Housings. Following is a quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for HBVE 6 Inserts



HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP



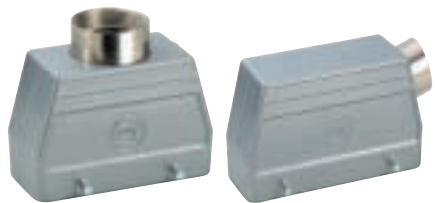
CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP

EPIC® CONNECTORS

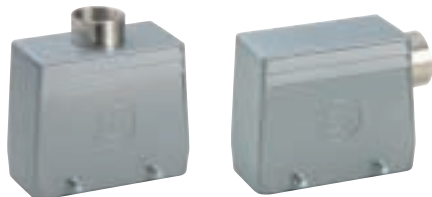
HBE 16 Housings: Double Levers on Base for HBVE 6 Inserts

HOODS



STANDARD PROFILE

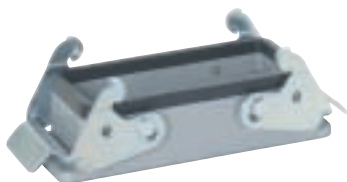
Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-



HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP



HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP

CABLE COUPLER HOODS

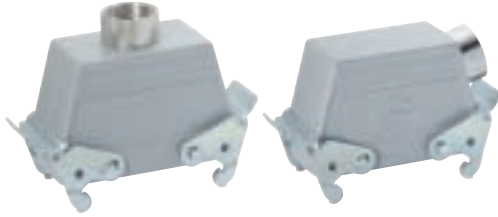


Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

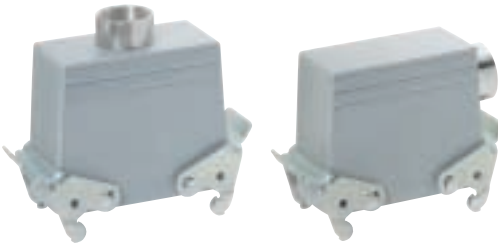
HBE 16 Housings: Double Levers on Hood for HBVE 6 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-



HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0731	-
With Dust Cover	10.0730	70.0835



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

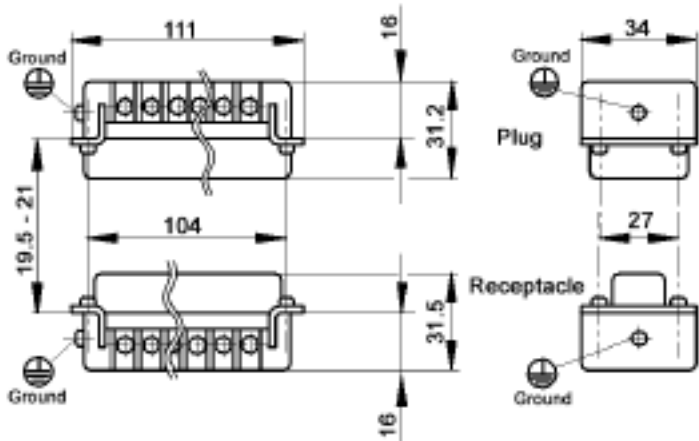
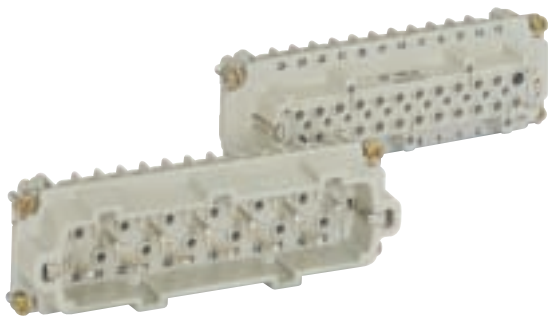
Temperature: -40°C to 125°C



	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

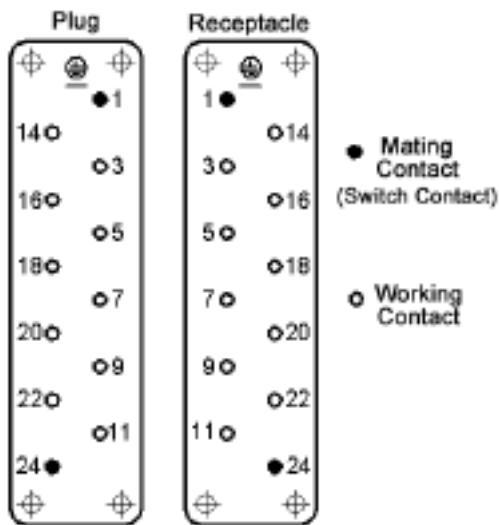


SCREW TERMINATED INSERTS

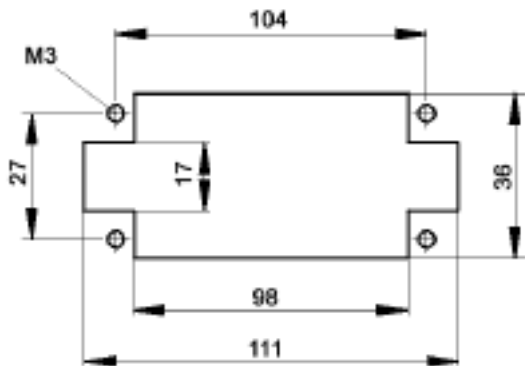


All dimensions are in mm.

View from cable side



Panel Cut-Out
(Insert Only)



	Plug	Receptacle
Screw Termination with wire protection	10.270010	10.271010
Screw Termination without wire protection	10.270110	10.271110

MATING COMPONENTS

HBVE 10 Plugs & Receptacles fit into the EPIC® HBE 24 Housings. Following is a quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base for HBVE 10 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1219	10.1219 NP	70.1490	70.1490 NP
	29	1"	10.1119	10.1119 NP	70.1492	70.1492 NP
Side Entry	21	3/4"	10.1139	10.1139 NP	70.1590	70.1590 NP
	29	1"	10.1239	10.1239 NP	70.1592	70.1592 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1444	70.1444 NP	70.1494	70.1494 NP
	29	1"	70.1446	70.1446 NP	70.1496	70.1496 NP
Side Entry	21	3/4"	70.1544	70.1544 NP	70.1594	70.1594 NP
	29	1"	70.1546	70.1546 NP	70.1596	70.1596 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1029	70.1327
With Dust Cover	10.1039	70.1337

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1059	10.1059 NP	70.1630	70.1630 NP
1 Entry	21	3/4"	10.1049	10.1049 NP	70.1620	70.1620 NP
2 with cover	21	3/4"	10.1099	10.1099 NP	70.1670	70.1670 NP
1 with cover	21	3/4"	10.1079	10.1079 NP	70.1660	70.1660 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1612	70.1612 NP	70.1632	70.1632 NP
	29	1"	70.1614	70.1614 NP	70.1634	70.1634 NP
1 Entry	21	3/4"	70.1602	70.1602 NP	70.1622	70.1622 NP
	29	1"	70.1604	70.1604 NP	70.1624	70.1624 NP
2 Entries with dust cover	21	3/4"	70.1652	70.1652 NP	70.1672	70.1672 NP
	29	1"	70.1654	70.1654 NP	70.1674	70.1674 NP
1 Entry with dust cover	21	3/4"	70.1642	70.1642 NP	70.1662	70.1662 NP
	29	1"	70.1644	70.1644 NP	70.1664	70.1664 NP



CABLE COUPLER HOODS

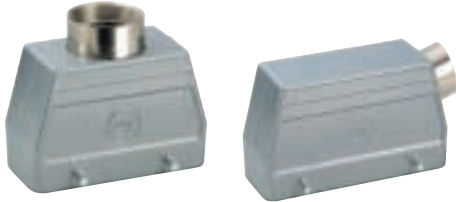
Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1279	10.1279 NP	70.1430	70.1430 NP
	29	1"	10.1179	10.1179 NP	70.1432	70.1432 NP
High Profile	21	3/4"	70.1424	70.1424 NP	70.1434	70.1434 NP
	29	1"	70.1426	70.1426 NP	70.1436	70.1436 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base for HBVE 10 Inserts

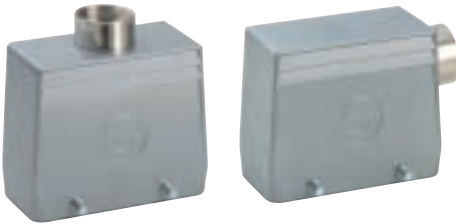
HOODS

STANDARD PROFILE

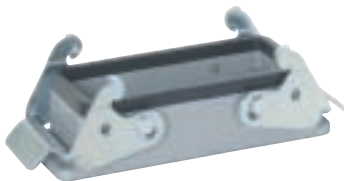


Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1210	10.1210 NP	70.1510	70.1510 NP
	29	1"	10.1110	10.1110 NP	70.1512	70.1512 NP
Side Entry	21	3/4"	10.1130	10.1130 NP	70.1530	70.1530 NP
	29	1"	10.1230	10.1230 NP	70.1532	70.1532 NP

HIGH PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1504	70.1504 NP	70.1514	70.1514 NP
	29	1"	70.1506	70.1506 NP	70.1516	70.1516 NP
Side Entry	21	3/4"	70.1524	70.1524 NP	70.1534	70.1534 NP
	29	1"	70.1526	70.1526 NP	70.1536	70.1536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1020	70.1325

SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1050	10.1050 NP	70.1380	70.1380 NP
1 Entry	21	3/4"	10.1040	10.1040 NP	70.1370	70.1370 NP

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1362	70.1362 NP	70.1382	70.1382 NP
	29	1"	70.1364	70.1364 NP	70.1384	70.1384 NP
1 Entry	21	3/4"	70.1352	70.1352 NP	70.1372	70.1372 NP
	29	1"	70.1354	70.1354 NP	70.1374	70.1374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1270	10.1270 NP	70.1410	70.1410 NP
	29	1"	10.1170	10.1170 NP	70.1412	70.1412 NP
High Profile	21	3/4"	70.1404	70.1404 NP	70.1414	70.1414 NP
	29	1"	70.1406	70.1406 NP	70.1416	70.1416 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood for HBVE 10 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1220	10.1220 NP	70.1560	70.1560 NP
	29	1"	10.1120	10.1120 NP	70.1562	70.1562 NP
Side Entry	21	3/4"	10.1140	10.1140 NP	70.1580	70.1580 NP
	29	1"	10.1240	10.1240 NP	70.1582	70.1582 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1554	70.1554 NP	70.1564	70.1564 NP
	29	1"	70.1556	70.1556 NP	70.1566	70.1566 NP
Side Entry	21	3/4"	70.1574	70.1574 NP	70.1584	70.1584 NP
	29	1"	70.1576	70.1576 NP	70.1586	70.1586 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.1030	70.1335
Without Dust Cover	10.1031	-

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1090	10.1090 NP	70.1480	70.1480 NP
1 Entry	21	3/4"	10.1070	10.1070 NP	70.1470	70.1470 NP
2 Entries with dust cover	21	3/4"	70.1462	70.1462 NP	70.1482	70.1482 NP
	29	1"	70.1464	70.1464 NP	70.1484	70.1484 NP
1 Entry with dust cover	21	3/4"	70.1452	70.1452 NP	70.1472	70.1472 NP
	29	1"	70.1454	70.1454 NP	70.1474	70.1474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



	Part #
Dust cover with single lever for HBE 24 Hoods	10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1187
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181

EPIC® CONNECTORS

HD Series

The HD series inserts are designed for use in industries where a large numbers of contacts are required. These crimp inserts are available with stamped and formed or machine contacts. These inserts fit into the HA and HBE Series housings which are standard with fixed levers.



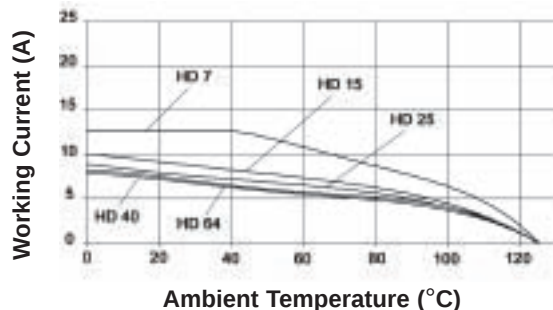
HD 7 Series	365
HD 8 Series	367
HD 15 Series	369
HD 25 Series	372
HD 40 Series	375
HD 50 Series	380
HD 64 Series	384
HD 80 Series	389
HD 128 Series	392

TECHNICAL DATA

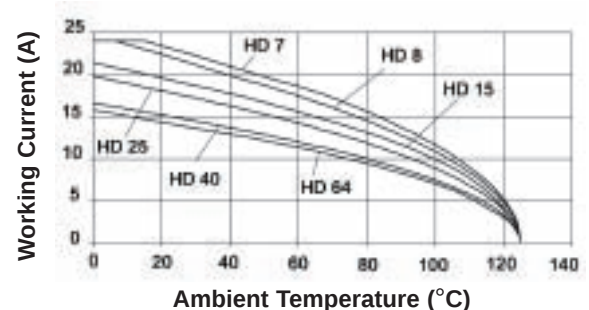
Number of Contacts:	7, 8, 15, 25, 40, 50, 64, 80, 128(+PE)	Termination Type:	Crimp termination:
Rated Voltage:	VDE: 42V (Metal Housing) 250V (Plastic Housing) EPIC HD 7 - 8 250V EPIC HD 15 - 128 UL: 600V EPIC HD 7 - 128	Temperature Range:	0.14 - 2.5 mm ² AWG: 22 - 14 -40°C to 125°C
Rated Current:	VDE: 10A EPIC HD 7 - 128 UL: 10A EPIC HD 7 - 128	Contacts:	Copper alloy, silver plated/ gold plated
Pollution Level:	3	Contact Resistance:	<2mOhm <3mOhm for HD 40/ 64/ 80/ 128 for Machined Contacts
Test Voltage:	2 kV 2.5 kV for HD 40/ 64/ 80/ 128 for Machined Contacts	Mating Cycles:	100 (higher mating cycles depends on the application)

HD INSERTS: DERATING CURVES

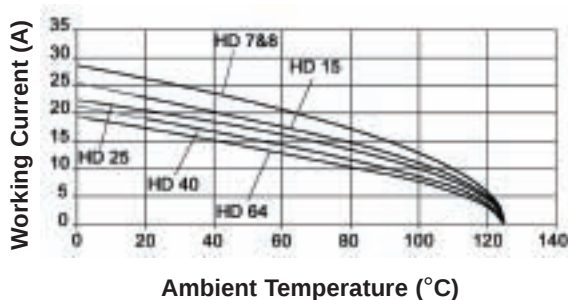
HD STAMPED & FORMED:
0.5 mm² (20 AWG)



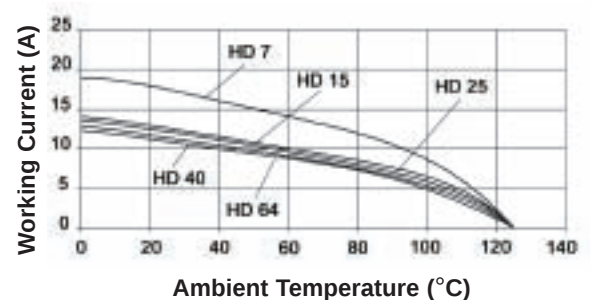
HD CRIMP MACHINE:
1.5 mm² (16 AWG)



HD CRIMP MACHINE:
2.5 mm² (14 AWG)

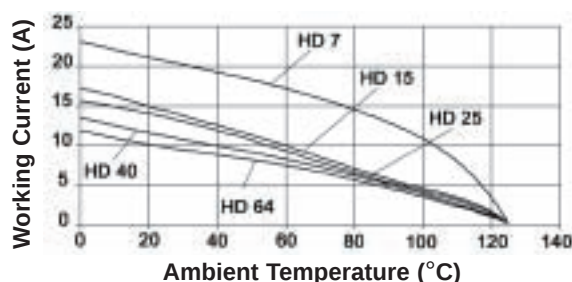


HD STAMPED & FORMED:
1.5 mm² (16 AWG)



HD INSERTS: DERATING CURVES

HD STAMPED & FORMED:
2.5 mm² (14 AWG)



MATING COMPONENTS

HD Plugs & Receptacles fit into EPIC® HA or HBE Housings. A quick reference for the mating components is shown. Diagrams are located in the HA or HBE Section of the catalog. Please note that metric parts are available.

Specifications: DIN 43652
Temperature Range: -40°C to +125°C

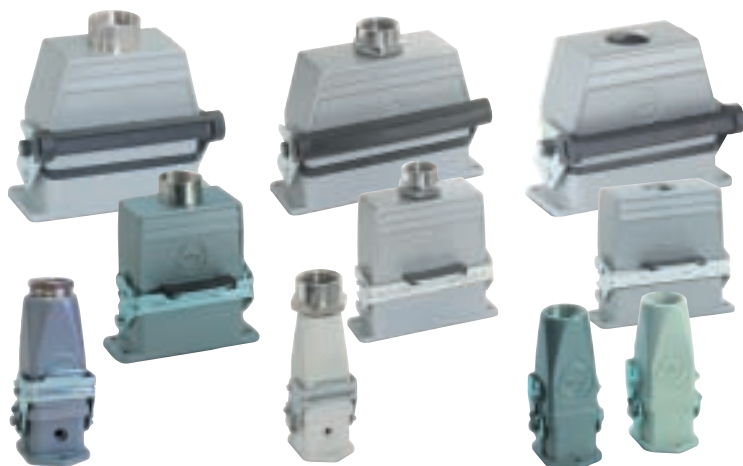
Protection class: IP65
Material: Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)

PG

NPT

METRIC



EP Black Coating (NEMA 4X)

PG

NPT

METRIC



EPIC® CONNECTORS

HD 7 Plugs & Receptacles

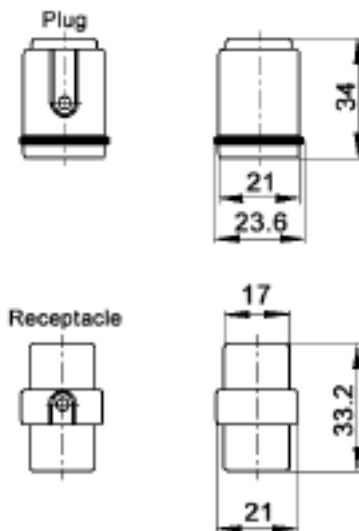


CRIMP TERMINATED: MACHINE CONTACT INSERTS

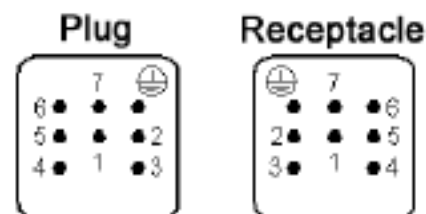


Plug	Receptacle
11.2505	11.2515

Contacts Sold Separately



View from Cable Side



All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM



Bags of 100

mm²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



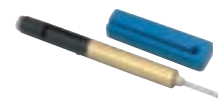
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

FIBER OPTIC CONTACTS & TOOLS



Pin	Socket
11.2141	11.2191

Fiber Optic
Assembly Set
11.184700



EPIC® CONNECTORS

HD 7 Plugs & Receptacles



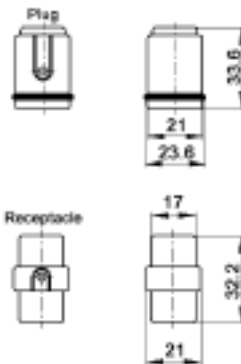
CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS



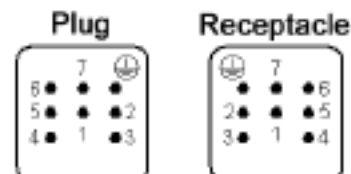
Contacts Sold Separately

Plug	Receptacle
11.2500	11.2510

Coding Pin 11.1620
Removal Tool: 11.1621

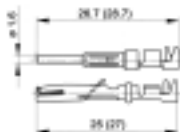


View from Cable Side



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

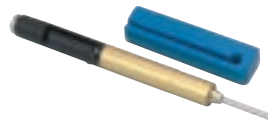
CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 7 Plugs & Receptacles fit into EPIC® HA 3/4 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 239). Please note that metric parts are available.

EPIC® CONNECTORS

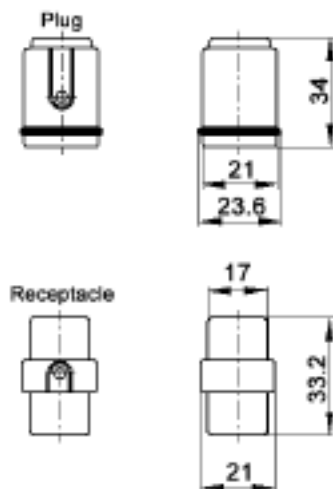
HD 8 Plugs & Receptacles



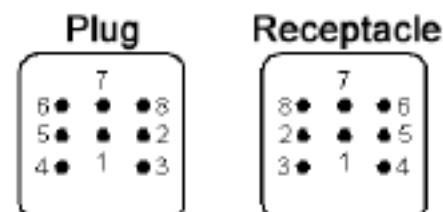
CRIMP TERMINATED: MACHINE CONTACT INSERTS



Plug	Receptacle
11.2525	11.2535
Contacts Sold Separately	



View from Cable Side



All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



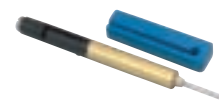
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

FIBER OPTIC CONTACTS & TOOLS



Pin	Socket
11.2141	11.2191

Fiber Optic
Assembly Set
11.184700



EPIC® CONNECTORS

HA 3/4 Housings: Single Lever on Base for HD 7/8 Inserts

HOODS



TOP ENTRY

Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5121 NP	10.4265
Black Plastic	11	1/2"	10.4255 NP	10.4267
Grey Plastic	11	1/2"	10.4260 NP	10.4264

SIDE ENTRY

Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5123 NP	10.4275
Black Plastic	11	1/2"	10.4273 NP	10.6206
Grey Plastic	11	1/2"	10.4270 NP	10.4271

PANEL MOUNT BASES

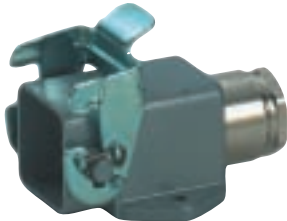


Grey Metal	
10.4225	
Black Plastic	Grey Plastic
10.4222	10.4220

Grey Metal	
10.4235	
Black Plastic	Grey Plastic
10.4231	10.4230



SURFACE MOUNT BASES



Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5127 NP	10.4245
Black Plastic	11	1/2"	10.5117 NP	10.4247
Grey Plastic	11	1/2"	10.4240 NP	10.4242

CABLE COUPLER HOOD



Material	Size of Entry		Without Cable Gland	With Cable Gland
	PG	NPT	NPT Part #	PG Part #
Zinc Die Cast	11	1/2"	10.5129 NP	10.4295
Black Plastic	11	1/2"	10.4292 NP	10.6203
Grey Plastic	11	1/2"	10.4290 NP	10.4291

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin or Aluminum

Temperature: -40°C to 125°C

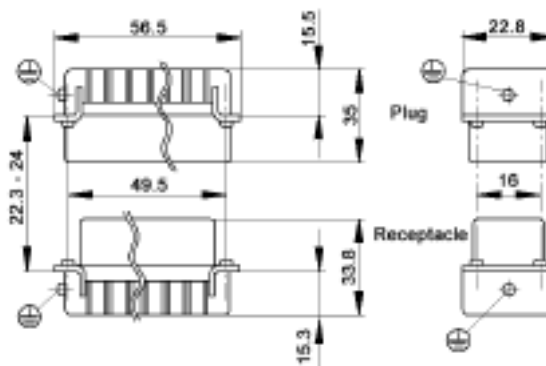
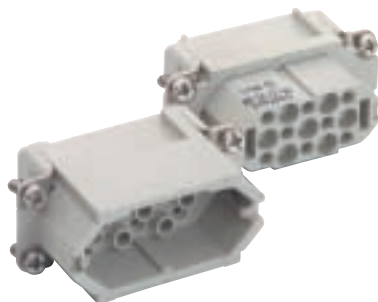
Covers for Panel Mount or Surface Mount Bases/ and Cable Coupler Hoods	Part # with string	Part # without string
Dust Cover for HA 3/4 Housings with Male Insert	10.4304	10.4300
Metal Dust Cover for HA 3/4 Housings with Male Insert	10.5130	10.4303
Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)	10.4301	-
Metal Dust Cover for HA 3/4 Housings with Female Insert (includes gasket)	10.5131	-

EPIC® CONNECTORS

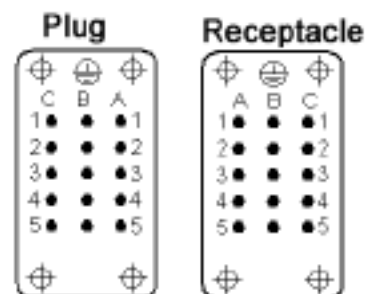
HD 15 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



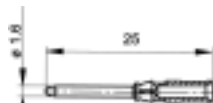
Contacts Sold Separately

Plug	Receptacle
11.2832	11.2822

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



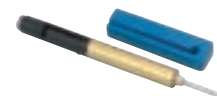
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

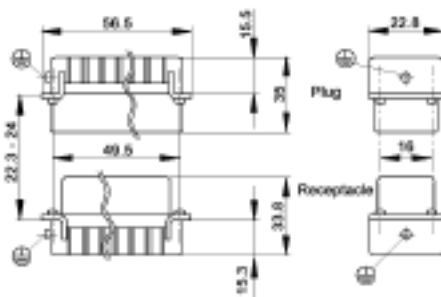
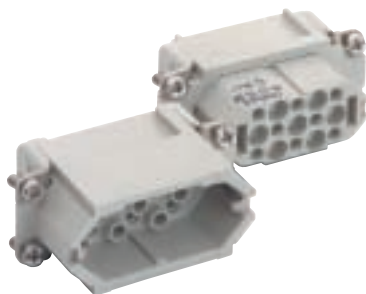
HD 15 Plugs & Receptacles fit into EPIC® HA 10 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 242). Please note that metric parts are available.

EPIC® CONNECTORS

HD 15 Plugs & Receptacles



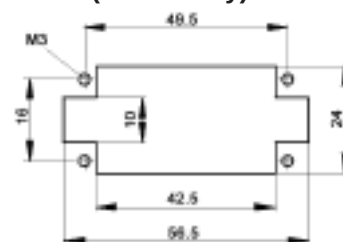
CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS



Plug	Receptacle
11.2550	11.2560

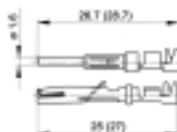
Contacts Sold Separately

Panel Cut-Out (Insert Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

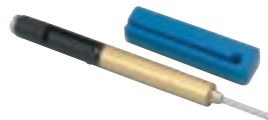
CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 15 Plugs & Receptacles fit into EPIC® HA 10 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 242). Please note that metric parts are available.



EPIC® CONNECTORS

HA 10 Housings: Single Lever on Base for HD 15 Inserts



HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	13.5	1/2"	10.446010	10.4460 NP	-	-
	16	1/2"	10.446110	10.4461 NP	70.4610	70.4610 NP
Side Entry	16	1/2"	10.445010	10.4450 NP	70.4630	70.4630 NP
	21	3/4"	10.445510	10.4455 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	70.4602	70.4602 NP	70.4612	70.4612 NP
	21	3/4"	70.4604	70.4604 NP	70.4614	70.4614 NP
Side Entry	16	1/2"	70.4622	70.4622 NP	70.4632	70.4632 NP
	21	3/4"	70.4624	70.4624 NP	70.4634	70.4634 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4420	70.4425
With Dust Cover	70.4440	70.4445

SURFACE MOUNT BASES

WITHOUT DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	10.4481	10.4481 NP	70.4472	70.4472 NP
	21	3/4"	10.4480	10.4480 NP	70.4474	70.4474 NP
2 Entries	16	1/2"	10.4501	10.4501 NP	70.4482	70.4482 NP
	21	3/4"	10.4500	10.4500 NP	70.4484	70.4484 NP

WITH DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	70.4552	70.4552 NP	70.4572	70.4572 NP
	21	3/4"	70.4554	70.4554 NP	70.4574	70.4574 NP
2 Entries	16	1/2"	70.4562	70.4562 NP	70.4582	70.4582 NP
	21	3/4"	70.4564	70.4564 NP	70.4584	70.4584 NP



CABLE COUPLER HOOD

Profile	Size of Entry		Without Cable Gland		With Cable Gland	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	13.5	1/2"	10.4390	10.4390 NP	-	-
	16	1/2"	70.4500	70.4500 NP	70.4510	70.4510 NP
High Profile	21	3/4"	70.4504	70.4504 NP	70.4514	70.4514 NP

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part # with string	Part # without string
Dust cover for HA 10 Panel Mount or Surface Mount Base/ Cable Coupler hoods (includes gasket)	10.4575	10.4577
Dust cover for HA 10 Hoods	10.4576	10.4578

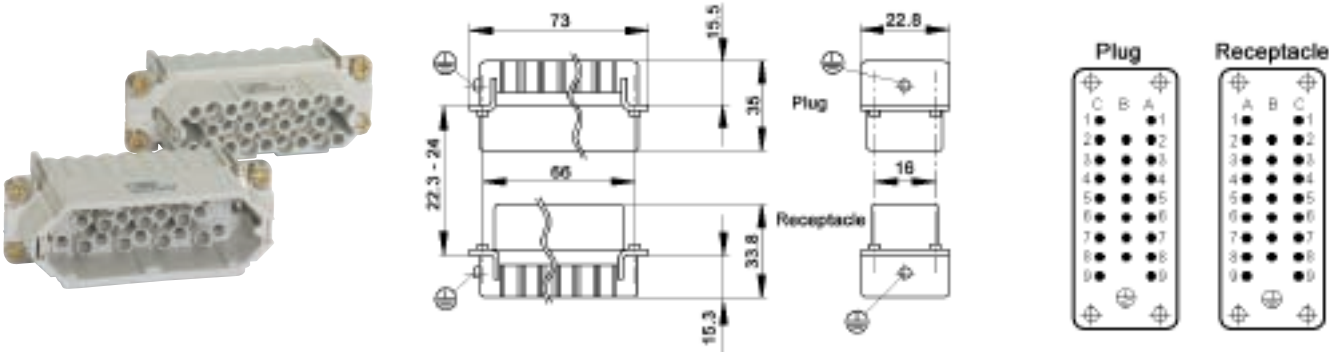
EPIC® CONNECTORS

HD 25 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS

View from cable side

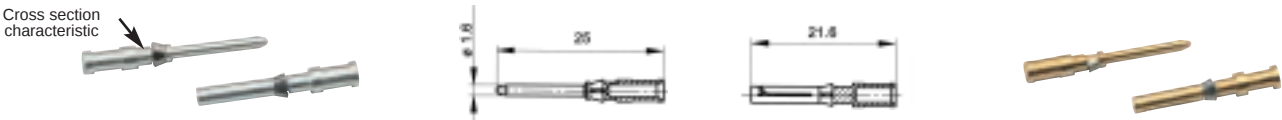


Contacts Sold Separately

Plug	Receptacle
11.2833	11.2823

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM



Bags of 100

mm²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



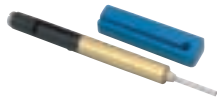
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HD 25 Plugs & Receptacles fit into EPIC® HA 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 245). Please note that metric parts are available.

EPIC® CONNECTORS

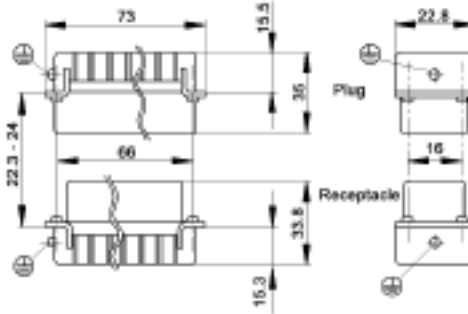
HD 25 Plugs & Receptacles



CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS

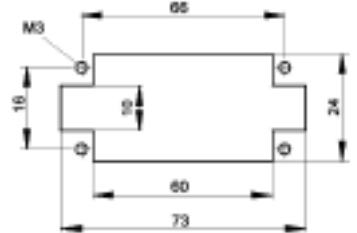


Contacts Sold Separately



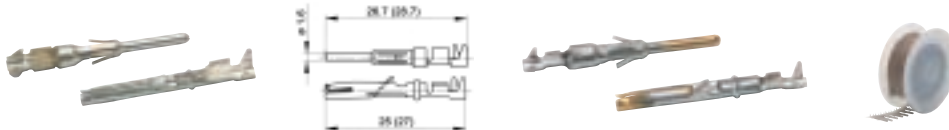
Plug	Receptacle
11.2600	11.2610

Panel Cut-Out
(Insert Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

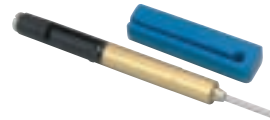
CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 25 Plugs & Receptacles fit into EPIC® HA 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 245). Please note that metric parts are available.

EPIC® CONNECTORS

HA 16 Housings: Single Lever on Base for HD 25 Inserts



HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.565010	10.5650 NP	70.4910	70.4910 NP
	21	3/4"	10.565210	10.5652 NP	-	-
Side Entry	16	1/2"	10.564010	10.5640 NP	70.4930	70.4930 NP
	21	3/4"	10.564510	10.5645 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	70.4902	70.4902 NP	70.4912	70.4912 NP
	21	3/4"	70.4904	70.4904 NP	70.4914	70.4914 NP
Side Entry	16	1/2"	70.4922	70.4922 NP	70.4932	70.4932 NP
	21	3/4"	70.4924	70.4924 NP	70.4934	70.4934 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4620	70.4725
With Dust Cover	70.4740	70.4745

SURFACE MOUNT BASES

WITHOUT DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	10.5671	10.5671 NP	70.4772	70.4772 NP
	21	3/4"	10.5670	10.5670 NP	70.4774	70.4774 NP
2 Entries	16	1/2"	10.5681	10.5681 NP	70.4782	70.4782 NP
	21	3/4"	10.5680	10.5680 NP	70.4784	70.4784 NP

WITH DUST COVER

Number of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	16	1/2"	70.4852	70.4852 NP	70.4872	70.4872 NP
	21	3/4"	70.4854	70.4854 NP	70.4874	70.4874 NP
2 Entries	16	1/2"	70.4862	70.4862 NP	70.4882	70.4882 NP
	21	3/4"	70.4864	70.4864 NP	70.4884	70.4884 NP



CABLE COUPLER HOOD

Profile	Size of Entry		Without Cable Gland		With Cable Gland	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.5630	10.5630 NP	70.4810	70.4810 NP
High Profile	16	1/2"	70.4802	70.4802 NP	70.4812	70.4812 NP
	21	3/4"	70.4804	70.4804 NP	70.4814	70.4814 NP

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

Temperature: -40°C to 125°C

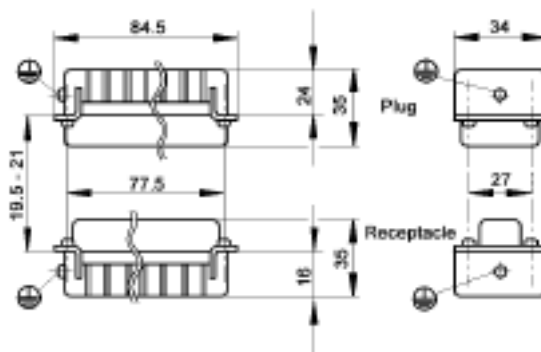
	Part # with string	Part # without string
Dust cover for HA 16 Panel Mount or Surface Mount Base/ Cable Coupler hoods (includes gasket)	10.4695	10.4697
Dust cover for HA 16 Hoods	10.4696	10.4698

EPIC® CONNECTORS

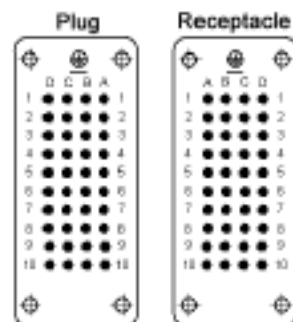
HD 40 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



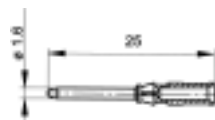
Contacts Sold Separately

Plug	Receptacle
11.2652	11.2662

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



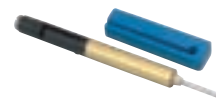
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HD 40 Plugs & Receptacles fit into EPIC® HBE 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

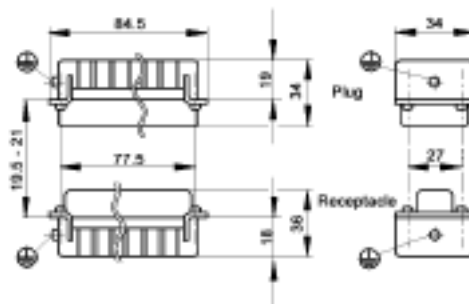
HD 40 Plugs & Receptacles



CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS

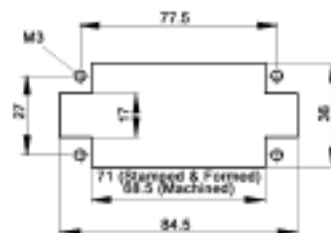


Contacts Sold Separately



Plug	Receptacle
11.2650	11.2660

Panel Cut-Out (Insert Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 40 Plugs & Receptacles fit into EPIC® HBE 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for HD 40 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP



EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base for HD 40 Inserts

HOODS

STANDARD PROFILE

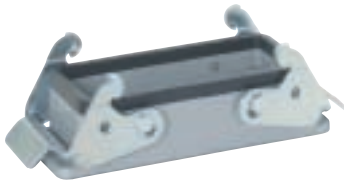
Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP



PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP



CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood for HD 40 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0731	-
With Dust Cover	10.0730	70.0835



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

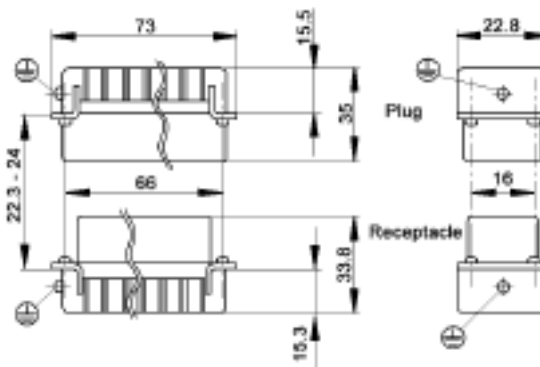
EPIC® CONNECTORS

HD 50 Plugs & Receptacles

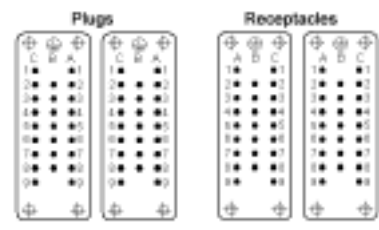


CRIMP TERMINATED: MACHINE CONTACT INSERTS





View from cable side



Contacts Sold Separately

Plug	Receptacle
11.2602 (2X)	11.2612 (2X)

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM







Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



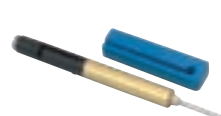
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HD 50 Plugs & Receptacles fit into EPIC® HA 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 249). Please note that metric parts are available.

EPIC® CONNECTORS

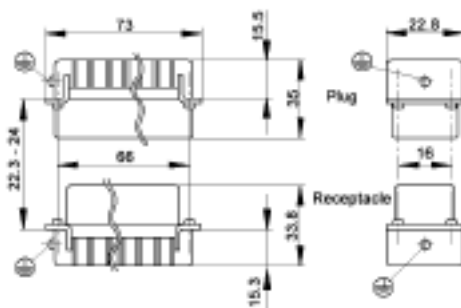
HD 50 Plugs & Receptacles



CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS

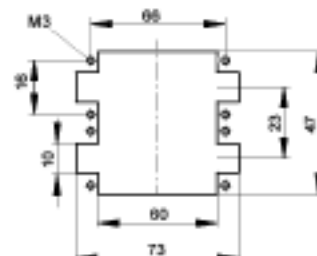


Contacts Sold Separately



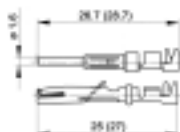
Plug	Receptacle
11.2600 (2X)	11.2610 (2X)

Panel Cut-Out
(Inserts Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 50 Plugs & Receptacles fit into EPIC® HA 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HA Section of the catalog (Page 249). Please note that metric parts are available.

EPIC® CONNECTORS

HA 32 Housings: Double Levers on Base for HD 50 Inserts

HOODS



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.5820	10.5820 NP	70.5212	70.5212 NP
	29	1"	10.5830	10.5830 NP	70.5214	70.5214 NP
Side Entry	21	3/4"	10.5760	10.5760 NP	70.5232	70.5232 NP
	29	1"	10.5770	10.5770 NP	70.5234	70.5234 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4720	70.5025

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry	21	3/4"	10.4740	10.4740 NP	70.5072	70.5072 NP
	29	1"	10.4741	10.4741 NP	70.5074	70.5074 NP
2 Entries	21	3/4"	10.4820	10.4820 NP	70.5082	70.5082 NP
	29	1"	10.4821	10.4821 NP	70.5084	70.5084 NP

CABLE COUPLER HOOD



Size of Entry		Standard Grey Coating		Black Coating (EP)	
PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
21	3/4"	10.5880	10.5880 NP	70.5110	70.5110 NP
29	1"	10.5885	10.5885 NP	70.5112	70.5112 NP

DUST COVERS WITH OR WITHOUT ATTACHMENT STRING



Material: Thermoplastic Resin

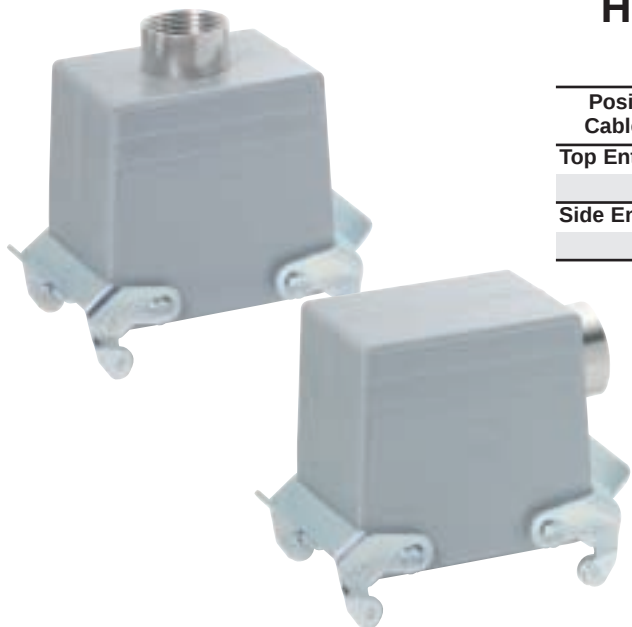
Temperature: -40°C to 125°C

	Part # with string	Part # without string
Dust cover for HA 32 Panel Mount or Surface Mount Base/ Cable Coupler hoods	10.4815	10.4817
Dust cover for HA 32 Hoods (includes gasket)	10.4816	10.4818

EPIC® CONNECTORS

HA 32 Housings: Double Levers on Hood for HD 50 Inserts

HOODS



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.5840	10.5840 NP	70.5262	70.5262 NP
	29	1"	10.5850	10.5850 NP	70.5264	70.5264 NP
Side Entry	21	3/4"	10.5780	10.5780 NP	70.5282	70.5282 NP
	29	1"	10.5790	10.5790 NP	70.5284	70.5284 NP

PANEL MOUNT BASES



WITH DUST COVER

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.4731	-
With Dust Cover	70.5030	70.5035

SURFACE MOUNT BASES



WITH DUST COVER

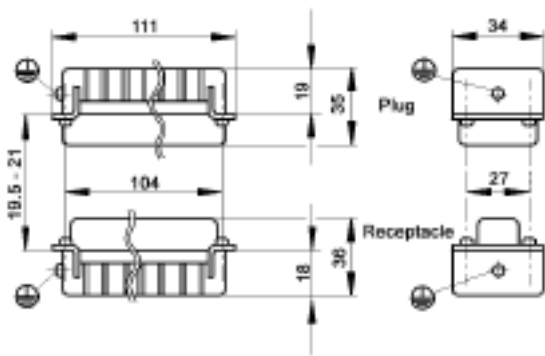
# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
1 Entry with dust cover	21	3/4"	70.5152	70.5152 NP	70.5172	70.5172 NP
	29	1"	70.5154	70.5154 NP	70.5174	70.5174 NP
2 Entries with dust cover	21	3/4"	70.5162	70.5162 NP	70.5182	70.5182 NP
	29	1"	70.5164	70.5164 NP	70.5184	70.5184 NP

EPIC® CONNECTORS

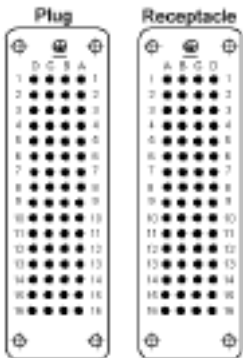
HD 64 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



Contacts Sold Separately

Plug	Receptacle
11.2720	11.2730

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100							
mm²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



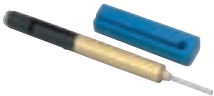
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

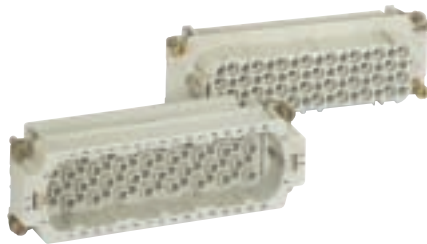
HD 64 Plugs & Receptacles fit into EPIC® HBE 24 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

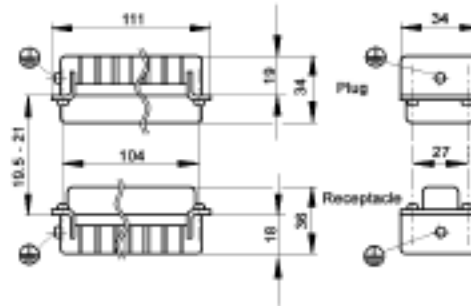
HD 64 Plugs & Receptacles



CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS

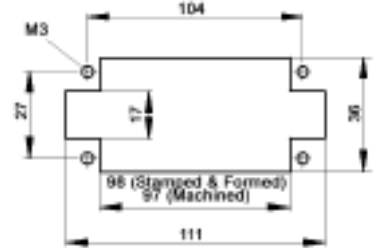


Contacts Sold Separately



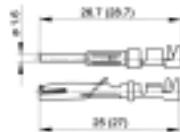
Plug	Receptacle
11.2700	11.2710

Panel Cut-Out
(Insert Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

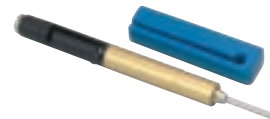
CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 64 Plugs & Receptacles fit into EPIC® HBE 24 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base for HD 64 Inserts

HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1219	10.1219 NP	70.1490	70.1490 NP
	29	1"	10.1119	10.1119 NP	70.1492	70.1492 NP
Side Entry	21	3/4"	10.1139	10.1139 NP	70.1590	70.1590 NP
	29	1"	10.1239	10.1239 NP	70.1592	70.1592 NP

HIGH PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1444	70.1444 NP	70.1494	70.1494 NP
	29	1"	70.1446	70.1446 NP	70.1496	70.1496 NP
Side Entry	21	3/4"	70.1544	70.1544 NP	70.1594	70.1594 NP
	29	1"	70.1546	70.1546 NP	70.1596	70.1596 NP

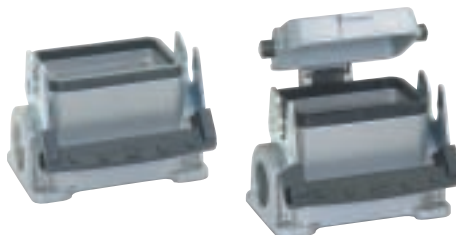


PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1029	70.1327
With Dust Cover	10.1039	70.1337

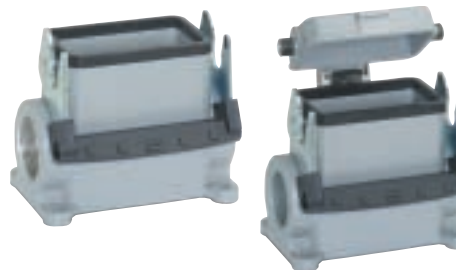
SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1059	10.1059 NP	70.1630	70.1630 NP
1 Entry	21	3/4"	10.1049	10.1049 NP	70.1620	70.1620 NP
2 with cover	21	3/4"	10.1099	10.1099 NP	70.1670	70.1670 NP
1 with cover	21	3/4"	10.1079	10.1079 NP	70.1660	70.1660 NP

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1612	70.1612 NP	70.1632	70.1632 NP
	29	1"	70.1614	70.1614 NP	70.1634	70.1634 NP
1 Entry	21	3/4"	70.1602	70.1602 NP	70.1622	70.1622 NP
	29	1"	70.1604	70.1604 NP	70.1624	70.1624 NP
2 Entries with dust cover	21	3/4"	70.1652	70.1652 NP	70.1672	70.1672 NP
	29	1"	70.1654	70.1654 NP	70.1674	70.1674 NP
1 Entry with dust cover	21	3/4"	70.1642	70.1642 NP	70.1662	70.1662 NP
	29	1"	70.1644	70.1644 NP	70.1664	70.1664 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1279	10.1279 NP	70.1430	70.1430 NP
	29	1"	10.1179	10.1179 NP	70.1432	70.1432 NP
High Profile	21	3/4"	70.1424	70.1424 NP	70.1434	70.1434 NP
	29	1"	70.1426	70.1426 NP	70.1436	70.1436 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base for HD 64 Inserts

HOODS

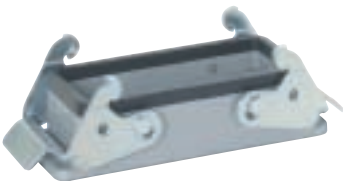


STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1210	10.1210 NP	70.1510	70.1510 NP
	29	1"	10.1110	10.1110 NP	70.1512	70.1512 NP
Side Entry	21	3/4"	10.1130	10.1130 NP	70.1530	70.1530 NP
	29	1"	10.1230	10.1230 NP	70.1532	70.1532 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1504	70.1504 NP	70.1514	70.1514 NP
	29	1"	70.1506	70.1506 NP	70.1516	70.1516 NP
Side Entry	21	3/4"	70.1524	70.1524 NP	70.1534	70.1534 NP
	29	1"	70.1526	70.1526 NP	70.1536	70.1536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1020	70.1325

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1050	10.1050 NP	70.1380	70.1380 NP
1 Entry	21	3/4"	10.1040	10.1040 NP	70.1370	70.1370 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1362	70.1362 NP	70.1382	70.1382 NP
	29	1"	70.1364	70.1364 NP	70.1384	70.1384 NP
1 Entry	21	3/4"	70.1352	70.1352 NP	70.1372	70.1372 NP
	29	1"	70.1354	70.1354 NP	70.1374	70.1374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1270	10.1270 NP	70.1410	70.1410 NP
	29	1"	10.1170	10.1170 NP	70.1412	70.1412 NP
High Profile	21	3/4"	70.1404	70.1404 NP	70.1414	70.1414 NP
	29	1"	70.1406	70.1406 NP	70.1416	70.1416 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood for HD 64 Inserts

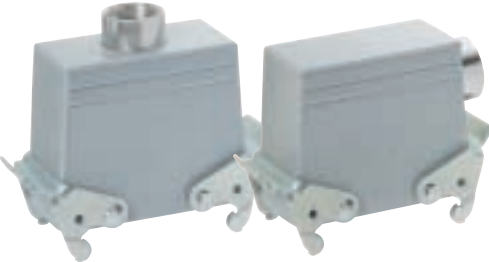
HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1220	10.1220 NP	70.1560	70.1560 NP
	29	1"	10.1120	10.1120 NP	70.1562	70.1562 NP
Side Entry	21	3/4"	10.1140	10.1140 NP	70.1580	70.1580 NP
	29	1"	10.1240	10.1240 NP	70.1582	70.1582 NP

HIGH PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1554	70.1554 NP	70.1564	70.1564 NP
	29	1"	70.1556	70.1556 NP	70.1566	70.1566 NP
Side Entry	21	3/4"	70.1574	70.1574 NP	70.1584	70.1584 NP
	29	1"	70.1576	70.1576 NP	70.1586	70.1586 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.1030	70.1335
Without Dust Cover	10.1031	-

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1090	10.1090 NP	70.1480	70.1480 NP
1 Entry	21	3/4"	10.1070	10.1070 NP	70.1470	70.1470 NP
2 Entries with dust cover	21	3/4"	70.1462	70.1462 NP	70.1482	70.1482 NP
	29	1"	70.1464	70.1464 NP	70.1484	70.1484 NP
1 Entry with dust cover	21	3/4"	70.1452	70.1452 NP	70.1472	70.1472 NP
	29	1"	70.1454	70.1454 NP	70.1474	70.1474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature:

-40°C to 125°C



	Part #
Dust cover with single lever for HBE 24 Hoods	10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1187
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181

EPIC® CONNECTORS

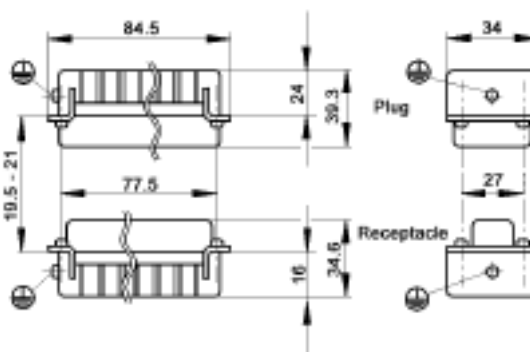
HD 80 Plugs & Receptacles



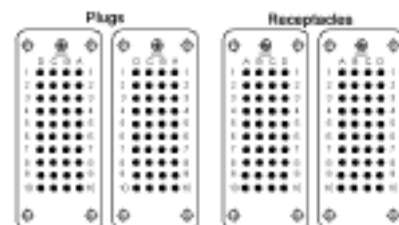
CRIMP TERMINATED: MACHINE CONTACT INSERTS



Contacts Sold Separately



View from cable side



Plug	Receptacle
11.2652(2X)	11.2662 (2X)

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



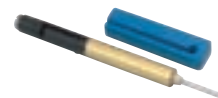
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HD 80 Plugs & Receptacles fit into EPIC® HBE 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 313). Please note that metric parts are available.

EPIC® CONNECTORS

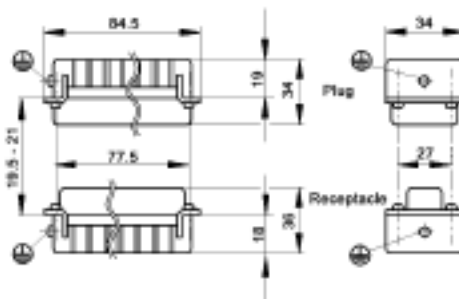
HD 80 Plugs & Receptacles



CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS

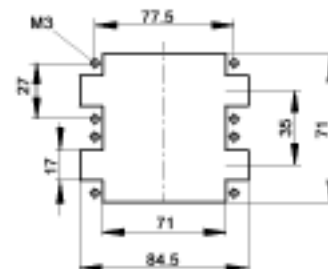


Contacts Sold Separately



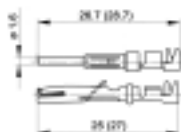
Plug	Receptacle
11.2650 (2X)	11.2660 (2X)

Panel Cut-Out (Inserts Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

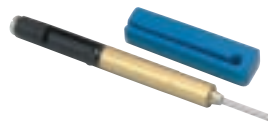
CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



MATING COMPONENTS

HD 80 Plugs & Receptacles fit into EPIC® HBE 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 313). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 32 Housings for HD 80 Inserts

DOUBLE LEVERS ON BASE



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1330	10.1330 NP
	29	1"	10.1340	10.1340 NP
Side Entry	21	3/4"	10.1350	10.1350 NP
	29	1"	10.1360	10.1360 NP

Part #
10.1320



# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1380	10.1380 NP
1 Entry	29	1"	10.1370	10.1370 NP

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
21	3/4"	10.1390	10.1390
29	1"	10.1395	10.1395 NP

Dust cover with double lever bolts and attachment string for panel mount or surface mount base or cable coupler hood: 10.1420

DOUBLE LEVERS ON HOOD



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	70.2050	70.2050 NP
Side Entry	29	1"	10.1366	10.1366 NP

Part #
10.1323

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
29	1"	10.1373	10.1373 NP

EPIC® CONNECTORS

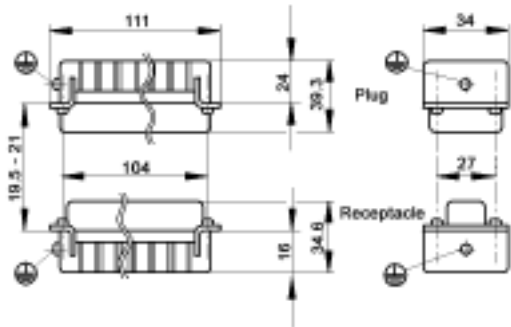
HD 128 Plugs & Receptacles



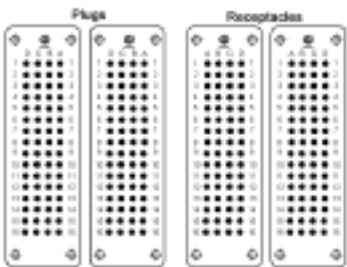
CRIMP TERMINATED: MACHINE CONTACT INSERTS



Contacts Sold Separately



View from cable side

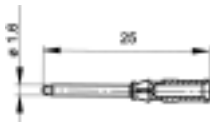


Plug	Receptacle
11.2720(2X)	11.2730 (2X)

All dimensions are in mm.

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



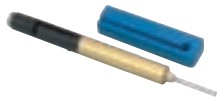
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HD 128 Plugs & Receptacles fit into EPIC® HBE 48 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 317). Please note that metric parts are available.

EPIC® CONNECTORS

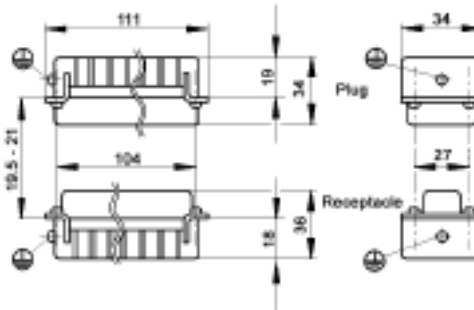
HD 128 Plugs & Receptacles



CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS

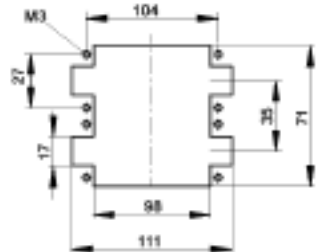


Contacts Sold Separately



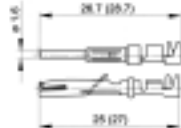
Plug	Receptacle
11.2700 (2X)	11.2710 (2X)

Panel Cut-Out
(Inserts Only)



All dimensions are in mm.

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM



mm ²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm ²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-
		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm ²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

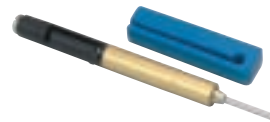
CRIMP TOOLS



Crimp Tool
11.1470



Locator
11.1473



Removal Tool: 11.1610



Crimp Tool for Reel
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



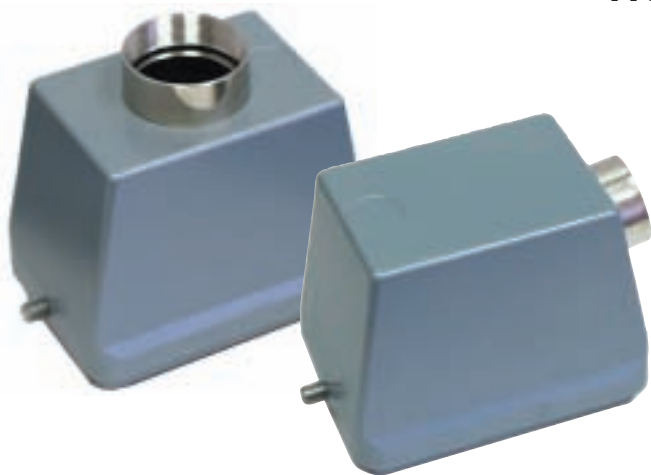
MATING COMPONENTS

HD 128 Plugs & Receptacles fit into EPIC® HBE 48 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 317). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 48 Housings for HD 128 Inserts

HOODS



Position of Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	10.1550	10.1550 NP
	36	1 1/4"	10.1560	10.1560 NP
	42	-	10.1570	-
Side Entry	29	1"	10.1580	10.1580 NP
	36	1 1/4"	10.1590	10.1590 NP
	42	-	10.1600	-

PANEL MOUNT BASES



Without Dust Cover	With Dust Cover with hold down screws and no dust cover bolts	With Dust Cover with hold down screws and dust cover bolts
10.1610	10.1520	10.1525

SURFACE MOUNT BASES



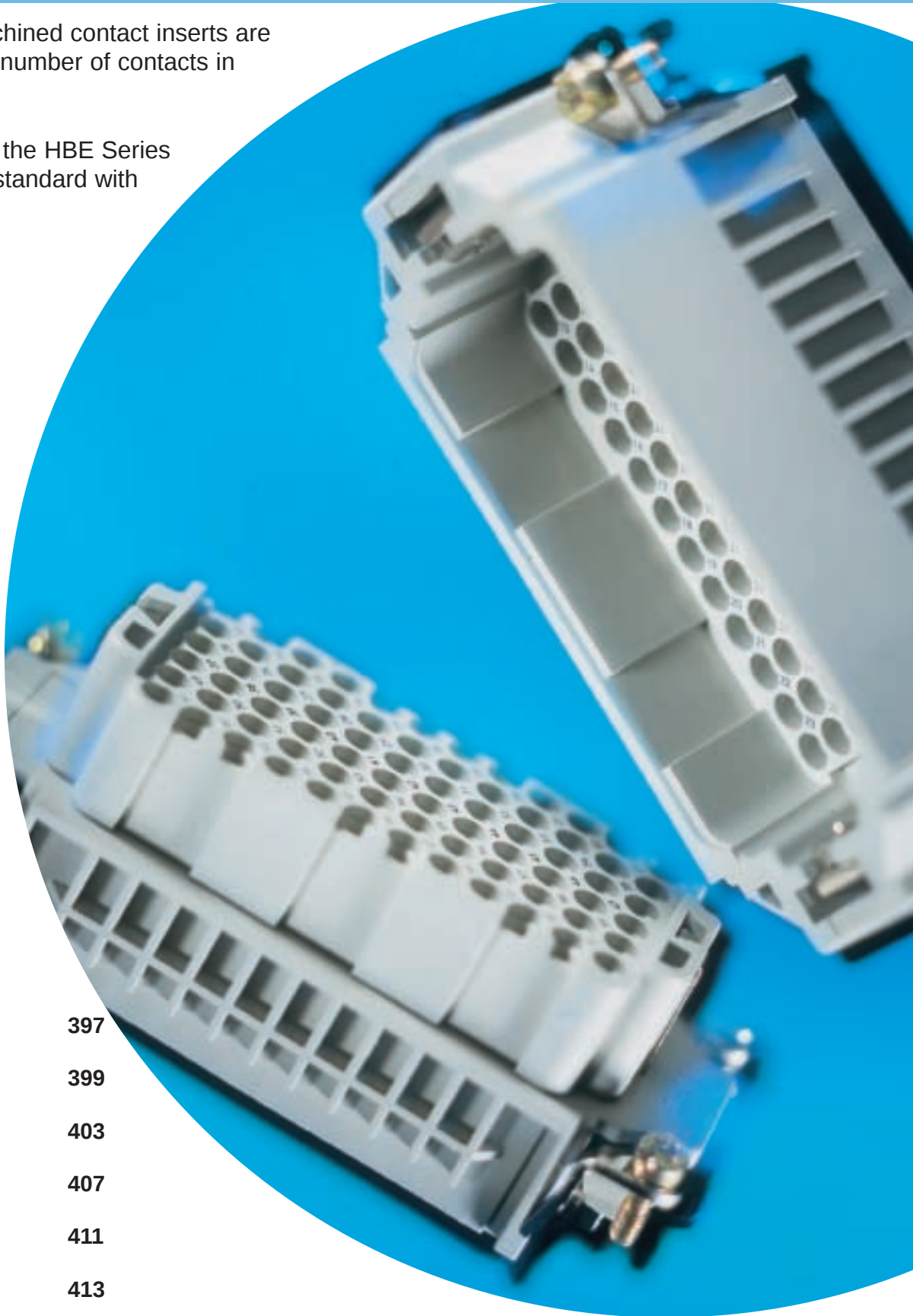
# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1660	10.1660 NP
	36	1 1/4"	10.1661	10.1661 NP
1 Entry	29	1"	10.1650	10.1650 NP
	36	1 1/4"	10.1651	10.1651 NP
2 Entries with dust cover	29	1"	10.1680	10.1680 NP
	36	1 1/4"	10.1681	10.1681 NP
1 Entry with dust cover	29	1"	10.1670	10.1670 NP
	36	1 1/4"	10.1671	10.1671 NP

EPIC® CONNECTORS

HDD Series

The HDD series machined contact inserts are designed for a large number of contacts in narrow spaces.

These inserts fit into the HBE Series housings which are standard with fixed levers.



HDD 24 Series	397
HDD 42 Series	399
HDD 72 Series	403
HDD 108 Series	407
HDD 144 Series	411
HDD 216 Series	413

EPIC® CONNECTORS

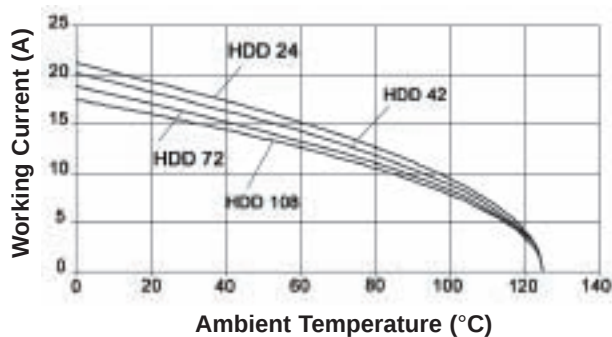
HDD Series

TECHNICAL DATA

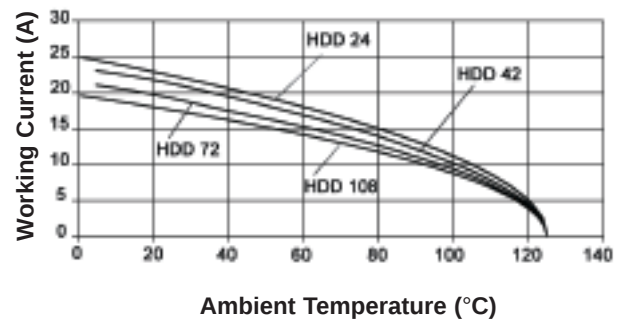
Inserts:**Number of Contacts:** 24, 42, 72, 108, 144, 216 (+PE)**Rated Voltage:**
VDE: 250V EPIC HDD 24 - 216
UL: 600V EPIC HDD 24 - 216
CSA: 600V EPIC HDD 24 - 216**Rated Current:**VDE: 10A EPIC HDD 24 - 216
UL: 8.5A EPIC HDD 24 - 216
CSA: 10A EPIC HDD 24 - 216**Pollution Level:** 2**Test Voltage:** 2.5 kV**Termination Type:** Crimp termination:
0.14 - 2.5mm² AWG: 22 - 14**Temperature Range:** -40°C to 125°C**Contacts:** Copper alloy, silver plated/
gold plated**Contact Resistance:** <2mOhm**Mating Cycles:** 100 (higher mating cycles
depends on the application)

HDD INSERTS TECHNICAL DATA: DERATING CURVES

HDD CRIMP: 1.5 mm² (16 AWG)



HDD CRIMP: 2.5 mm² (14 AWG)



MATING COMPONENTS

HDD Plugs & Receptacles fit into EPIC® HBE Housings. A quick reference for the mating components is shown. Diagrams are located in

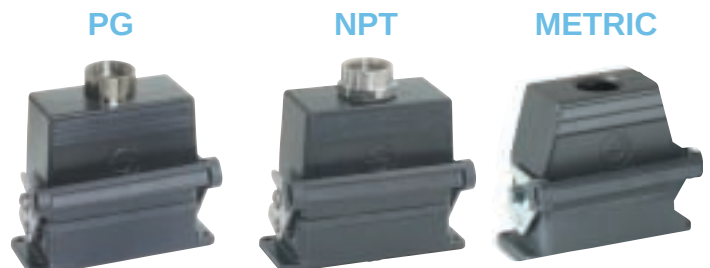
the HBE Section of the catalog. Please note that metric parts are available.

Specifications: DIN 43652
Temperature Range: -40°C to +125°C**Protection class:** IP65
Material: Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)



EP Black Coating (NEMA 4X)



EPIC® CONNECTORS

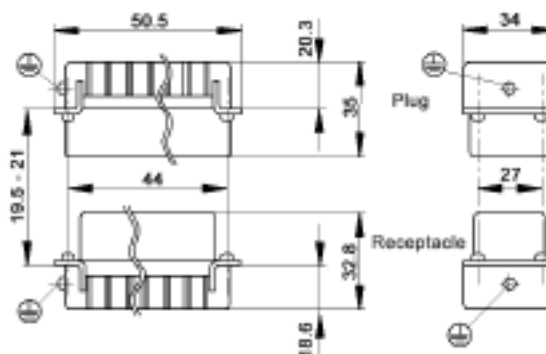
HDD 24 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



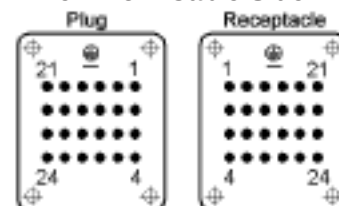
Contacts Sold Separately



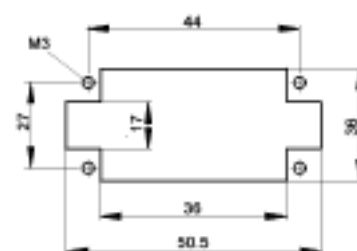
All dimensions are in mm.

Plug	Receptacle
11.2850	11.2860

View from Cable Side



Panel Cut-Out
(Insert Only)



MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section
characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



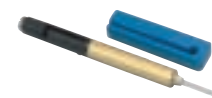
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HDD 24 Plugs & Receptacles fit into EPIC® HBE 6 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 278). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 6 Housings: Single Lever on Base for HDD 24 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	13.5	1/2"	10.0110	10.0110 NP	70.0216	70.0216 NP
	16	1/2"	10.0210	10.0210 NP	70.0210	70.0210 NP
Side Entry	13.5	1/2"	10.0120	10.0120 NP	70.0236	70.0236 NP
	16	1/2"	10.0220	10.0220 NP	70.0230	70.0230 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0202	70.0202 NP	70.0212	70.0212 NP
	29	1"	70.0204	70.0204 NP	70.0214	70.0214 NP
Side Entry	21	3/4"	70.0222	70.0222 NP	70.0232	70.0232 NP
	29	1"	70.0224	70.0224 NP	70.0234	70.0234 NP



Dust Cover- 10.0165

PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0030	70.0025
With Dust Cover	10.0040	70.0045

Dust Cover- 10.0150



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0060	10.0060 NP	70.0080	70.0080 NP
1 Entry	16	1/2"	10.0050	10.0050 NP	70.0070	70.0070 NP
2 Entries with dust cover	16	1/2"	10.0090	10.0090 NP	70.0180	70.0180 NP
1 Entry with dust cover	16	1/2"	10.0070	10.0070 NP	70.0170	70.0170 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0062	70.0062 NP	70.0082	70.0082 NP
	29	1"	70.0064	70.0064 NP	70.0084	70.0084 NP
1 Entry	21	3/4"	70.0052	70.0052 NP	70.0072	70.0072 NP
	29	1"	70.0054	70.0054 NP	70.0074	70.0074 NP
2 Entries with dust cover	21	3/4"	70.0162	70.0162 NP	70.0182	70.0182 NP
	29	1"	70.0164	70.0164 NP	70.0184	70.0184 NP
1 Entry with dust cover	21	3/4"	70.0152	70.0152 NP	70.0172	70.0172 NP
	29	1"	70.0154	70.0154 NP	70.0174	70.0174 NP



Dust Cover- 10.0150

CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	13.5	1/2"	10.0140	10.0140 NP	-	-
	16	1/2"	10.0240	10.0240 NP	70.0110	70.0110 NP
High Profile	21	3/4"	70.0102	70.0102 NP	70.0112	70.0112 NP
	29	1"	70.0104	70.0104 NP	70.0114	70.0114 NP

Dust Cover- 10.0150

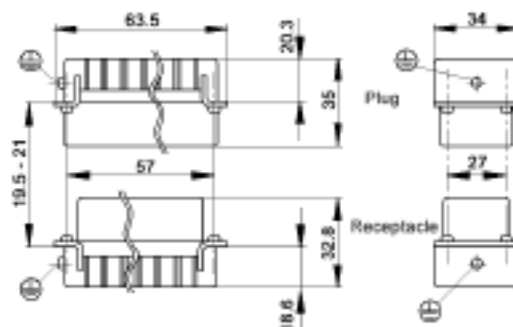


EPIC® CONNECTORS

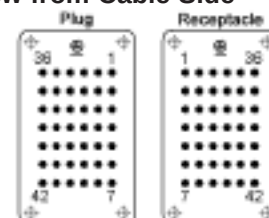
HDD 42 Plugs & Receptacles



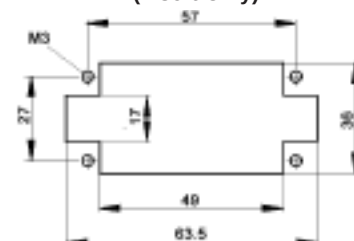
CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from Cable Side



Panel Cut-Out
(Insert Only)



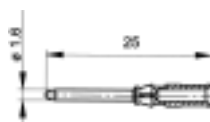
All dimensions are in mm.

Contacts Sold Separately

Plug	Receptacle
11.2851	11.2861

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



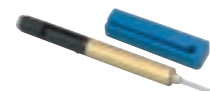
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HDD 42 Plugs & Receptacles fit into EPIC® HBE 10 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 283). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base for HDD 42 Inserts

HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0409	10.0409 NP	70.0490	70.0490 NP
	21	3/4"	10.0407	10.0407 NP	70.0496	70.0496 NP
Side Entry	16	1/2"	10.0429	10.0429 NP	70.0590	70.0590 NP
	21	3/4"	10.0428	10.0428 NP	70.0596	70.0596 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0442	70.0442 NP	70.0492	70.0492 NP
	29	1"	70.0444	70.0444 NP	70.0494	70.0494 NP
Side Entry	21	3/4"	70.0542	70.0542 NP	70.0592	70.0592 NP
	29	1"	70.0544	70.0544 NP	70.0594	70.0594 NP

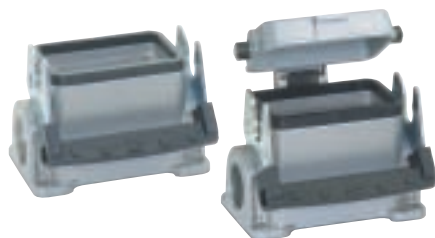
PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0329	70.0327
With Dust Cover	10.0339	70.0337

SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0359	10.0359 NP	70.0630	70.0630 NP
1 Entry	16	1/2"	10.0349	10.0349 NP	70.0620	70.0620 NP
	21	3/4"	10.0347	10.0347 NP	-	-
2 Entries with dust cover	16	1/2"	10.0389	10.0389 NP	70.0670	70.0670 NP
	-	-	-	-	-	-
1 Entry with dust cover	16	1/2"	10.0369	10.0369 NP	70.0660	70.0660 NP
	-	-	-	-	-	-

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0612	70.0612 NP	70.0632	70.0632 NP
	29	1"	70.0614	70.0614 NP	70.0634	70.0634 NP
1 Entry	21	3/4"	70.0602	70.0602 NP	70.0622	70.0622 NP
	29	1"	70.0604	70.0604 NP	70.0624	70.0624 NP
2 Entries with dust cover	21	3/4"	70.0652	70.0652 NP	70.0672	70.0672 NP
	29	1"	70.0654	70.0654 NP	70.0674	70.0674 NP
1 Entry with dust cover	21	3/4"	70.0642	70.0642 NP	70.0662	70.0662 NP
	29	1"	70.0644	70.0644 NP	70.0664	70.0664 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0469	10.0469 NP	70.0430	70.0430 NP
	21	3/4"	70.0422	70.0422 NP	70.0432	70.0432 NP
High Profile	21	3/4"	70.0424	70.0424 NP	70.0434	70.0434 NP
	29	1"	70.0426	70.0426 NP	70.0436	70.0436 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Base for HDD 42 Inserts

HOODS



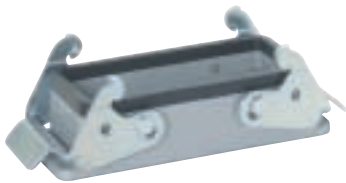
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0400	10.0400 NP	70.0510	70.0510 NP
	21	3/4"	10.0401	10.0401 NP	70.0512	70.0512 NP
Side Entry	16	1/2"	10.0420	10.0420 NP	70.0530	70.0530 NP
	21	3/4"	10.0421	10.0421 NP	70.0532	70.0532 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0504	70.0504 NP	70.0514	70.0514 NP
	29	1"	70.0506	70.0506 NP	70.0516	70.0516 NP
Side Entry	21	3/4"	70.0524	70.0524 NP	70.0534	70.0534 NP
	29	1"	70.0526	70.0526 NP	70.0536	70.0536 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0320	70.0325

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0350	10.0350 NP	70.0380	70.0380 NP
1 Entry	16	1/2"	10.0340	10.0340 NP	70.0370	70.0370 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0362	70.0362 NP	70.0382	70.0382 NP
	29	1"	70.0364	70.0364 NP	70.0384	70.0384 NP
1 Entry	21	3/4"	70.0352	70.0352 NP	70.0372	70.0372 NP
	29	1"	70.0354	70.0354 NP	70.0374	70.0374 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0460	10.0460 NP	70.0410	70.0410 NP
	21	3/4"	70.0402	70.0402 NP	70.0412	70.0412 NP
High Profile	16	1/2"	70.0404	70.0404 NP	70.0414	70.0414 NP
	21	3/4"	70.0406	70.0406 NP	70.0416	70.0416 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Hood for HDD 42 Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0410	10.0410 NP	70.0560	70.0560 NP
Side Entry	16	1/2"	10.0450	10.0450 NP	70.0580	70.0580 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0552	70.0552 NP	70.0562	70.0562 NP
	29	1"	70.0554	70.0554 NP	70.0564	70.0564 NP
Side Entry	21	3/4"	70.0572	70.0572 NP	70.0582	70.0582 NP
	29	1"	70.0574	70.0574 NP	70.0584	70.0584 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.0330	70.0335

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0380	10.0380 NP	70.0480	70.0480 NP
1 Entry	16	1/2"	10.0360	10.0360 NP	70.0470	70.0470 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0462	70.0462 NP	70.0482	70.0482 NP
	29	1"	70.0464	70.0464 NP	70.0484	70.0484 NP
1 Entry	21	3/4"	70.0452	70.0452 NP	70.0472	70.0472 NP
	29	1"	70.0454	70.0454 NP	70.0474	70.0474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



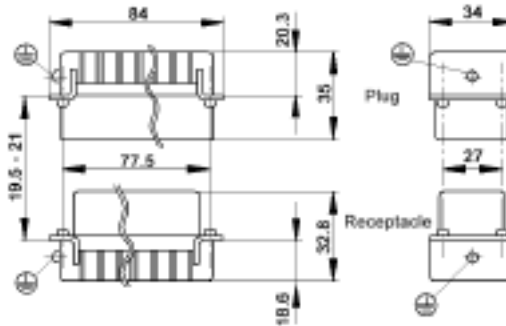
	Part #
Dust cover with single lever for HBE 10 Hoods	10.0486
Dust cover with single lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0487
Dust cover with double levers and gasket for HBE 10 Hoods	10.0485
Dust cover with double lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0470
Dust cover with double lever bolts and gasket for HBE 10 Hoods	10.0471

EPIC® CONNECTORS

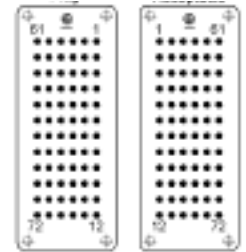
HDD 72 Plugs & Receptacles



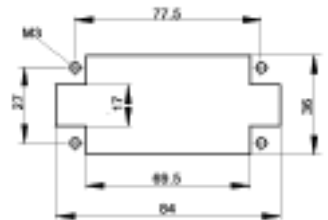
CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from Cable Side



Panel Cut-Out
(Insert Only)



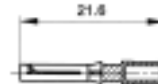
All dimensions are in mm.

Contacts Sold Separately

Plug	Receptacle
11.2852	11.2862

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section
characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



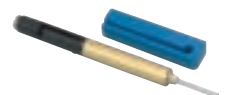
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HDD 72 Plugs & Receptacles fit into EPIC® HBE 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for HDD 72 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP

PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837

SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP

CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base for HDD 72 Inserts

HOODS



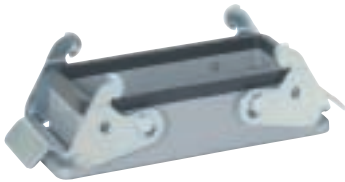
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood for HDD 72 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0731	-
With Dust Cover	10.0730	70.0835



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP



DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature:

-40°C to 125°C

	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface MountBase/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface MountBase/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

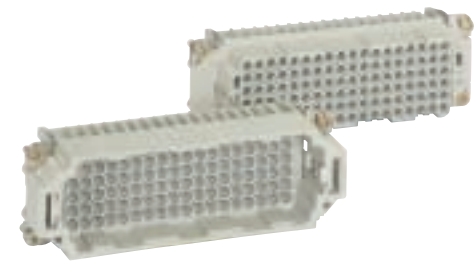


EPIC® CONNECTORS

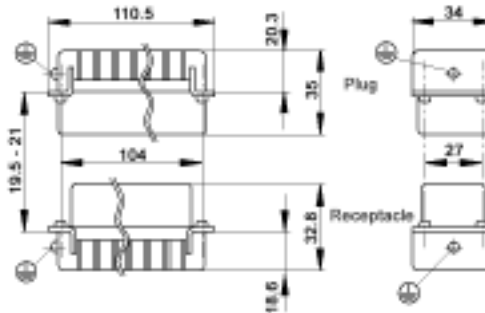
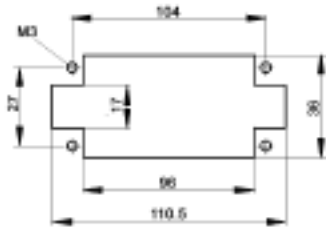
HDD 108 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



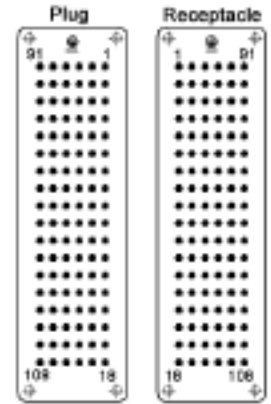
Panel
Cut-Out
(Insert Only)



All dimensions are in mm.

Plug	Receptacle
11.2853	11.2863

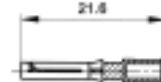
View from Cable Side



Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section
characteristic



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



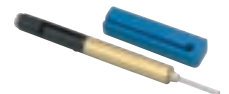
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HDD 108 Plugs & Receptacles fit into EPIC® HBE 24 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base for HDD 108 Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1219	10.1219 NP	70.1490	70.1490 NP
	29	1"	10.1119	10.1119 NP	70.1492	70.1492 NP
Side Entry	21	3/4"	10.1139	10.1139 NP	70.1590	70.1590 NP
	29	1"	10.1239	10.1239 NP	70.1592	70.1592 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1444	70.1444 NP	70.1494	70.1494 NP
	29	1"	70.1446	70.1446 NP	70.1496	70.1496 NP
Side Entry	21	3/4"	70.1544	70.1544 NP	70.1594	70.1594 NP
	29	1"	70.1546	70.1546 NP	70.1596	70.1596 NP

PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1029	70.1327
With Dust Cover	10.1039	70.1337

SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1059	10.1059 NP	70.1630	70.1630 NP
1 Entry	21	3/4"	10.1049	10.1049 NP	70.1620	70.1620 NP
2 with cover	21	3/4"	10.1099	10.1099 NP	70.1670	70.1670 NP
1 with cover	21	3/4"	10.1079	10.1079 NP	70.1660	70.1660 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1612	70.1612 NP	70.1632	70.1632 NP
	29	1"	70.1614	70.1614 NP	70.1634	70.1634 NP
1 Entry	21	3/4"	70.1602	70.1602 NP	70.1622	70.1622 NP
	29	1"	70.1604	70.1604 NP	70.1624	70.1624 NP
2 Entries with dust cover	21	3/4"	70.1652	70.1652 NP	70.1672	70.1672 NP
	29	1"	70.1654	70.1654 NP	70.1674	70.1674 NP
1 Entry with dust cover	21	3/4"	70.1642	70.1642 NP	70.1662	70.1662 NP
	29	1"	70.1644	70.1644 NP	70.1664	70.1664 NP

CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1279	10.1279 NP	70.1430	70.1430 NP
	29	1"	10.1179	10.1179 NP	70.1432	70.1432 NP
High Profile	21	3/4"	70.1424	70.1424 NP	70.1434	70.1434 NP
	29	1"	70.1426	70.1426 NP	70.1436	70.1436 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base for HDD 108 Inserts

HOODS

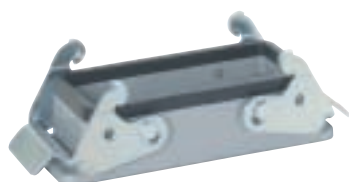


STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1210	10.1210 NP	70.1510	70.1510 NP
	29	1"	10.1110	10.1110 NP	70.1512	70.1512 NP
Side Entry	21	3/4"	10.1130	10.1130 NP	70.1530	70.1530 NP
	29	1"	10.1230	10.1230 NP	70.1532	70.1532 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1504	70.1504 NP	70.1514	70.1514 NP
	29	1"	70.1506	70.1506 NP	70.1516	70.1516 NP
Side Entry	21	3/4"	70.1524	70.1524 NP	70.1534	70.1534 NP
	29	1"	70.1526	70.1526 NP	70.1536	70.1536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1020	70.1325

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1050	10.1050 NP	70.1380	70.1380 NP
1 Entry	21	3/4"	10.1040	10.1040 NP	70.1370	70.1370 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1362	70.1362 NP	70.1382	70.1382 NP
	29	1"	70.1364	70.1364 NP	70.1384	70.1384 NP
1 Entry	21	3/4"	70.1352	70.1352 NP	70.1372	70.1372 NP
	29	1"	70.1354	70.1354 NP	70.1374	70.1374 NP



CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1270	10.1270 NP	70.1410	70.1410 NP
	29	1"	10.1170	10.1170 NP	70.1412	70.1412 NP
High Profile	21	3/4"	70.1404	70.1404 NP	70.1414	70.1414 NP
	29	1"	70.1406	70.1406 NP	70.1416	70.1416 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood for HDD 108 Inserts



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1220	10.1220 NP	70.1560	70.1560 NP
	29	1"	10.1120	10.1120 NP	70.1562	70.1562 NP
Side Entry	21	3/4"	10.1140	10.1140 NP	70.1580	70.1580 NP
	29	1"	10.1240	10.1240 NP	70.1582	70.1582 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1554	70.1554 NP	70.1564	70.1564 NP
	29	1"	70.1556	70.1556 NP	70.1566	70.1566 NP
Side Entry	21	3/4"	70.1574	70.1574 NP	70.1584	70.1584 NP
	29	1"	70.1576	70.1576 NP	70.1586	70.1586 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.1030	70.1335
Without Dust Cover	10.1031	-

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1090	10.1090 NP	70.1480	70.1480 NP
1 Entry	21	3/4"	10.1070	10.1070 NP	70.1470	70.1470 NP
2 Entries with dust cover	21	3/4"	70.1462	70.1462 NP	70.1482	70.1482 NP
	29	1"	70.1464	70.1464 NP	70.1484	70.1484 NP
1 Entry with dust cover	21	3/4"	70.1452	70.1452 NP	70.1472	70.1472 NP
	29	1"	70.1454	70.1454 NP	70.1474	70.1474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 24 Hoods	10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1187
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181



EPIC® CONNECTORS

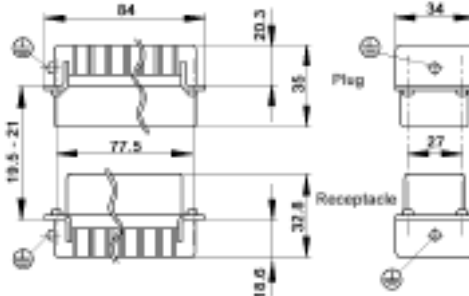
HDD 144 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



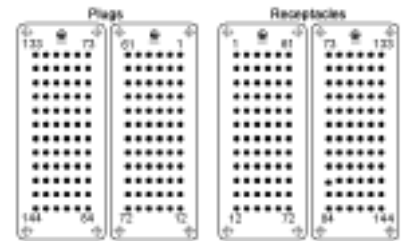
Contacts Sold Separately



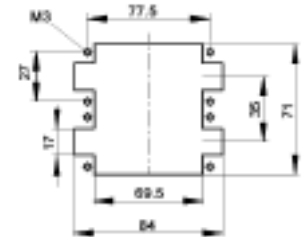
All dimensions are in mm.

	Plug	Receptacle
#1-72	11.2852	11.2862
#73-144	11.2854	11.2864

View from Cable Side

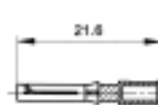


Panel Cut-Out
(Insert Only)



MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section
characteristic



Bags of 100

mm²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



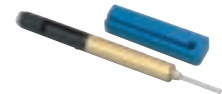
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

MATING COMPONENTS

HDD 144 Plugs & Receptacles fit into EPIC® HBE 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 313). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 32 Housings for HDD 144 Inserts

DOUBLE LEVERS ON BASE



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1330	10.1330 NP
	29	1"	10.1340	10.1340 NP
Side Entry	21	3/4"	10.1350	10.1350 NP
	29	1"	10.1360	10.1360 NP

Part #
10.1320



# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1380	10.1380 NP
1 Entry	29	1"	10.1370	10.1370 NP

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
21	3/4"	10.1390	10.1390
29	1"	10.1395	10.1395 NP

Dust cover with double lever bolts and attachment string for panel mount or surface mount base or cable coupler hood: 10.1420

DOUBLE LEVERS ON HOOD



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	70.2050	70.2050 NP
Side Entry	29	1"	10.1366	10.1366 NP

Part #
10.1323

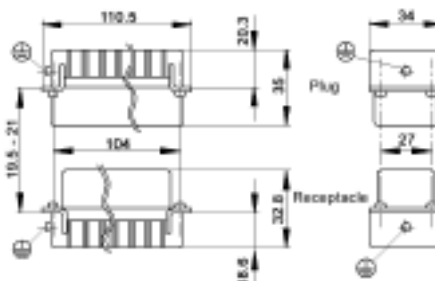
Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
29	1"	10.1373	10.1373 NP

EPIC® CONNECTORS

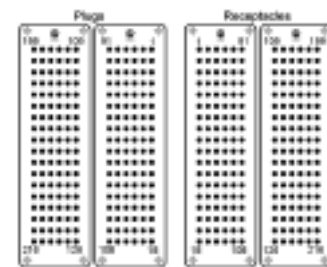
HDD 216 Plugs & Receptacles



CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from Cable Side

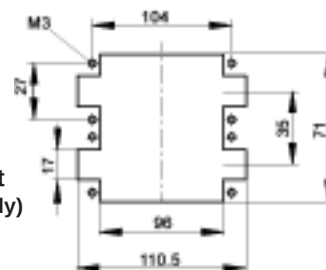


All dimensions are in mm.

Contacts Sold Separately

	Plug	Receptacle
#1-108	11.2853	11.2863
#109-216	11.2855	11.2865

Panel Cut-Out (Insert Only)



MACHINE CONTACTS: DIAMETER 1.6 MM

Cross section characteristic



Bags of 100

mm²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



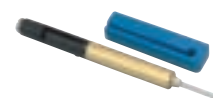
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

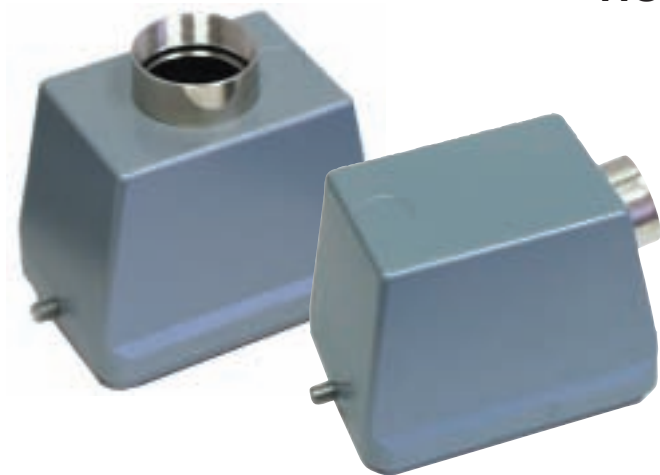
MATING COMPONENTS

HDD 216 Plugs & Receptacles fit into EPIC® HBE 48 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 317). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 48 Housings for HDD 216 Inserts

HOODS



Position of Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	10.1550	10.1550 NP
	36	1 1/4"	10.1560	10.1560 NP
	42	-	10.1570	-
Side Entry	29	1"	10.1580	10.1580 NP
	36	1 1/4"	10.1590	10.1590 NP
	42	-	10.1600	-

PANEL MOUNT BASES



Without Dust Cover	With Dust Cover with hold down screws and no dust cover bolts	With Dust Cover with hold down screws and dust cover bolts
10.1610	10.1520	10.1525

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1660	10.1660 NP
	36	1 1/4"	10.1661	10.1661 NP
1 Entry	29	1"	10.1650	10.1650 NP
	36	1 1/4"	10.1651	10.1651 NP
2 Entries with dust cover	29	1"	10.1680	10.1680 NP
	36	1 1/4"	10.1681	10.1681 NP
1 Entry with dust cover	29	1"	10.1670	10.1670 NP
	36	1 1/4"	10.1671	10.1671 NP

EPIC® CONNECTORS

Modular Series



EPIC® CONNECTORS

Modular Series

The Modular series inserts provide flexibility. A combination of 2 up to 14 Modules can be combined into one frame. The available modules include coax, high voltage, cage clamp, crimp, and screw terminated.

These inserts fit into the HBE Series housings which are now standard with fixed levers.



2 Contact Module: 2 Working Contacts	421
2 Contact Module with ground	421
3 Contact Coax Module	422
3 Contact Module	423
3 Contact High Voltage Module	424
4 Contact HE Module	425
4+PE Contact High Voltage Module	426
5 Contact High Voltage Module	427
10 Contact Module: Stamped & Formed	428
10 Contact Module: Machine Crimp	429
20 Contact Module	430
Dummy Module	431
4 Contact Cage Clamp Module	431
Profibus DP Module	431
Frames for 2 modules	432
Frames for 3 modules	434
Frames for 5 modules	438
Frames for 7 modules	442
Frames for 10 modules	446
Frames for 14 modules	448

TECHNICAL DATA

Inserts:

Number of Contacts: 2 - 280 (+PE)
Rated Voltage: VDE: 30 - 1000V
 UL: 100 - 600V
 CSA: 100 - 600V

Rated Current: VDE: 1 - 82A
 UL: 4 - 40A
 CSA: 4 - 35A

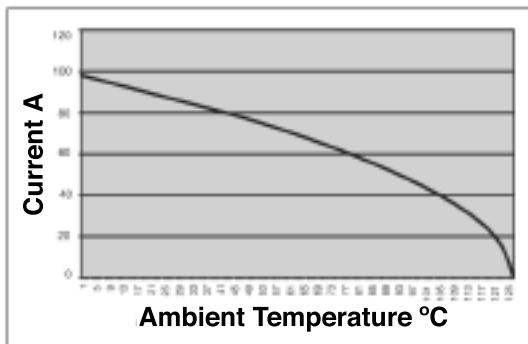
Pollution Level: 3

Temperature Range: -40°C to 125°C

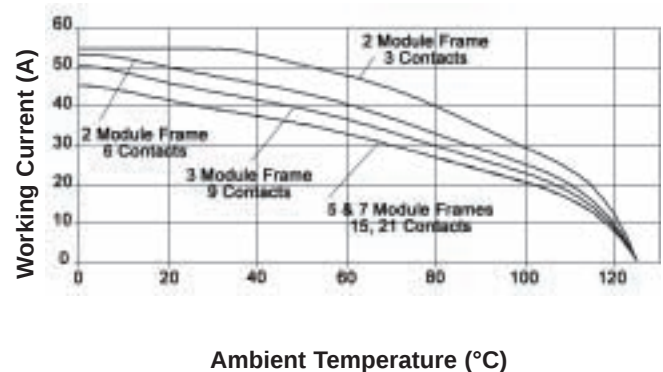
Termination Type: Crimp termination: .06 - 10 mm²,
 AWG: 30 - 6 AWG
 Cage Clamp: 0.5 - 2.5 mm², AWG: 20 - 14
 Screw: 4 - 16 mm², AWG: 12 - 6
Contacts: Copper alloy, silver plated/ gold plated
Contact Resistance: <1mOhm - <5MOhm
Dimension transient: 1.5 - 8kV, depending on module
Mating Cycles: 100 (higher mating cycles depends on the application)

TECHNICAL DATA: DERATING CURVES

**2 CONTACT MODULE:
4 - 16 mm² (12 - 6 AWG)**



**3 MODULE MACHINE CONTACTS:
6 mm² (10 AWG)**



TECHNICAL DATA: HBE HOUSINGS

Specifications: DIN 43652
Temperature Range: -40°C to +125°C

Protection class: IP65
Material: Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)

PG NPT METRIC



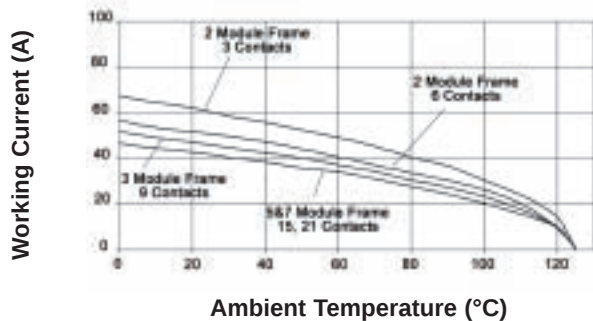
Black Coating (Environmentally Protected)

PG NPT METRIC

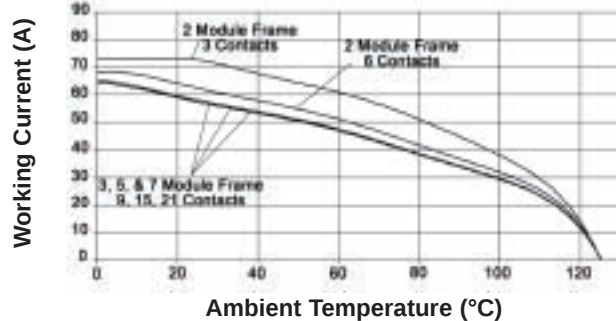


TECHNICAL DATA: DERATING CURVES

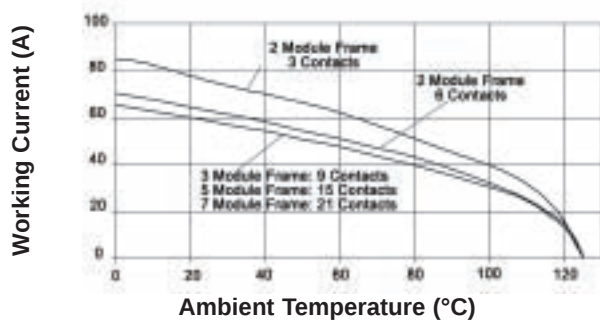
**3 MODULE HIGH VOLTAGE
MACHINE CONTACTS: 6 mm² (10 AWG)**



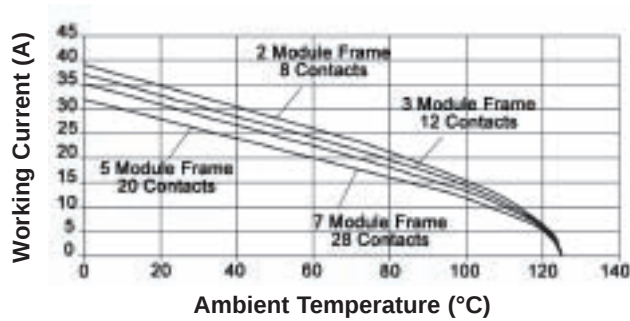
**3 MODULE MACHINE CONTACTS:
10 mm² (8 AWG)**



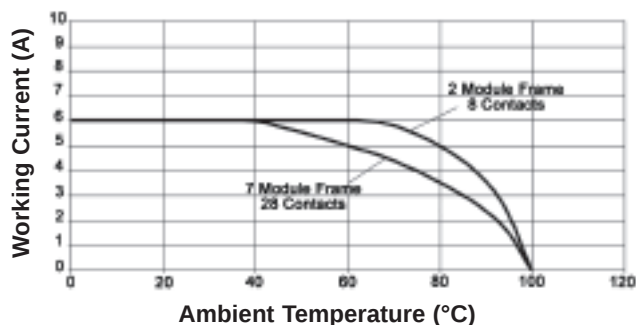
**3 MODULE HIGH VOLTAGE
MACHINE CONTACTS: 10 mm² (8 AWG)**



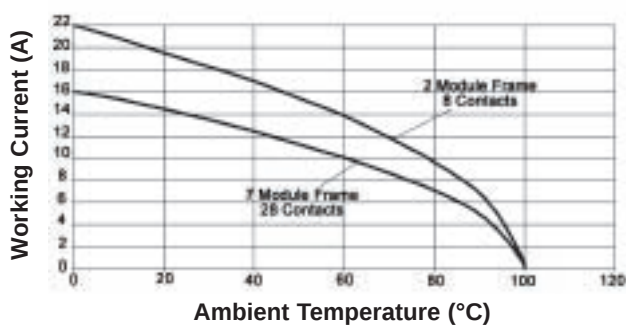
**4 MODULE MACHINE CONTACTS:
4.0 mm² (12 AWG)**



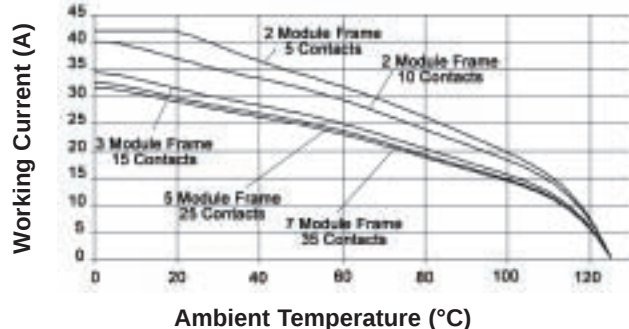
**4 MODULE CAGE CLAMP:
0.5 mm² (20 AWG)**



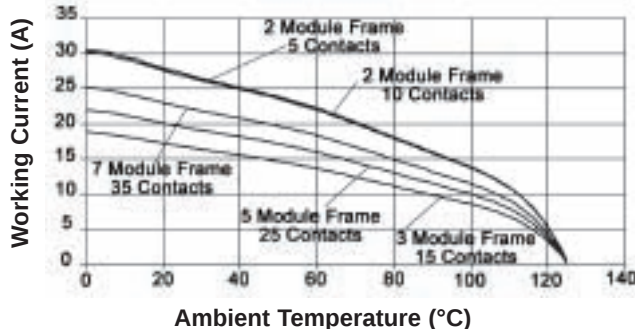
**4 MODULE MACHINE CONTACTS:
2.5 mm² (14 AWG)**



**5 MODULE MACHINE CONTACTS:
4 mm² (12 AWG)**



**5 MODULE MACHINE CONTACTS:
2.5 mm² (14 AWG)**

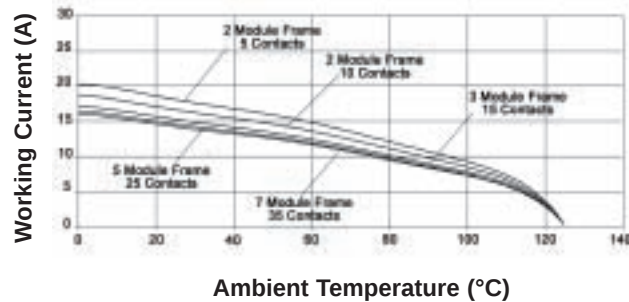


EPIC® CONNECTORS

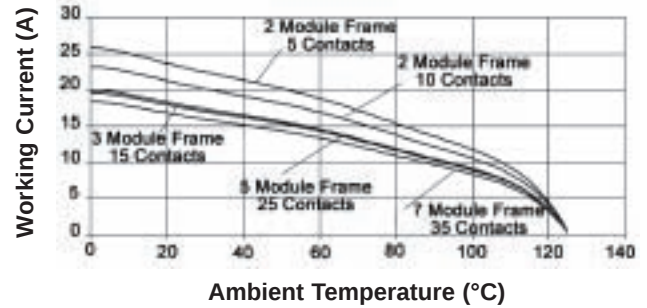
Modular Series

TECHNICAL DATA: DERATING CURVES

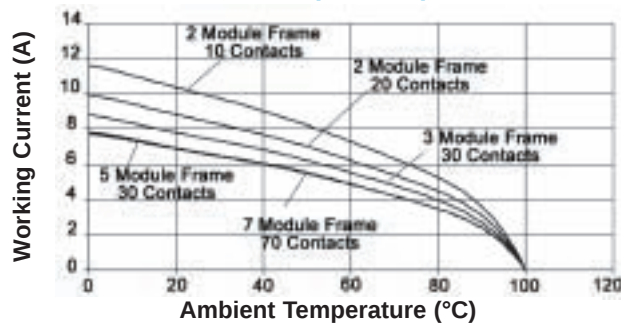
5 MODULE STAMPED CONTACTS:
1.5 mm² (16 AWG)



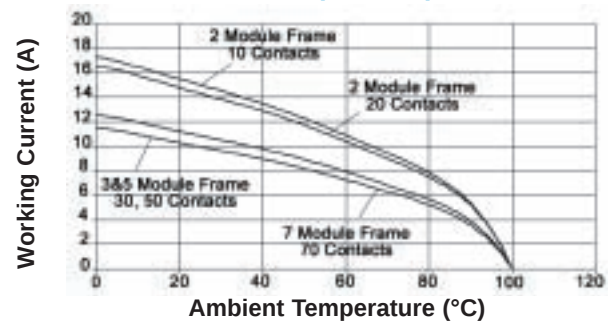
5 MODULE STAMPED CONTACTS:
2.5 mm² (14 AWG)



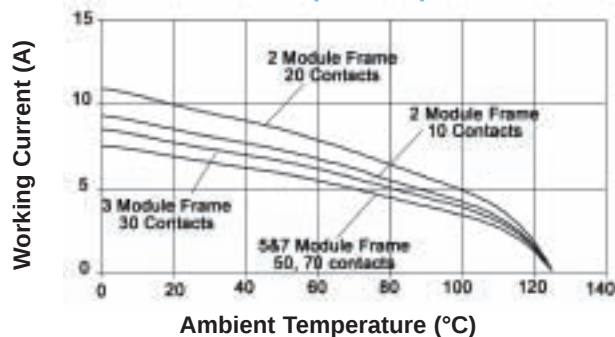
10 MODULE MACHINE CONTACTS:
0.5 mm² (20 AWG)



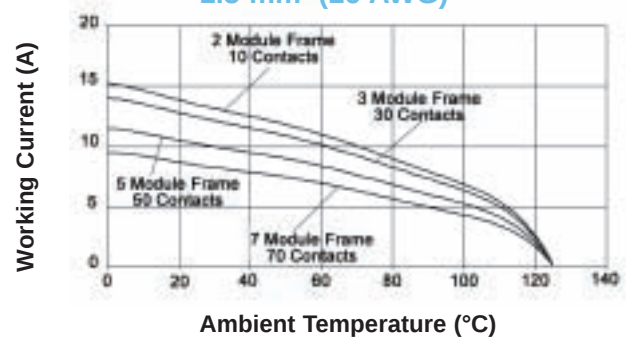
10 MODULE MACHINE CONTACTS:
1.5 mm² (16 AWG)



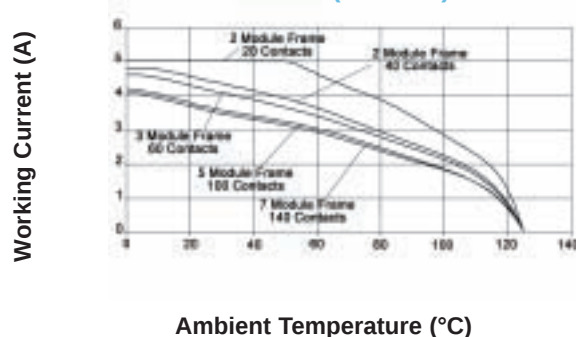
10 MODULE STAMPED CONTACTS:
0.5 mm² (20 AWG)



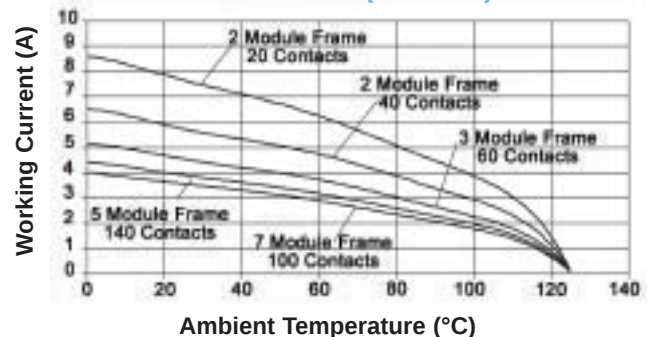
10 MODULE STAMPED CONTACTS:
1.5 mm² (16 AWG)



20 MODULE STAMPED CONTACTS :
0.25 mm² (24 AWG)



20 MODULE STAMPED CONTACTS:
0.5 mm² (20 AWG)



EPIC® CONNECTORS

Modular Series

CHOOSE YOUR MODULES

Modules	Plug	Receptacle	Rated Voltage	Rated Current	Page #
2 Contact Module: 2 Working Contacts	10.344100	10.345100	1000V	82A	421
2 Contact Module with ground	10.344600	10.345600	1000V	82A	421
3 Contact Coax Module	10.3992	10.3993	250V	-	422
3 Contact Module	10.3820	10.3821	630V	40A	423
3 Contact High Voltage Module	10.3998	10.3999	1000V	50A	424
4 Contact Module	10.3990	10.3991	630V	25A	425
4+PE Contact High Voltage Module	10.3832	10.3833	1000V	16A	426
5 Contact Module	10.3822	10.3823	400V	20A	427
10 Contact Module: Stamped & Formed	10.3834	10.3835	250V	10A	428
10 Contact Module: Machine Crimp	10.3824	10.3825	250V	10A	429
20 Contact Module	10.3836	10.3837	100V	4A	430
Dummy Module	10.3994	10.3995	-	-	431
4 Contact Cage Clamp Module	10.3996	10.3997	400V	14A	431
Profibus DP Module	10.3904	10.3905	30V	1A	431

CHOOSE YOUR FRAME BASED ON THE NUMBER OF MODULES

Frames	For Plugs	For Receptacles	Corresponding Housing	Page #
Frames for 2 modules	10.3810	10.3811	HBE 6 Series	432
Frames for 3 modules	10.3812	10.3813	HBE 10 Series	434
Frames for 5 modules	10.3814	10.3815	HBE 16 Series	438
Frames for 7 modules	10.3816	10.3817	HBE 24 Series	442
Frames for 10 modules	10.3814(2X)	10.3815(2X)	HBE 32 Series	446
Frames for 14 modules	10.3816(2X)	10.3817(2X)	HBE 48 Series	448

Modules snap
into frame



Note:
Color of components
may be different then
shown.

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles

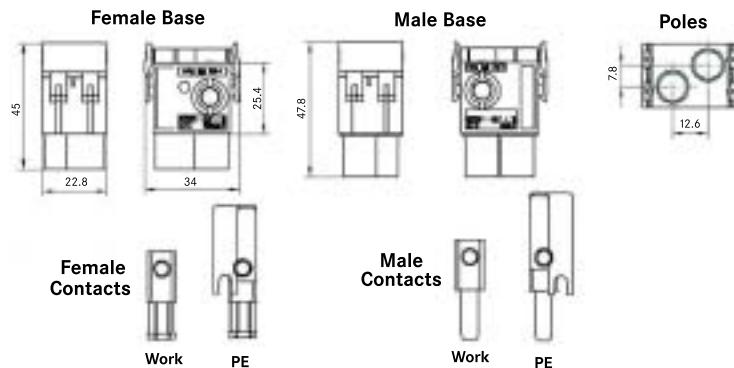


2 CONTACT MODULES

2 Working Contacts



1 Working Contact & 1 Ground



All dimensions are in mm.

Description	Plug	Receptacle	Rated Voltage	Rated Current
2 Working Contacts	10.344100	10.345100	1000V	82A
1 Working Contact & 1 Ground	10.344600	10.345600	1000V	82A

TECHNICAL DATA

Termination Type:

Screw: mm^2 AWG
4 - 16 12 - 6

Contacts:

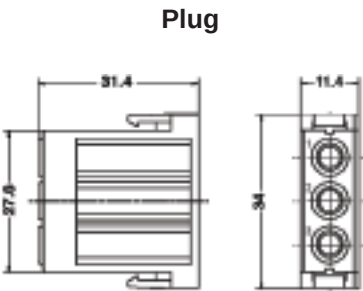
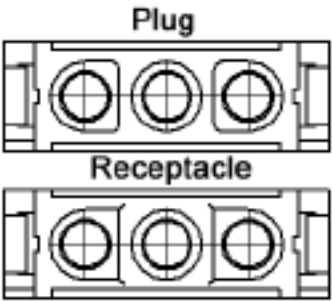
Material: Basic material brass; 2 μ Nickel and 2-3 μ Silver (AG)
Contact Material: Silver plated
Mating Cycles: 100 (higher mating cycles depending on the application)
Contact Resistance: 1.5 -4 m Ω

FEATURES

- The new module can be inserted into the standard EPIC® Modular Frames.
- The modules can be inserted or removed from the frame without a tool because of the snap hooks.
- These screw contact modules can be easily wired with a standard screwdriver.
- The flexibility of the modular series allows the arrangement of modules to fit requirements.
- This module takes up 2 slots in the modular frame.
- The high current modules require the usage of high profile HBE 16 and HBE 24 housings.



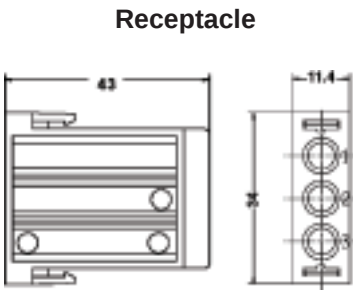
3 CONTACT COAX MODULES



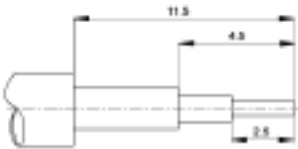
Contacts Sold Separately

Plug	Receptacle	Rated Voltage	Cable Sizes	Impedance
10.3992	10.3993	250V	RG 58	50 Ohm

DIN 41612



COAX CONTACTS



Silver		Wire Gauge RG 58
Pin	Socket	
11.2142	11.2192	

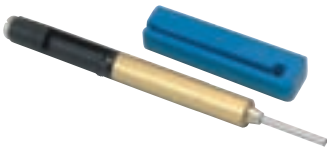
TOOLS



Locator
11.147130



Crimp Tool
11.1470



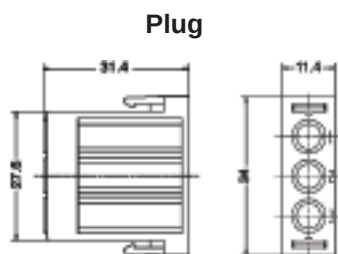
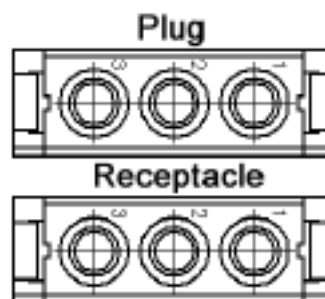
Removal Tool
11.1711

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles

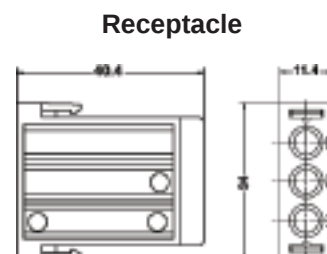


3 CONTACT MODULES

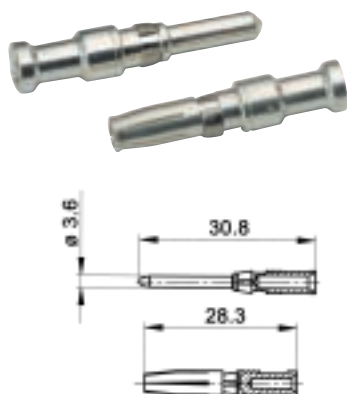


Plug	Receptacle	Rated Voltage	Rated Current
10.3820	10.3821	630V	40A

Contacts Sold Separately



MACHINE CONTACTS: DIAMETER 3.6 MM



Bags of 100				
mm ²	AWG	Silver		Stripping Length
		Pin	Socket	
1.5	16	11.2107	11.2157	10
2.5	14	11.2106	11.2156	10
4.0	12	11.2100	11.2150	10
6.0	10	11.2101	11.2151	10
10	8	11.2102	11.2152	10

Part number= 1 contact

TOOLS



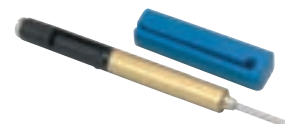
Locator
11.147210



Crimp Dies
1.5 - 2.5: 11.147110
4.0 - 10: 11.147120



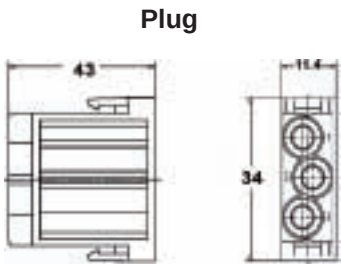
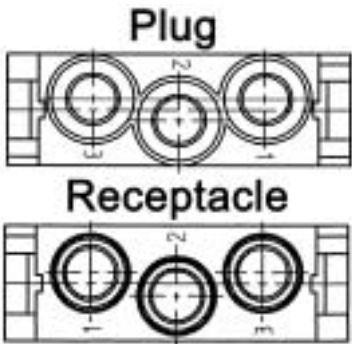
Crimp Tool
11.1470



Removal Tool
11.1711

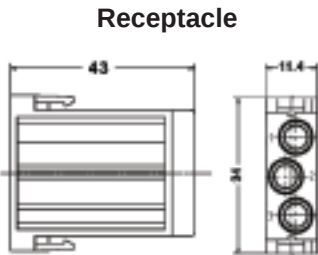


3 CONTACT HIGH VOLTAGE MODULES

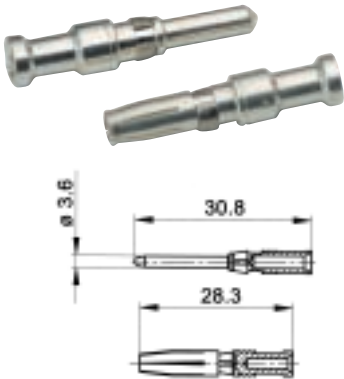


Plug	Receptacle	Rated Voltage	Rated Current
10.3998	10.3999	1000V	50A

Contacts Sold Separately



MACHINE CONTACTS: DIAMETER 3.6 MM



Bags of 100				
mm²	AWG	Silver		Stripping Length
		Pin	Socket	
1.5	16	11.2107	11.2157	10
2.5	14	11.2106	11.2156	10
4.0	12	11.2100	11.2150	10
6.0	10	11.2101	11.2151	10
10	8	11.2102	11.2152	10

Part number= 1 contact

TOOLS



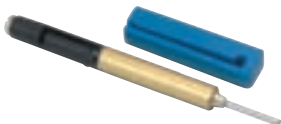
Locator
11.147210



Crimp Dies
1.5 - 2.5: 11.147110
4.0 - 10: 11.147120



Crimp Tool
11.1470



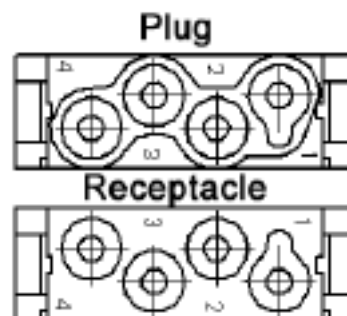
Removal Tool
11.1711

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles



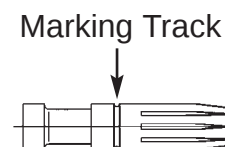
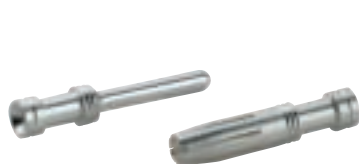
4 CONTACT HE MODULES



Plug	Receptacle	Rated Voltage	Rated Current
10.3990	10.3991	630V	25A

Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 2.5 MM



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	# of Marking Tracks
		Pin	Socket	Pin	Socket		
0.5	20	11.1900	11.1950	11.1920	11.1970	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11.1901	11.1951	11.1921	11.1971	Pin=7.4, Socket =7.3	1
1.5	16	11.1902	11.1952	11.1922	11.1972	Pin=7.4, Socket =7.3	2
2.5	14	11.1903	11.1953	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11.1904	11.1954	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470

Crimp Dies
11.1471

Locator
11.1472

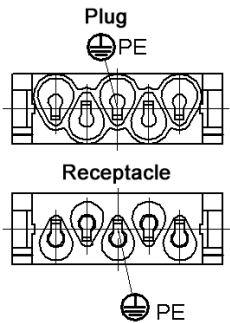
Removal Tool
11.1825

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles



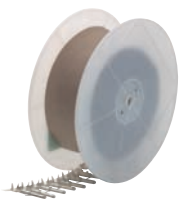
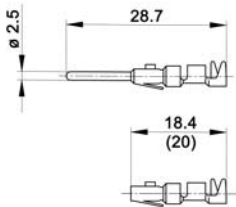
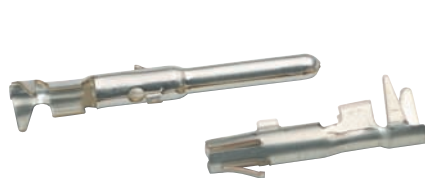
4+PE CONTACT HIGH VOLTAGE MODULES



Plug	Receptacle	Rated Voltage	Rated Current
10.3832	10.3833	1000V	16A

Contacts Sold Separately

STAMPED & FORMED CONTACTS: DIAMETER 2.5 MM



Reel feeds from the left.

mm²	AWG	Bags of 100		Reels of 100		Reels of 200		Stripping Length
		Silver		Silver		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.5 - 1.5	20 - 16	11.2010	11.2050	-	-	11.2080	11.2090	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2020	11.2060	11.2085	11.2095	-	-	3.5 - 0.5

Part number= 1 contact (bags) or 1 reel.

TOOLS



Crimp Tool
11.1470



Locator
0.5 - 1.5: 11.1473
1.5 - 2.5: 11.147310



Removal Tool
11.1600



Crimp Tool for Reel
11.1535



Crimp Dies
0.5 - 1.5: 11.147180
1.5 - 2.5: 11.147190

Crimp Dies for Reel:
0.5 - 1.5: 11.1537
1.5 - 2.5: 11.1538

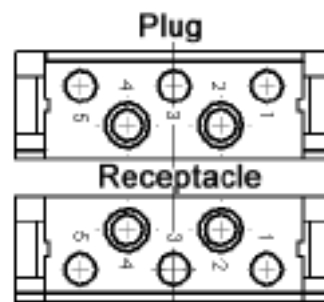


EPIC® CONNECTORS

Modular Series: Plugs & Receptacles

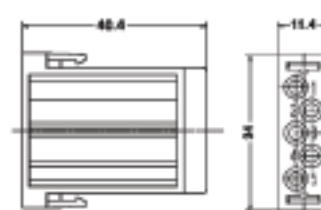
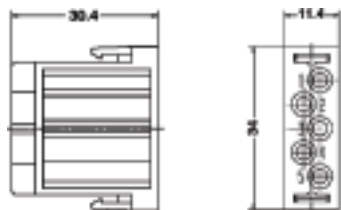


5 CONTACT HIGH VOLTAGE MODULES



Plug

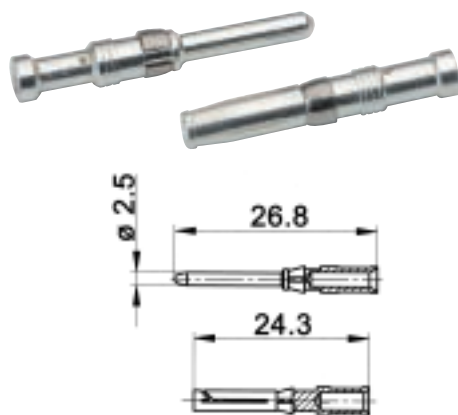
Receptacle



Plug	Receptacle	Rated Voltage	Rated Current
10.3822	10.3823	400V	20A

Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 2.5 MM

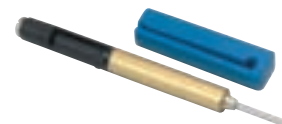


Bags of 100

mm²	AWG	Silver		Stripping Length	# of Marking Tracks
		Pin	Socket		
0.5	20	11.2130	11.2180	7.8	-
0.75 - 1.0	18	11.2131	11.2181	7.8	1
1.5	16	11.2132	11.2182	7.8	2
2.5	14	11.2133	11.2183	7.8	3
4.0	12	11.213400	11.2184	7.8	-

Part number= 1 contact

CRIMP TOOLS



Crimp Tool
11.1470

Crimp Dies
11.1471

Locator
11.1472

Removal Tool
11.1710

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles



10 CONTACT MODULES: STAMPED & FORMED CONTACTS

Plug

Plug
Receptacle

Receptacle

Plug	Receptacle	Rated Voltage	Rated Current
10.3834	10.3835	250V	10 A

Contacts Sold Separately

STAMPED & FORMED CONTACTS: DIAMETER 1.6 MM

mm²	Stripping Length (mm)
0.14 - 0.5	2.5 - 0.5
0.5 - 1.5	3.5 - 0.5
1.5 - 2.5	3.5 - 0.5

		Bags of 100				Silver: Left Hand Feed Reel			
mm²	AWG	Silver		Gold		Reel of 100		Reel of 200	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	-	-	11.2407	11.2307
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	-	-	11.2207	11.2357
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	-	-

		Reel of 2000: Right Hand Feed				Reel of 2000: Left Hand Feed			
mm²	AWG	Silver		Gold		Silver		Gold	
		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
0.14 - 0.5	26 - 20	11.2400	11.2300	-	-	11.2404	11.2304	11.2305	11.2405
0.5 - 1.5	20 - 16	11.2200	11.2350	11.2201	11.2352	11.2260	11.2265	-	-
1.5 - 2.5	16 - 14	-	-	-	-	11.2227	11.2277	-	-

Part number= 1 contact (bags) or 1 reel.

CRIMP TOOLS

Crimp Tool
11.1470

Locator
11.1473

Removal Tool
11.1610

Crimp Tool for Reel
11.1535

Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:

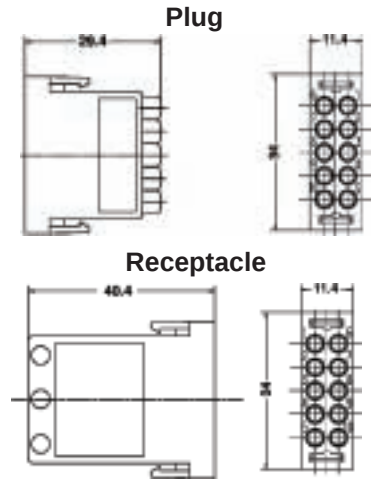
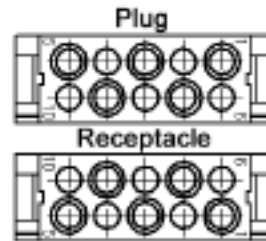
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles



10 CONTACT MODULES: MACHINE CRIMP CONTACTS



Plug	Receptacle	Rated Voltage	Rated Current
10.3824	10.3825	250V	10 A

Contacts Sold Separately

MACHINE CONTACTS: DIAMETER 1.6 MM



Bags of 100

mm ²	AWG	Silver		Gold		Stripping Length (mm)	Cross Section Characteristic
		Pin	Socket	Pin	Socket		
0.14 - 0.37	26 - 22	13.1620	13.1630	13.1625	13.1635	8	1
0.5	20	13.1621	13.1631	13.1626	13.1636	8	2
0.75 - 1.0	18	13.1622	13.1632	13.1627	13.1637	8	3
1.5	16	13.1623	13.1633	13.1628	13.1638	8	4
2.5	14	13.1624	13.1634	13.1629	13.1639	5.8	5

Part number= 1 contact

CRIMP TOOLS



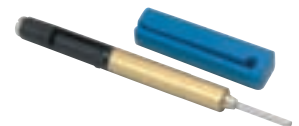
Crimp Tool
11.1470



Crimp Dies
11.1471



Locator
11.1472



Removal Tool
11.1610

FIBER OPTIC CONTACTS & TOOLS



Pin	Socket
11.2141	11.2191

Fiber Optic
Assembly Tool Set
11.184700

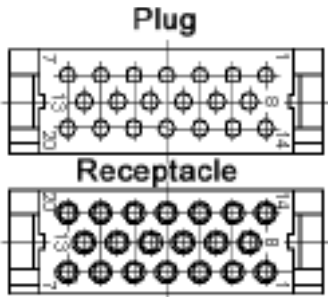


EPIC® CONNECTORS

Modular Series: Plugs & Receptacles

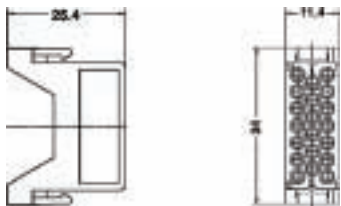


20 CONTACT MODULES



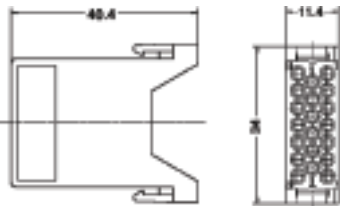
Plug

Receptacle



Plug	Receptacle	Rated Voltage	Rated Current
10.3836	10.3837	100V	4 A

Contacts Sold Separately



STAMPED & FORMED CONTACTS: DIAMETER 1.0 MM



Reel of 300				
mm²	AWG	Gold		Stripping Length
		Pin	Socket	
.08 - 0.2	28 - 26	11.3025	11.3027	2.5 - 0.5
0.2 - .52	26 - 20	11.3026	11.3028	2.5 - 0.5

Reel feeds from the left

* This conversion to AWG is approximate.

THERMOCOUPLE CONTACTS



mm²	AWG	Strip of 25						Color Code	Stripping Length
		Type K		Type J					
		Pin	Socket	Pin	Socket				
0.25 - .52	24-20	TC-CH-P	TC-CH-S	-	-	Chromel	+	White	2.5 - 0.5
		-	-	TC-IR-P	TC-IP-S	Iron	+	Black	2.5 - 0.5
		TC-AL-P	TC-ASL-S	-	-	Alumel	-	Green	2.5 - 0.5
		-	-	TC-CO-P	TC-CO-S	Constantan	-	Yellow	2.5 - 0.5

TOOLS



Crimp Tool
11.1584



Removal Tool
11.1325

EPIC® CONNECTORS

Modular Series: Plugs & Receptacles

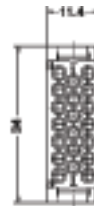
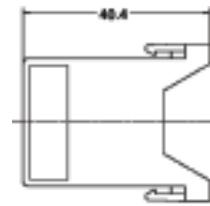


DUMMY MODULES: 0 CONTACTS



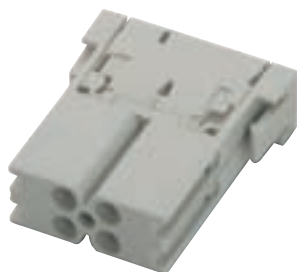
Plug

Receptacle

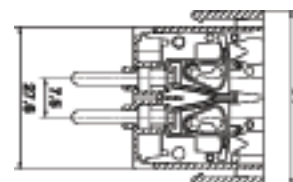
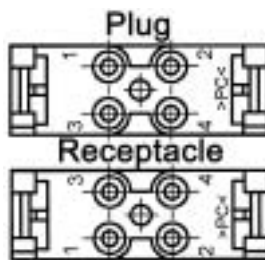


Plug	Receptacle
10.3994	10.3995

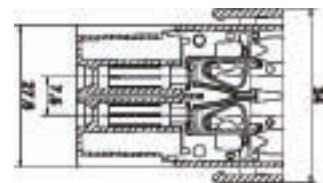
CAGE CLAMP MODULES: 4 CONTACTS



Plug



Receptacle



Plug	Receptacle	Rated Voltage	Rated Current	Wire Gauge
10.3996	10.3997	400V	14 A	Single Wire: 4.0 mm ² Fine Wire: 2.5 mm ²

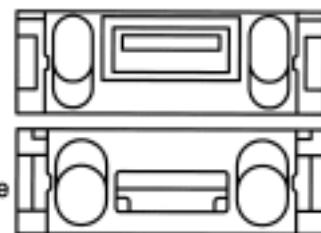


PROFIBUS DP MODULES: 2 CONTACTS & SHIELD



Plug

Receptacle



Mount in High Profile Housings only.

Plug	Receptacle	Rated Voltage	Rated Current
10.3904	10.3905	30V	1 A

EPIC® CONNECTORS

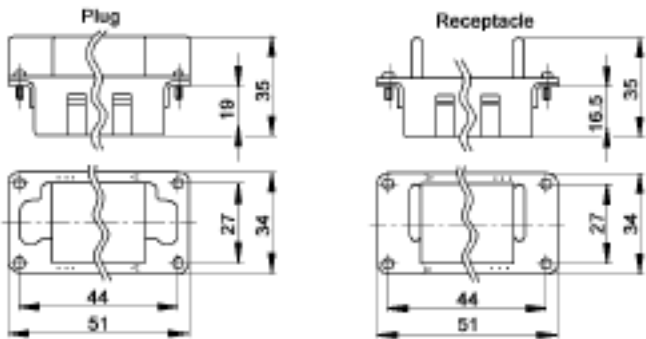
Modular Series: Frames

2 MODULE FRAME



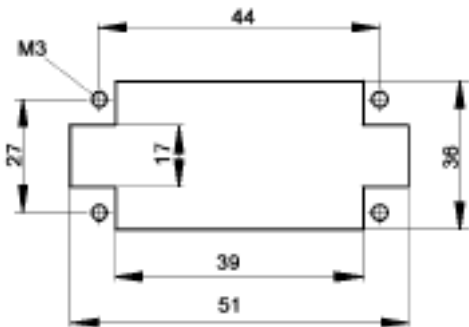
These frames hold
two modules.

Plug	Receptacle
10.3810	10.3811



All dimensions are in mm.

Panel Cut-Out
(Insert Only)



MODULE REMOVAL TOOL



Removal Tool:
11.1712

MATING COMPONENTS

2 module frames fit into EPIC® HBE 6 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 278). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 6 Housings: Single Lever on Base for 2 Module Frames



Dust Cover- 10.0165

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	13.5	1/2"	10.0110	10.0110 NP	70.0216	70.0216 NP
	16	1/2"	10.0210	10.0210 NP	70.0210	70.0210 NP
Side Entry	13.5	1/2"	10.0120	10.0120 NP	70.0236	70.0236 NP
	16	1/2"	10.0220	10.0220 NP	70.0230	70.0230 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0202	70.0202 NP	70.0212	70.0212 NP
	29	1"	70.0204	70.0204 NP	70.0214	70.0214 NP
Side Entry	21	3/4"	70.0222	70.0222 NP	70.0232	70.0232 NP
	29	1"	70.0224	70.0224 NP	70.0234	70.0234 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0030	70.0025
With Dust Cover	10.0040	70.0045

Dust Cover- 10.0150

SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0060	10.0060 NP	70.0080	70.0080 NP
1 Entry	16	1/2"	10.0050	10.0050 NP	70.0070	70.0070 NP
2 Entries with dust cover	16	1/2"	10.0090	10.0090 NP	70.0180	70.0180 NP
1 Entry with dust cover	16	1/2"	10.0070	10.0070 NP	70.0170	70.0170 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0062	70.0062 NP	70.0082	70.0082 NP
	29	1"	70.0064	70.0064 NP	70.0084	70.0084 NP
1 Entry	21	3/4"	70.0052	70.0052 NP	70.0072	70.0072 NP
	29	1"	70.0054	70.0054 NP	70.0074	70.0074 NP
2 Entries with dust cover	21	3/4"	70.0162	70.0162 NP	70.0182	70.0182 NP
	29	1"	70.0164	70.0164 NP	70.0184	70.0184 NP
1 Entry with dust cover	21	3/4"	70.0152	70.0152 NP	70.0172	70.0172 NP
	29	1"	70.0154	70.0154 NP	70.0174	70.0174 NP



Dust Cover- 10.0150

CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	13.5	1/2"	10.0140	10.0140 NP	-	-
	16	1/2"	10.0240	10.0240 NP	70.0110	70.0110 NP
High Profile	21	3/4"	70.0102	70.0102 NP	70.0112	70.0112 NP
	29	1"	70.0104	70.0104 NP	70.0114	70.0114 NP

Dust Cover- 10.0150



EPIC® CONNECTORS

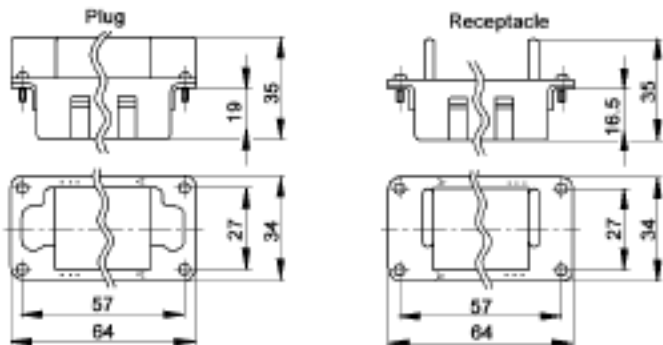
Modular Series: Frames

3 MODULE FRAME



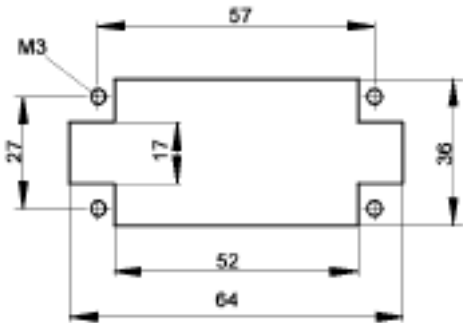
These frames hold
three modules.

Plug	Receptacle
10.3812	10.3813



All dimensions are in mm.

Panel Cut-Out
(Insert Only)



MODULE REMOVAL TOOL



Removal Tool:
11.1712

MATING COMPONENTS

3 module frames fit into EPIC® HBE 10 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 283). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 10 Housings: Single Lever on Base for 3 Module Frames

HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0409	10.0409 NP	70.0490	70.0490 NP
	21	3/4"	10.0407	10.0407 NP	70.0496	70.0496 NP
Side Entry	16	1/2"	10.0429	10.0429 NP	70.0590	70.0590 NP
	21	3/4"	10.0428	10.0428 NP	70.0596	70.0596 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0442	70.0442 NP	70.0492	70.0492 NP
	29	1"	70.0444	70.0444 NP	70.0494	70.0494 NP
Side Entry	21	3/4"	70.0542	70.0542 NP	70.0592	70.0592 NP
	29	1"	70.0544	70.0544 NP	70.0594	70.0594 NP

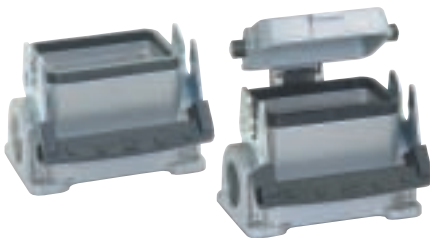
PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0329	70.0327
With Dust Cover	10.0339	70.0337

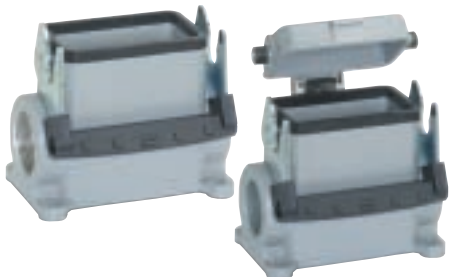
SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0359	10.0359 NP	70.0630	70.0630 NP
1 Entry	16	1/2"	10.0349	10.0349 NP	70.0620	70.0620 NP
	21	3/4"	10.0347	10.0347 NP	-	-
2 Entries with dust cover	16	1/2"	10.0389	10.0389 NP	70.0670	70.0670 NP
	-	-	-	-	-	-
1 Entry with dust cover	16	1/2"	10.0369	10.0369 NP	70.0660	70.0660 NP
	-	-	-	-	-	-

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0612	70.0612 NP	70.0632	70.0632 NP
	29	1"	70.0614	70.0614 NP	70.0634	70.0634 NP
1 Entry	21	3/4"	70.0602	70.0602 NP	70.0622	70.0622 NP
	29	1"	70.0604	70.0604 NP	70.0624	70.0624 NP
2 Entries with dust cover	21	3/4"	70.0652	70.0652 NP	70.0672	70.0672 NP
	29	1"	70.0654	70.0654 NP	70.0674	70.0674 NP
1 Entry with dust cover	21	3/4"	70.0642	70.0642 NP	70.0662	70.0662 NP
	29	1"	70.0644	70.0644 NP	70.0664	70.0664 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0469	10.0469 NP	70.0430	70.0430 NP
	21	3/4"	70.0422	70.0422 NP	70.0432	70.0432 NP
High Profile	21	3/4"	70.0424	70.0424 NP	70.0434	70.0434 NP
	29	1"	70.0426	70.0426 NP	70.0436	70.0436 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Base for 3 Module Frames

HOODS

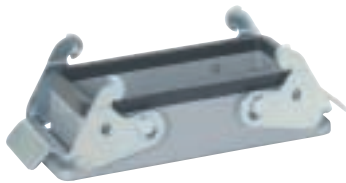


STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0400	10.0400 NP	70.0510	70.0510 NP
	21	3/4"	10.0401	10.0401 NP	70.0512	70.0512 NP
Side Entry	16	1/2"	10.0420	10.0420 NP	70.0530	70.0530 NP
	21	3/4"	10.0421	10.0421 NP	70.0532	70.0532 NP

HIGH PROFILE

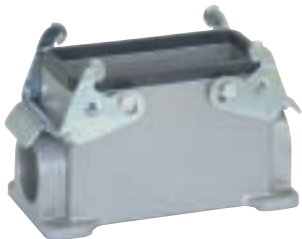
Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0504	70.0504 NP	70.0514	70.0514 NP
	29	1"	70.0506	70.0506 NP	70.0516	70.0516 NP
Side Entry	21	3/4"	70.0524	70.0524 NP	70.0534	70.0534 NP
	29	1"	70.0526	70.0526 NP	70.0536	70.0536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0320	70.0325

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0350	10.0350 NP	70.0380	70.0380 NP
1 Entry	16	1/2"	10.0340	10.0340 NP	70.0370	70.0370 NP



HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0362	70.0362 NP	70.0382	70.0382 NP
	29	1"	70.0364	70.0364 NP	70.0384	70.0384 NP
1 Entry	21	3/4"	70.0352	70.0352 NP	70.0372	70.0372 NP
	29	1"	70.0354	70.0354 NP	70.0374	70.0374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	16	1/2"	10.0460	10.0460 NP	70.0410	70.0410 NP
	21	3/4"	70.0402	70.0402 NP	70.0412	70.0412 NP
High Profile	16	1/2"	70.0404	70.0404 NP	70.0414	70.0414 NP
	21	3/4"	70.0406	70.0406 NP	70.0416	70.0416 NP

EPIC® CONNECTORS

HBE 10 Housings: Double Levers on Hood for 3 Module Frames

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	16	1/2"	10.0410	10.0410 NP	70.0560	70.0560 NP
Side Entry	16	1/2"	10.0450	10.0450 NP	70.0580	70.0580 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0552	70.0552 NP	70.0562	70.0562 NP
	29	1"	70.0554	70.0554 NP	70.0564	70.0564 NP
Side Entry	21	3/4"	70.0572	70.0572 NP	70.0582	70.0582 NP
	29	1"	70.0574	70.0574 NP	70.0584	70.0584 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.0330	70.0335

SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	16	1/2"	10.0380	10.0380 NP	70.0480	70.0480 NP
1 Entry	16	1/2"	10.0360	10.0360 NP	70.0470	70.0470 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0462	70.0462 NP	70.0482	70.0482 NP
	29	1"	70.0464	70.0464 NP	70.0484	70.0484 NP
1 Entry	21	3/4"	70.0452	70.0452 NP	70.0472	70.0472 NP
	29	1"	70.0454	70.0454 NP	70.0474	70.0474 NP

DUST COVERS WITH ATTACHMENT STRING



Material: Thermoplastic Resin

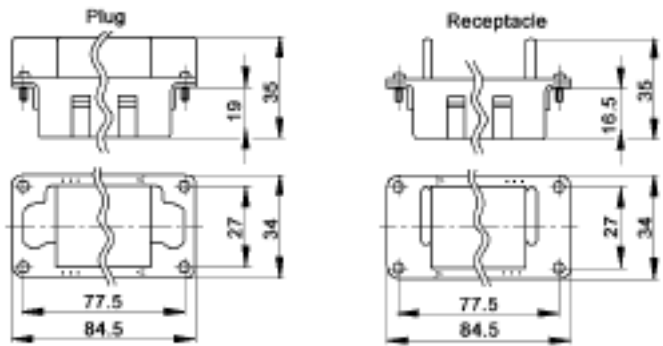
Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 10 Hoods	10.0486
Dust cover with single lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0487
Dust cover with double levers and gasket for HBE 10 Hoods	10.0485
Dust cover with double lever bolts for HBE 10 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0470
Dust cover with double lever bolts and gasket for HBE 10 Hoods	10.0471

EPIC® CONNECTORS

Modular Series: Frames

5 MODULE FRAME

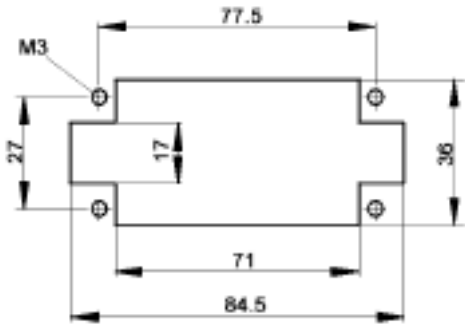


All dimensions are in mm.

These frames hold
five modules.

Plug	Receptacle
10.3814	10.3815

Panel Cut-Out
(Insert Only)



MODULE REMOVAL TOOL



Removal Tool:
11.1712

MATING COMPONENTS

5 module frames fit into EPIC® HBE 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for 5 Module Frames

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

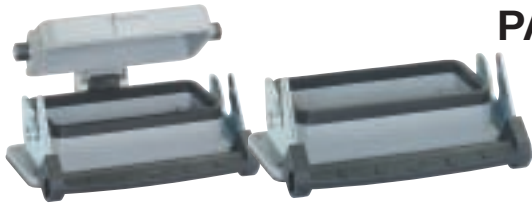
HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP



EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base for 5 Module Frames

HOODS



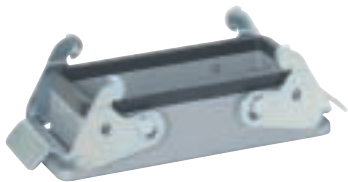
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood for 5 Module Frames

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0731	-
With Dust Cover	10.0730	70.0835



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C



	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface MountBase/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface MountBase/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

EPIC® CONNECTORS

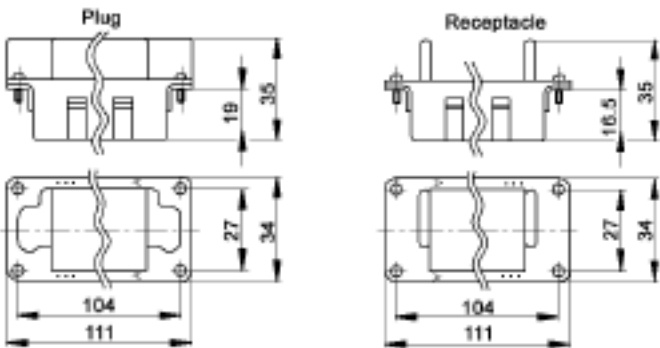
Modular Series: Frames

7 MODULE FRAME



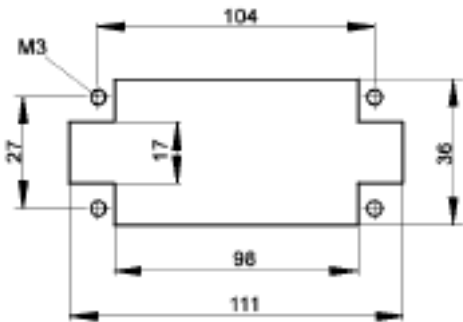
These frames hold seven modules.

Plug	Receptacle
10.3816	10.3817



All dimensions are in mm.

Panel Cut-Out
(Insert Only)



MODULE REMOVAL TOOL



Removal Tool:
11.1712

MATING COMPONENTS

7 module frames fit into EPIC® HBE 24 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base for 7 Module Frames

HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1219	10.1219 NP	70.1490	70.1490 NP
	29	1"	10.1119	10.1119 NP	70.1492	70.1492 NP
Side Entry	21	3/4"	10.1139	10.1139 NP	70.1590	70.1590 NP
	29	1"	10.1239	10.1239 NP	70.1592	70.1592 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1444	70.1444 NP	70.1494	70.1494 NP
	29	1"	70.1446	70.1446 NP	70.1496	70.1496 NP
Side Entry	21	3/4"	70.1544	70.1544 NP	70.1594	70.1594 NP
	29	1"	70.1546	70.1546 NP	70.1596	70.1596 NP

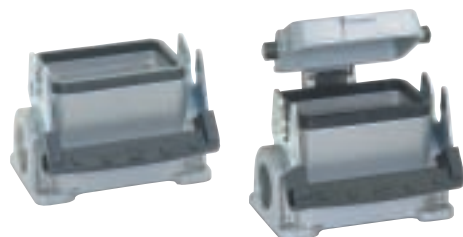


PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1029	70.1327
With Dust Cover	10.1039	70.1337

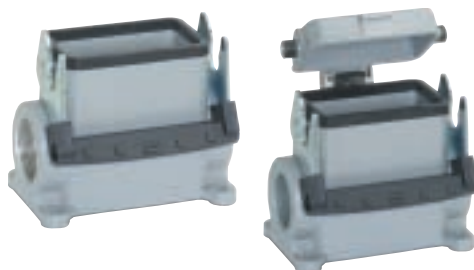
SURFACE MOUNT BASES

STANDARD PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1059	10.1059 NP	70.1630	70.1630 NP
1 Entry	21	3/4"	10.1049	10.1049 NP	70.1620	70.1620 NP
2 with cover	21	3/4"	10.1099	10.1099 NP	70.1670	70.1670 NP
1 with cover	21	3/4"	10.1079	10.1079 NP	70.1660	70.1660 NP

HIGH PROFILE



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1612	70.1612 NP	70.1632	70.1632 NP
	29	1"	70.1614	70.1614 NP	70.1634	70.1634 NP
1 Entry	21	3/4"	70.1602	70.1602 NP	70.1622	70.1622 NP
	29	1"	70.1604	70.1604 NP	70.1624	70.1624 NP
2 Entries with dust cover	21	3/4"	70.1652	70.1652 NP	70.1672	70.1672 NP
	29	1"	70.1654	70.1654 NP	70.1674	70.1674 NP
1 Entry with dust cover	21	3/4"	70.1642	70.1642 NP	70.1662	70.1662 NP
	29	1"	70.1644	70.1644 NP	70.1664	70.1664 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1279	10.1279 NP	70.1430	70.1430 NP
	29	1"	10.1179	10.1179 NP	70.1432	70.1432 NP
High Profile	21	3/4"	70.1424	70.1424 NP	70.1434	70.1434 NP
	29	1"	70.1426	70.1426 NP	70.1436	70.1436 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Base for 7 Module Frames

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1210	10.1210 NP	70.1510	70.1510 NP
	29	1"	10.1110	10.1110 NP	70.1512	70.1512 NP
Side Entry	21	3/4"	10.1130	10.1130 NP	70.1530	70.1530 NP
	29	1"	10.1230	10.1230 NP	70.1532	70.1532 NP

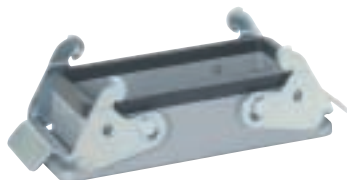
HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1504	70.1504 NP	70.1514	70.1514 NP
	29	1"	70.1506	70.1506 NP	70.1516	70.1516 NP
Side Entry	21	3/4"	70.1524	70.1524 NP	70.1534	70.1534 NP
	29	1"	70.1526	70.1526 NP	70.1536	70.1536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1020	70.1325



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1050	10.1050 NP	70.1380	70.1380 NP
1 Entry	21	3/4"	10.1040	10.1040 NP	70.1370	70.1370 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1362	70.1362 NP	70.1382	70.1382 NP
	29	1"	70.1364	70.1364 NP	70.1384	70.1384 NP
1 Entry	21	3/4"	70.1352	70.1352 NP	70.1372	70.1372 NP
	29	1"	70.1354	70.1354 NP	70.1374	70.1374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1270	10.1270 NP	70.1410	70.1410 NP
	29	1"	10.1170	10.1170 NP	70.1412	70.1412 NP
High Profile	21	3/4"	70.1404	70.1404 NP	70.1414	70.1414 NP
	29	1"	70.1406	70.1406 NP	70.1416	70.1416 NP



EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood for 7 Module Frames

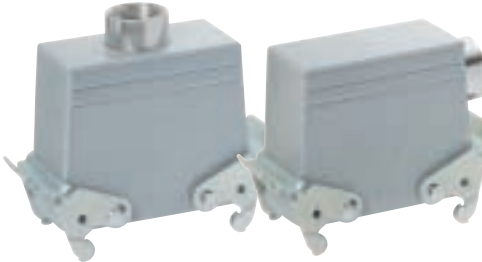
HOODS

STANDARD PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1220	10.1220 NP	70.1560	70.1560 NP
	29	1"	10.1120	10.1120 NP	70.1562	70.1562 NP
Side Entry	21	3/4"	10.1140	10.1140 NP	70.1580	70.1580 NP
	29	1"	10.1240	10.1240 NP	70.1582	70.1582 NP

HIGH PROFILE



Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1554	70.1554 NP	70.1564	70.1564 NP
	29	1"	70.1556	70.1556 NP	70.1566	70.1566 NP
Side Entry	21	3/4"	70.1574	70.1574 NP	70.1584	70.1584 NP
	29	1"	70.1576	70.1576 NP	70.1586	70.1586 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.1030	70.1335
Without Dust Cover	10.1031	-

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1090	10.1090 NP	70.1480	70.1480 NP
1 Entry	21	3/4"	10.1070	10.1070 NP	70.1470	70.1470 NP
2 Entries with dust cover	21	3/4"	70.1462	70.1462 NP	70.1482	70.1482 NP
	29	1"	70.1464	70.1464 NP	70.1484	70.1484 NP
1 Entry with dust cover	21	3/4"	70.1452	70.1452 NP	70.1472	70.1472 NP
	29	1"	70.1454	70.1454 NP	70.1474	70.1474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature:

-40°C to 125°C

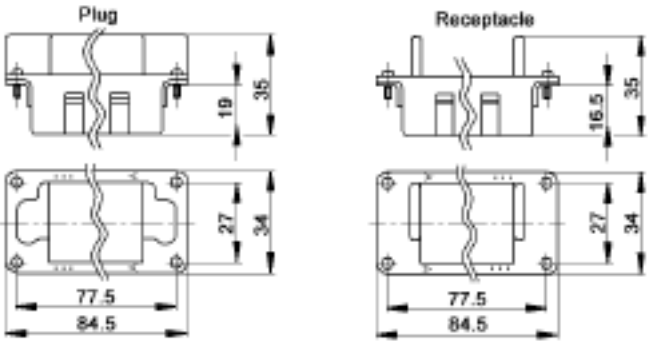


	Part #
Dust cover with single lever for HBE 24 Hoods	10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1187
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181

EPIC® CONNECTORS

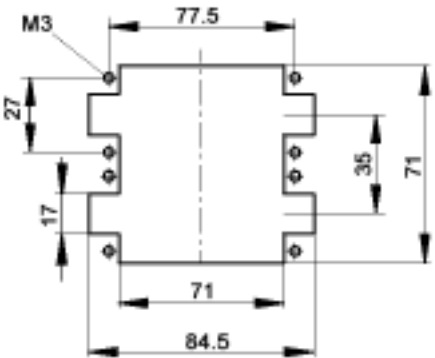
Modular Series: Frames

10 MODULE FRAME



All dimensions are in mm.

Panel Cut-Out
(Insert Only)



By using two sets of 5 module frames, 10 modules can be accommodated.

Plug	Receptacle
10.3814(2X)	10.3815(2X)

MODULE REMOVAL TOOL



Removal Tool:
11.1712

MATING COMPONENTS

10 module frames fit into EPIC® HBE 32 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 313). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 32 Housings for 10 Module Frames

DOUBLE LEVERS ON BASE



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1330	10.1330 NP
	29	1"	10.1340	10.1340 NP
Side Entry	21	3/4"	10.1350	10.1350 NP
	29	1"	10.1360	10.1360 NP

Part #
10.1320



# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1380	10.1380 NP
1 Entry	29	1"	10.1370	10.1370 NP

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
21	3/4"	10.1390	10.1390
29	1"	10.1395	10.1395 NP

Dust cover with double lever bolts and attachment string for panel mount or surface mount base or cable coupler hood: 10.1420

DOUBLE LEVERS ON HOOD



Position of Cable Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	70.2050	70.2050 NP
Side Entry	29	1"	10.1366	10.1366 NP

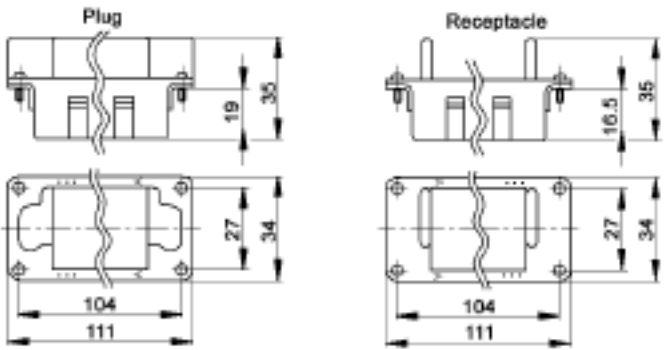
Part #
10.1323

Size of Entry		Standard Grey Coating	
PG	NPT	PG Part #	NPT Part #
29	1"	10.1373	10.1373 NP

EPIC® CONNECTORS

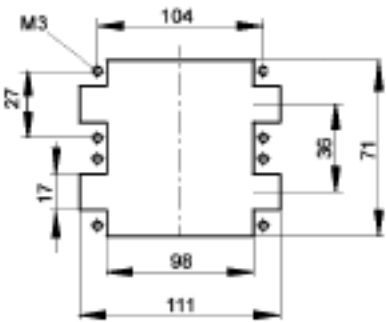
Modular Series: Frames

14 MODULE FRAME



All dimensions are in mm.

Panel Cut-Out
(Insert Only)



By using two sets of 7 module frames,
14 modules can be accommodated.

Plug	Receptacle
10.3814(2X)	10.3815(2X)

MODULE REMOVAL TOOL



Removal Tool:
11.1712

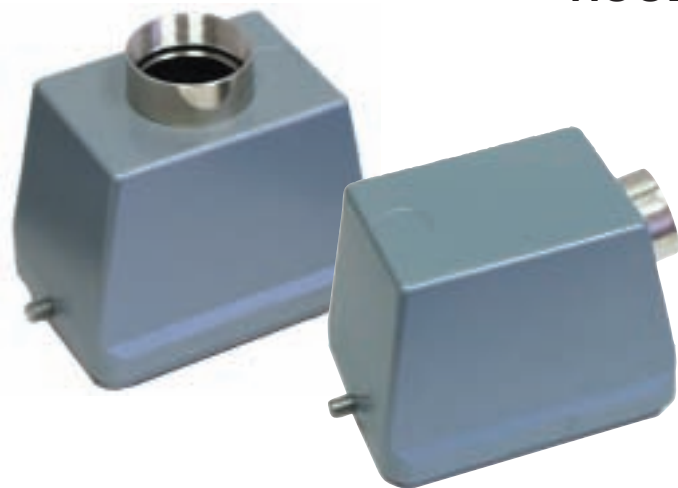
MATING COMPONENTS

14 module frames fit into EPIC® HBE 48 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page317). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 48 Housings: Single Lever on Base for 14 Module Frames

HOODS



Position of Entry	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
Top Entry	29	1"	10.1550	10.1550 NP
	36	1 1/4"	10.1560	10.1560 NP
	42	-	10.1570	-
Side Entry	29	1"	10.1580	10.1580 NP
	36	1 1/4"	10.1590	10.1590 NP
	42	-	10.1600	-

PANEL MOUNT BASES



Without Dust Cover	With Dust Cover with hold down screws and no dust cover bolts	With Dust Cover with hold down screws and dust cover bolts
10.1610	10.1520	10.1525

SURFACE MOUNT BASES



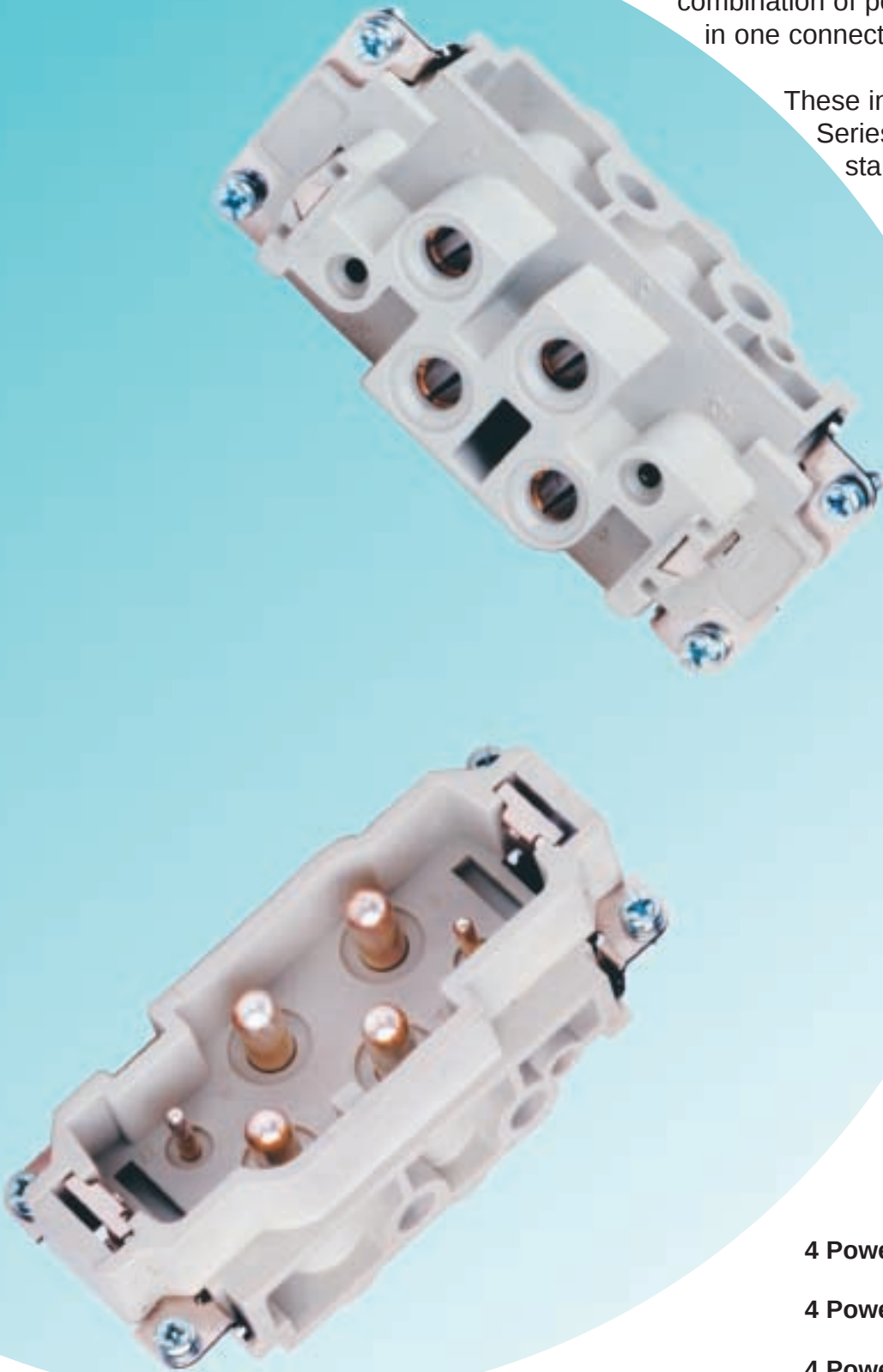
# of Entries	Size of Entry		Standard Grey Coating	
	PG	NPT	PG Part #	NPT Part #
2 Entries	29	1"	10.1660	10.1660 NP
	36	1 1/4"	10.1661	10.1661 NP
1 Entry	29	1"	10.1650	10.1650 NP
	36	1 1/4"	10.1651	10.1651 NP
2 Entries with dust cover	29	1"	10.1680	10.1680 NP
	36	1 1/4"	10.1681	10.1681 NP
1 Entry with dust cover	29	1"	10.1670	10.1670 NP
	36	1 1/4"	10.1671	10.1671 NP

EPIC® CONNECTORS

Mixed Power Series

The Mixed Power series inserts allow for a combination of power and signal contacts in one connector.

These inserts fit into the HBE Series housings which are standard with fixed levers.



4 Power/ 0 Signal	453
4 Power/ 2 Signal	453
4 Power/ 8 Signal	457

EPIC® CONNECTORS

Mixed Power Series

TECHNICAL DATA

Number of Contacts: 4 Power/ X Signal contacts
Pollution Level: 3
Rated Voltage: 600V UL/CSA
Test Voltage: 6 kV(4x0); 6kV/4kV (4X2); 4kV (4X8)
Temperature Range: -40°C to 125°C
Contact Material: Copper alloy, hard silver plated
Molding Material: Thermoplastic resin, fiberglass reinforced
Contact Resistance: < 0.3 mOhm (Principle);
 < 1 mOhm (Auxillary)
Termination Type: Screw
Insulation Group: C
Wire Size: Screw termination: up to 6 AWG, 16 mm² for power contacts
 Screw termination: up to 14 AWG, 2.5 mm² for signal contacts

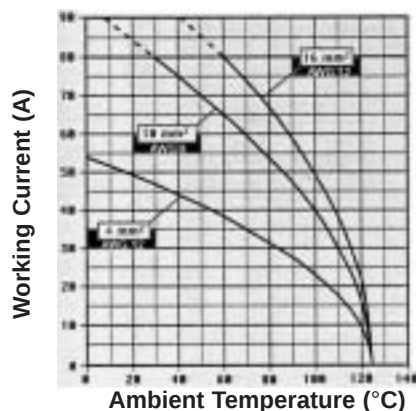
DIN VDE 0110/02.79 4X8 Principal Poles:
 80A, 400V - 475V
 4X0 and 4/2 Principal Poles:
 80A, 690V - 830V
 4X8 and 4X2 Auxiliary Poles:
 16A, 400V - 475V
DIN VDE 0110/01.89 4X8 Principal Poles: 80A, 400V
 4X0 and 4/2 Principal Poles:
 80A, 690V
 4X8 and 4X2 Auxiliary Poles:
 16A, 400V

UL File #E115072

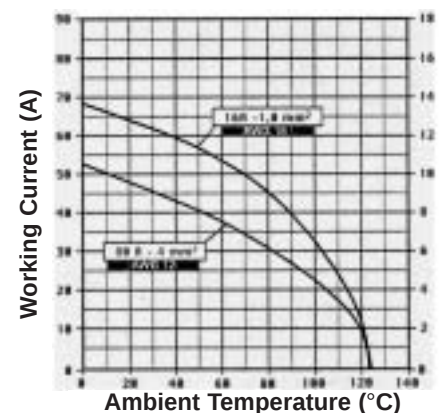
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TECHNICAL DATA: DERATING CURVES

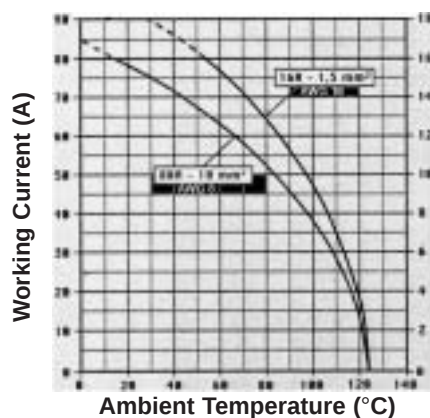
4 POWER/ 0 SIGNAL



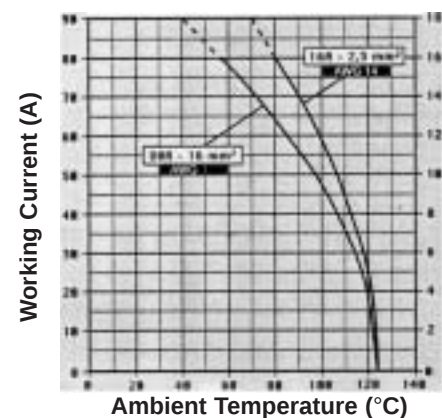
4 POWER/ 2 SIGNAL



4 POWER/ 2 SIGNAL



4 POWER/ 2 SIGNAL

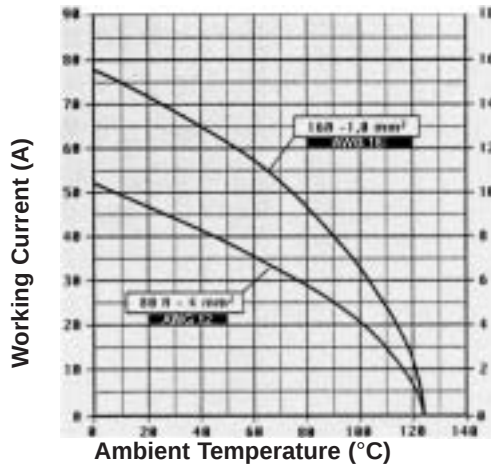


EPIC® CONNECTORS

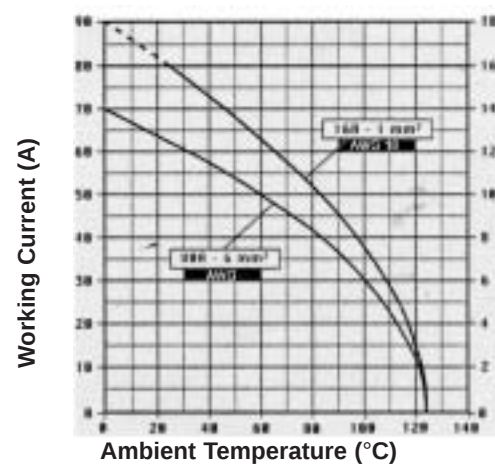
Mixed Power Series

TECHNICAL DATA: DERATING CURVES

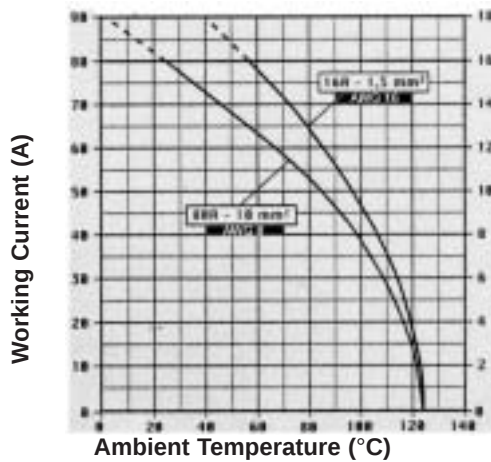
4 POWER/ 8 SIGNAL



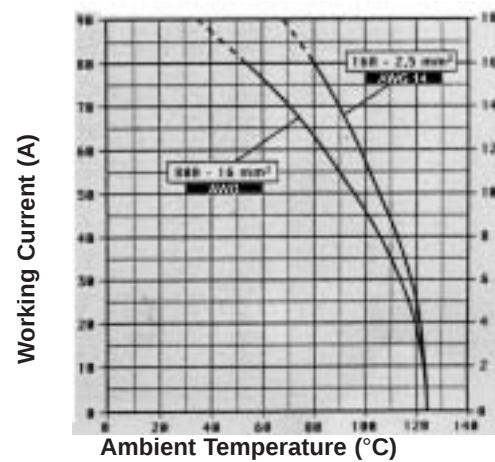
4 POWER/ 8 SIGNAL



4 POWER/ 8 SIGNAL



4 POWER/ 8 SIGNAL



MATING COMPONENTS

Specifications: DIN 43652
Temperature Range: -40°C to +125°C

Protection class: IP65
Material: Aluminum alloy, powder coated

Standard Grey Coating (NEMA 4)

EP Black Coating (NEMA 4X)

PG

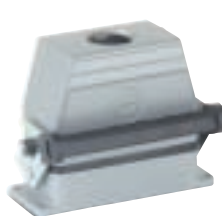
NPT

METRIC

PG

NPT

METRIC

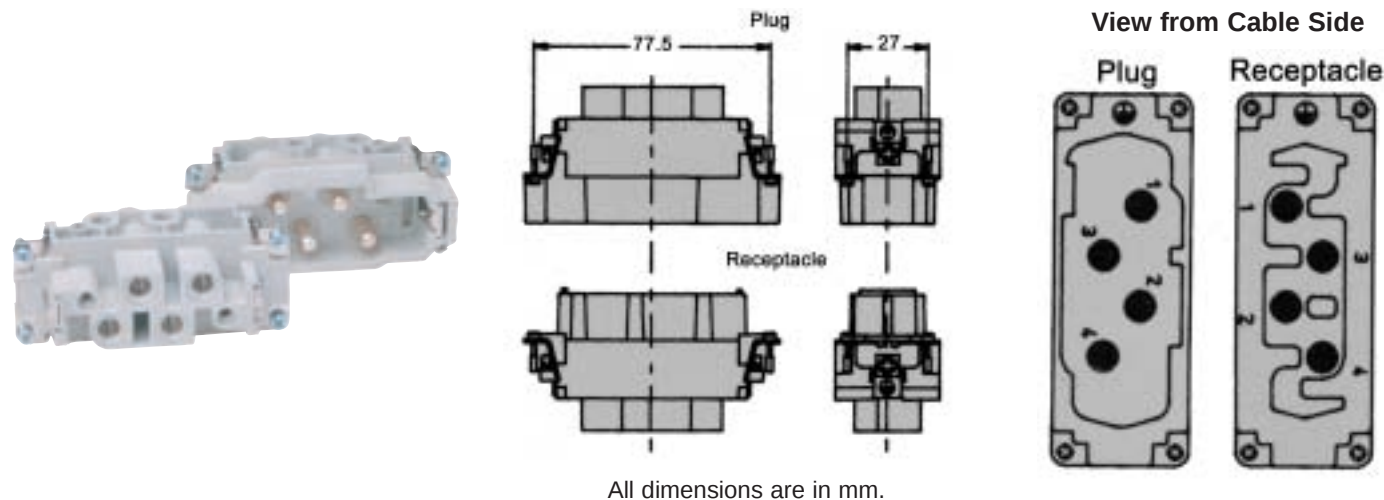


EPIC® CONNECTORS

Mixed Power Series



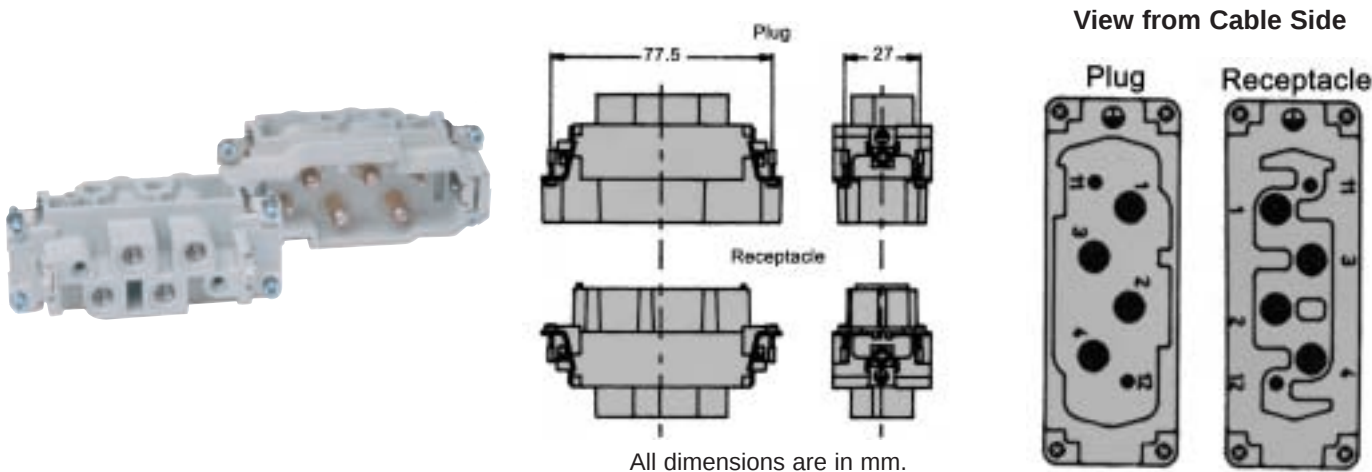
4 POWER/ 0 SIGNAL MIXED POWER INSERTS



All dimensions are in mm.

Plug	Receptacle
MP.M400	MP.F400

4 POWER/ 2 SIGNAL MIXED POWER INSERTS



All dimensions are in mm.

Plug	Receptacle
MP.M402	MP.F402

MATING COMPONENTS

4X0 and 4X2 Plugs & Receptacles fit into EPIC® HBE 16 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 293). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 16 Housings: Single Lever on Base for 4 Power/0 Signal,
4 Power/2 Signal Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0809	10.0809 NP	70.0990	70.0990 NP
	29	1"	10.0909	10.0909 NP	-	-
Side Entry	21	3/4"	10.0829	10.0829 NP	70.1090	70.1090 NP
	29	1"	10.0929	10.0929 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.0942	70.0942 NP	70.0992	70.0992 NP
	29	1"	70.0944	70.0944 NP	70.0994	70.0994 NP
Side Entry	21	3/4"	70.1042	70.1042 NP	70.1092	70.1092 NP
	29	1"	70.1044	70.1044 NP	70.1094	70.1094 NP

PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0729	70.0827
With Dust Cover	10.0739	70.0837

SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0759	10.0759 NP	70.1130	70.1130 NP
1 Entry	21	3/4"	10.0749	10.0749 NP	70.1120	70.1120 NP
2 Entries with dust cover	21	3/4"	10.0789	10.0789 NP	70.1170	70.1170 NP
1 Entry with dust cover	21	3/4"	10.0769	10.0769 NP	70.1160	70.1160 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1112	70.1112 NP	70.1132	70.1132 NP
	29	1"	70.1114	70.1114 NP	70.1134	70.1134 NP
1 Entry	21	3/4"	70.1102	70.1102 NP	70.1122	70.1122 NP
	29	1"	70.1104	70.1104 NP	70.1124	70.1124 NP
2 Entries with dust cover	21	3/4"	70.1152	70.1152 NP	70.1172	70.1172 NP
	29	1"	70.1154	70.1154 NP	70.1174	70.1174 NP
1 Entry with dust cover	21	3/4"	70.1142	70.1142 NP	70.1162	70.1162 NP
	29	1"	70.1144	70.1144 NP	70.1164	70.1164 NP

CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0869	10.0869 NP	70.0930	70.0930 NP
	29	1"	10.0969	10.0969 NP	-	-
High Profile	21	3/4"	70.0922	70.0922 NP	70.0932	70.0932 NP
	29	1"	70.0924	70.0924 NP	70.0934	70.0934 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Base for 4 Power/0 Signal,
4 Power/2 Signal Inserts

HOODS



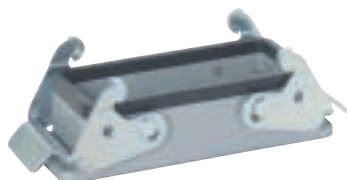
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0800	10.0800 NP	70.1010	70.1010 NP
	29	1"	10.0900	10.0900 NP	-	-
Side Entry	21	3/4"	10.0820	10.0820 NP	70.1030	70.1030 NP
	29	1"	10.0920	10.0920 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1002	70.1002 NP	70.1012	70.1012 NP
	29	1"	70.1004	70.1004 NP	70.1014	70.1014 NP
Side Entry	21	3/4"	70.1022	70.1022 NP	70.1032	70.1032 NP
	29	1"	70.1024	70.1024 NP	70.1034	70.1034 NP

PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0720	70.0825

SURFACE MOUNT BASES



STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.0750	10.0750 NP	70.0880	70.0880 NP
1 Entry	21	3/4"	10.0740	10.0740 NP	70.0870	70.0870 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0862	70.0862 NP	70.0882	70.0882 NP
	29	1"	70.0864	70.0864 NP	70.0884	70.0884 NP
1 Entry	21	3/4"	70.0852	70.0852 NP	70.0872	70.0872 NP
	29	1"	70.0854	70.0854 NP	70.0874	70.0874 NP

CABLE COUPLER HOODS



Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.0860	10.0860 NP	70.0910	70.0910 NP
	29	1"	10.0960	10.0960 NP	-	-
High Profile	21	3/4"	70.0902	70.0902 NP	70.0912	70.0912 NP
	29	1"	70.0904	70.0904 NP	70.0914	70.0914 NP

EPIC® CONNECTORS

HBE 16 Housings: Double Levers on Hood for 4 Power/0 Signal,
4 Power/2 Signal Inserts

HOODS



STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.0810	10.0810 NP	70.1060	70.1060 NP
	29	1"	10.0910	10.0910 NP	-	-
Side Entry	21	3/4"	10.0830	10.0830 NP	70.1080	70.1080 NP
	29	1"	10.0930	10.0930 NP	-	-

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1052	70.1052 NP	70.1062	70.1062 NP
	29	1"	70.1054	70.1054 NP	70.1064	70.1064 NP
Side Entry	21	3/4"	70.1072	70.1072 NP	70.1082	70.1032 NP
	29	1"	70.1074	70.1074 NP	70.1084	70.1034 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.0731	-
With Dust Cover	10.0730	70.0835



SURFACE MOUNT BASES

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.0960	70.0960 NP	70.0980	70.0980 NP
1 Entry	21	3/4"	10.0760	10.0760 NP	70.0970	70.0970 NP
2 Entries with dust cover	21	3/4"	70.0962	70.0962 NP	70.0982	70.0982 NP
	29	1"	70.0964	70.0964 NP	70.0984	70.0984 NP
1 Entry with dust cover	21	3/4"	70.0952	70.0952 NP	70.0972	70.0972 NP
	29	1"	70.0954	70.0954 NP	70.0974	70.0974 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 16 Hoods	10.0886
Dust cover with single lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0887
Dust cover with double levers and gasket for HBE 16 Hoods	10.0885
Dust cover with double lever bolts for HBE 16 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.0870
Dust cover with double lever bolts and gasket for HBE 16 Hoods	10.0871

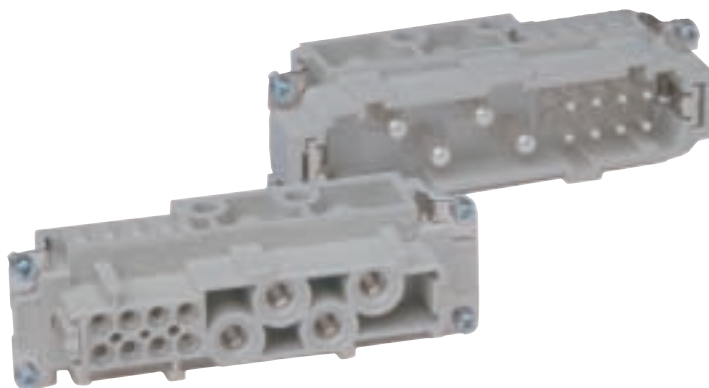


EPIC® CONNECTORS

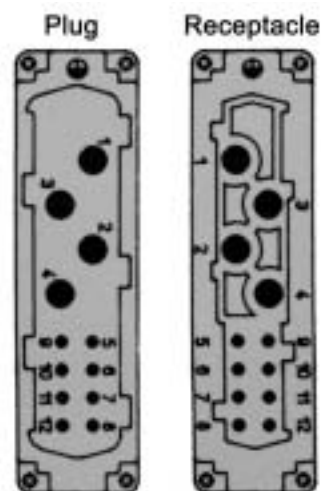
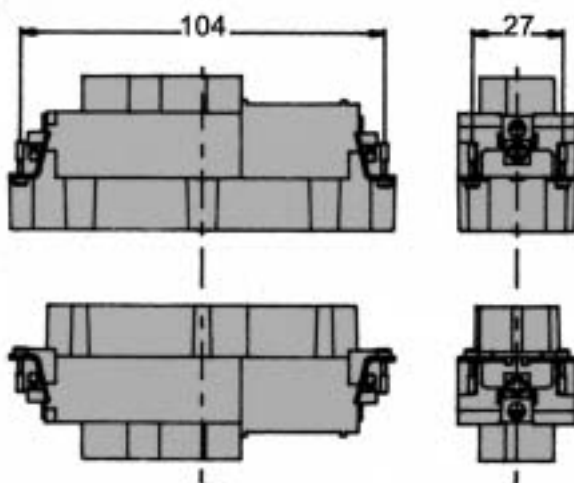
Mixed Power Plugs & Receptacles



4 POWER/ 8 SIGNAL MIXED POWER INSERTS



View from Cable Side



All dimensions are in mm.

Plug	Receptacle
11.2408	11.1408

MATING COMPONENTS

4X8 Plugs & Receptacles fit into EPIC® HBE 24 Housings. A quick reference for the mating components is shown. Diagrams are located in the HBE Section of the catalog (Page 303). Please note that metric parts are available.

EPIC® CONNECTORS

HBE 24 Housings: Single Lever on Base for 4 Power/8 Signal Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1219	10.1219 NP	70.1490	70.1490 NP
	29	1"	10.1119	10.1119 NP	70.1492	70.1492 NP
Side Entry	21	3/4"	10.1139	10.1139 NP	70.1590	70.1590 NP
	29	1"	10.1239	10.1239 NP	70.1592	70.1592 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1444	70.1444 NP	70.1494	70.1494 NP
	29	1"	70.1446	70.1446 NP	70.1496	70.1496 NP
Side Entry	21	3/4"	70.1544	70.1544 NP	70.1594	70.1594 NP
	29	1"	70.1546	70.1546 NP	70.1596	70.1596 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1029	70.1327
With Dust Cover	10.1039	70.1337



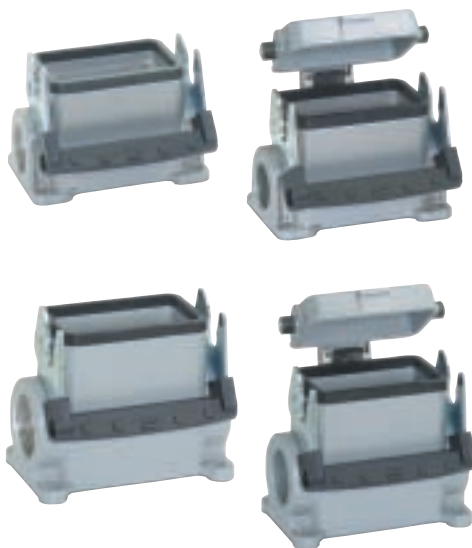
SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1059	10.1059 NP	70.1630	70.1630 NP
1 Entry	21	3/4"	10.1049	10.1049 NP	70.1620	70.1620 NP
2 with cover	21	3/4"	10.1099	10.1099 NP	70.1670	70.1670 NP
1 with cover	21	3/4"	10.1079	10.1079 NP	70.1660	70.1660 NP

HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1612	70.1612 NP	70.1632	70.1632 NP
	29	1"	70.1614	70.1614 NP	70.1634	70.1634 NP
1 Entry	21	3/4"	70.1602	70.1602 NP	70.1622	70.1622 NP
	29	1"	70.1604	70.1604 NP	70.1624	70.1624 NP
2 Entries with dust cover	21	3/4"	70.1652	70.1652 NP	70.1672	70.1672 NP
	29	1"	70.1654	70.1654 NP	70.1674	70.1674 NP
1 Entry with dust cover	21	3/4"	70.1642	70.1642 NP	70.1662	70.1662 NP
	29	1"	70.1644	70.1644 NP	70.1664	70.1664 NP



CABLE COUPLER HOODS

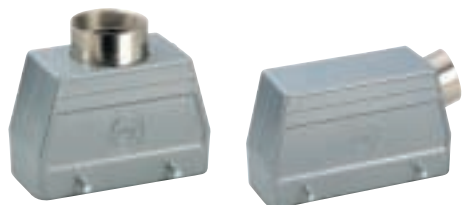
Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1279	10.1279 NP	70.1430	70.1430 NP
	29	1"	10.1179	10.1179 NP	70.1432	70.1432 NP
High Profile	21	3/4"	70.1424	70.1424 NP	70.1434	70.1434 NP
	29	1"	70.1426	70.1426 NP	70.1436	70.1436 NP



EPIC® CONNECTORS

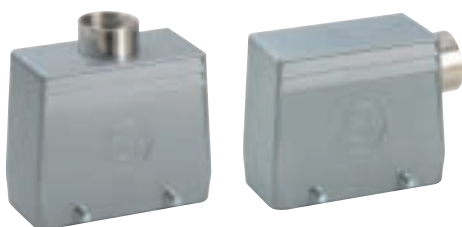
HBE 24 Housings: Double Levers on Base for 4 Power/8 Signal Inserts

HOODS



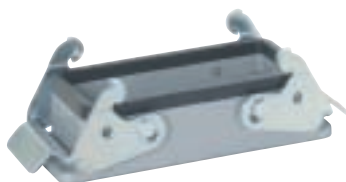
STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1210	10.1210 NP	70.1510	70.1510 NP
	29	1"	10.1110	10.1110 NP	70.1512	70.1512 NP
Side Entry	21	3/4"	10.1130	10.1130 NP	70.1530	70.1530 NP
	29	1"	10.1230	10.1230 NP	70.1532	70.1532 NP



HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1504	70.1504 NP	70.1514	70.1514 NP
	29	1"	70.1506	70.1506 NP	70.1516	70.1516 NP
Side Entry	21	3/4"	70.1524	70.1524 NP	70.1534	70.1534 NP
	29	1"	70.1526	70.1526 NP	70.1536	70.1536 NP



PANEL MOUNT BASES

Description	Standard Grey Coating	Black Coating (EP)
Without Dust Cover	10.1020	70.1325



SURFACE MOUNT BASES

STANDARD PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1050	10.1050 NP	70.1380	70.1380 NP
1 Entry	21	3/4"	10.1040	10.1040 NP	70.1370	70.1370 NP



HIGH PROFILE

# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	70.1362	70.1362 NP	70.1382	70.1382 NP
	29	1"	70.1364	70.1364 NP	70.1384	70.1384 NP
1 Entry	21	3/4"	70.1352	70.1352 NP	70.1372	70.1372 NP
	29	1"	70.1354	70.1354 NP	70.1374	70.1374 NP



CABLE COUPLER HOODS

Profile	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Standard Profile	21	3/4"	10.1270	10.1270 NP	70.1410	70.1410 NP
	29	1"	10.1170	10.1170 NP	70.1412	70.1412 NP
High Profile	21	3/4"	70.1404	70.1404 NP	70.1414	70.1414 NP
	29	1"	70.1406	70.1406 NP	70.1416	70.1416 NP

EPIC® CONNECTORS

HBE 24 Housings: Double Levers on Hood for 4 Power/8 Signal Inserts

HOODS

STANDARD PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	10.1220	10.1220 NP	70.1560	70.1560 NP
	29	1"	10.1120	10.1120 NP	70.1562	70.1562 NP
Side Entry	21	3/4"	10.1140	10.1140 NP	70.1580	70.1580 NP
	29	1"	10.1240	10.1240 NP	70.1582	70.1582 NP

HIGH PROFILE

Position of Cable Entry	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
Top Entry	21	3/4"	70.1554	70.1554 NP	70.1564	70.1564 NP
	29	1"	70.1556	70.1556 NP	70.1566	70.1566 NP
Side Entry	21	3/4"	70.1574	70.1574 NP	70.1584	70.1584 NP
	29	1"	70.1576	70.1576 NP	70.1586	70.1586 NP



PANEL MOUNT BASES



Description	Standard Grey Coating	Black Coating (EP)
With Dust Cover	10.1030	70.1335
Without Dust Cover	10.1031	-

SURFACE MOUNT BASES



# of Entries	Size of Entry		Standard Grey Coating		Black Coating (EP)	
	PG	NPT	PG Part #	NPT Part #	PG Part #	NPT Part #
2 Entries	21	3/4"	10.1090	10.1090 NP	70.1480	70.1480 NP
1 Entry	21	3/4"	10.1070	10.1070 NP	70.1470	70.1470 NP
2 Entries with dust cover	21	3/4"	70.1462	70.1462 NP	70.1482	70.1482 NP
	29	1"	70.1464	70.1464 NP	70.1484	70.1484 NP
1 Entry with dust cover	21	3/4"	70.1452	70.1452 NP	70.1472	70.1472 NP
	29	1"	70.1454	70.1454 NP	70.1474	70.1474 NP

DUST COVERS WITH ATTACHMENT STRING

Material: Thermoplastic Resin

Temperature: -40°C to 125°C

	Part #
Dust cover with single lever for HBE 24 Hoods	10.1186
Dust cover with single lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1187
Dust cover with double levers and gasket for HBE 24 Hoods	10.1195
Dust cover with double lever bolts for HBE 24 Panel Mount or Surface Mount Base/ Cable Coupler Hood	10.1180
Dust cover with double lever bolts and gasket for HBE 24 Hoods	10.1181

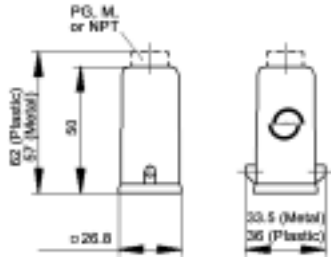


EPIC® CONNECTORS

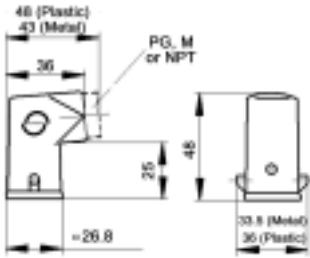
Rectangular Industrial Connectors: Dimensional Data

HA 3/4

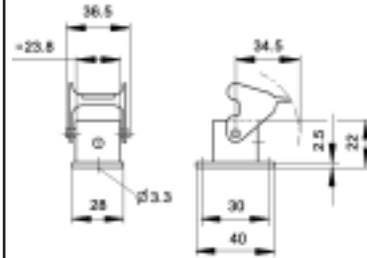
Top Entry Hood with Single Lever Bolts



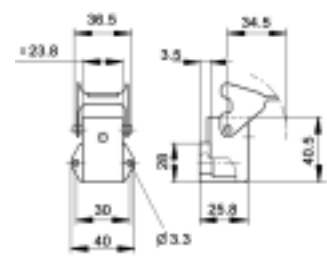
Side Entry Hood with Single Lever Bolts



Panel Mount Base with Single Lever

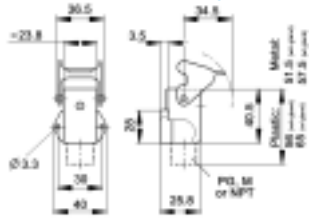


Angled Panel Mount Base with Single Lever

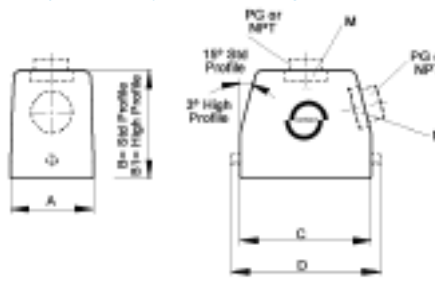


HA 3/4

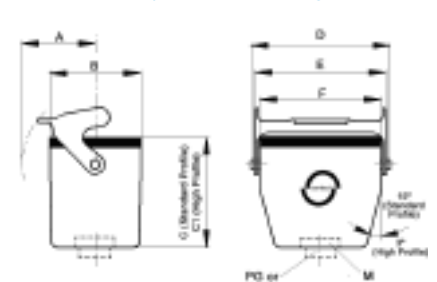
Surface Base with Single Lever



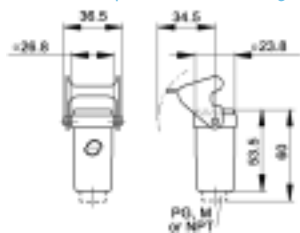
Top/ Side Entry Hood with Single Lever Bolts



Cable Coupler Hood with Single Lever



Cable Coupler Hood with Single Lever

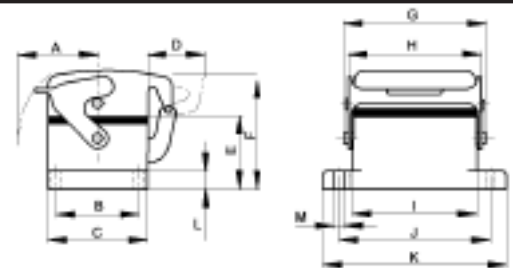


Series	A	B	B1	C	D
HA 10	29.5	53.3	67.3	63	73
HA 16	29.5	58.3	72.3	79	89
HBE 6	43	52	72	60	74.8
HBE 10	43	52	72	73	90
HBE 16	43	61	76	93.3	110
HBE 24	43	61	76	120	137
HBE 48	90	105	-	132	152

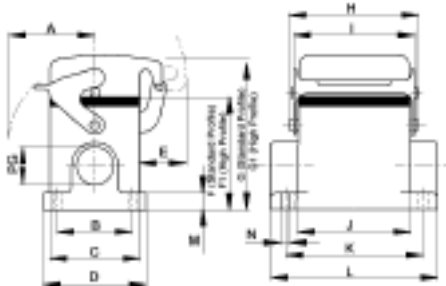
Series	A	B	C	C1	D	E	F
HA 10	36.5	29.5	48	62	74.4	71.4	63
HA 16	36.5	29.5	53	67	90.4	87.8	79
HBE 6	44	43	54.8	74.8	74.8	70	60
HBE 10	50	43	54.8	74.8	91	88.5	73
HBE 16	50	43	63.5	78.8	111	109.5	93.3
HBE 24	50	43	63.8	78.8	138	136.5	120

Panel Mount Base with Single Lever

Series	A	B	C	D	E	F	G	H	I	J	K	L	M
HA 10	36.5	17.5	29.5	25	25	42	74.4	71.4	63	70	81	3.5	3.6
HA 16	36.5	17.5	29.5	25	25	42	90.4	87.5	79	86	96	3.5	3.6
HBE 6	44	32	43	25	27.8	44.8	74.8	70	60	70	80	4	4.3
HBE 10	50	32	43	25	27.8	44.8	91	88.5	73	83	93	4	4.3
HBE 16	50	32	43	25	27.8	44.8	111	109.5	93.3	103	113	4	4.3
HBE 24	50	32	43	25	27.8	44.8	138	136.5	120	130	140	4	4.3
HBE 48	105	70	90	30	39.5	56.5	152	139.5	132	148	165	10	7



Surface Base with Single Lever



Series	A	B	C	D	E	F	F1	G	G1	H	I	J	K	L	M	N
HA 10	36.5	40	29.5	50	25	57	-	74	-	74.4	71.4	63	48	80	3.5	4.5
HA 16	36.5	40	29.5	50	25	57	-	74	-	90.4	87.8	79	64	96	3.5	4.5
HBE 6	44	40	43	52	25	54	74	71	91	74.8	70	60	70	84	4.5/6	5.5
HBE 10	50	40	43	52	25	57	74	74	91	91	88.5	73	82	94	4.5/6	5.5
HBE 16	50	45	43	57	25	64	84	81	101	111	109.5	93	105	117	4.5/6	5.5
HBE 24	50	45	43	57	25	64	84	81	101	138	136.5	120	132	144	4.5/6	5.5
HBE 48	105	106	90	120	30	100	-	117	-	152	139.5	132	111	132	12	6.5

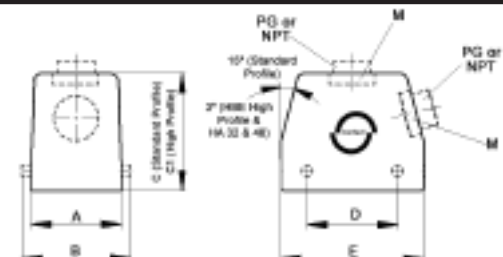
*M dimension (standard profile/high profile)

Notes:

1. All dimensions are in mm.
2. HA 64 & HBE 48 dimensions are the same.

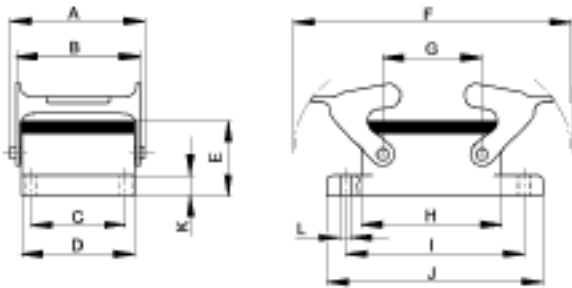
Top/ Side Entry Hood with Double Lever Bolts

Series	A	B	C	C1	D	E
HA 32	56	67.8	75	-	49.6	82
HA 48	79	89.5	95	-	64.5	93.5
HBE 10	43	55	52	72	27	73
HBE 16	43	55	61	76	47.5	93.3
HBE 24	43	55	61	76	74	120
HBE 32	79	89.5	95	-	64.5	93.5



EPIC® CONNECTORS

Rectangular Industrial Connectors: Dimensional Data



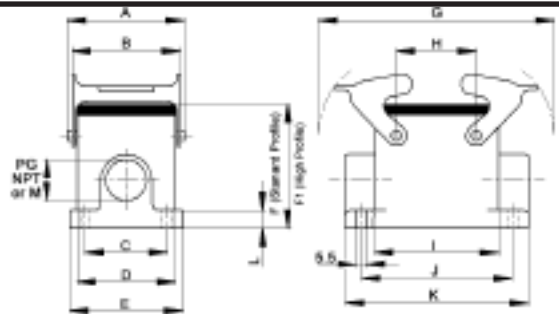
Panel Mount Base with Double Levers

Series	A	B	C	D	E	F	G	H	I	J	K	L
HA 32	67.8	66	42	56	25.4	124.5	49.6	82	92	102	4	4.3
HA 48	93.8	87.8	65	79	30.3	136.5	64.5	93.5	110	124	5	5.5
HBE 10	55	53	32	43	27.8	116	27	73	83	93	4	4.3
HBE 16	55	53	32	43	27.8	136.5	47.5	93.3	103	113	4	4.3
HBE 24	55	53	32	43	27.8	163	74	120	130	140	4	4.3
HBE 32	93.8	87.8	65	79	30.3	136.5	64.5	93.5	110	124	5	5.5

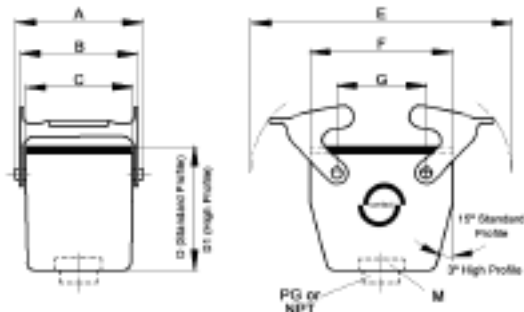
Surface Mount Base with Double Levers

Series	A	B	C	D	E	F	F1	G	H	I	J	K	L
HA 32	67.8	66	46	56	57	75	-	124.5	49.6	82	94	106	4
HA 48	93.8	87.8	67	79	81	72	-	136.5	64.5	82	94	106	5
HBE 10	55	53	40	43	54	57	74	116	27	73	82	94	4.5/6
HBE 16	55	53	45	43	57	64	84	136.5	47.5	93	105	117	4.5/6
HBE 24	55	53	45	43	57	64	84	163	74	120	132	144	4.5/6
HBE 32	93.8	87.8	67	79	81	72	-	136.5	64.5	93.5	112	124.5	5

*L dimension (standard profile/high profile)

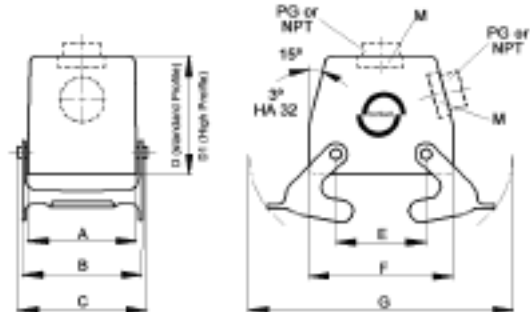


Cable Coupler Hood with Double Levers

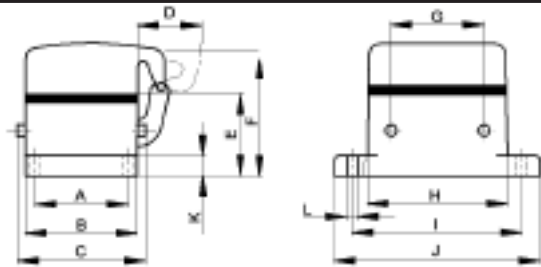


Series	A	B	C	D	D1	E	F	G
HA 32	67.8	66	56	76.5	-	124.5	82	49.6
HBE 10	55	53	43	54.8	74.8	116	73	27
HBE 16	55	53	43	63.6	78.8	136.5	93.3	47.5
HBE 24	55	53	43	63.8	78.8	163	120	74
HBE 32	93.8	87.8	79	97	-	136.5	93.5	64.5

Top/ Side Entry Hood with Double Lever Bolts



Series	A	B	C	D	D1	E	F	G
HA 32	56	66	67.8	75	-	49.6	82	124.5
HBE 10	43	53	55	52	72	27	73	116
HBE 16	43	53	55	61	76	47.5	93.3	136.5
HBE 24	43	53	55	61	76	74	120	163
HBE 32	79	87.8	93.8	95	-	64.5	93.5	136.5



Panel Mount Base with Double Lever Bolts

Series	A	B	C	D	E	F	G	H	I	J	K	L
HA 32	42	56	70.8	29	25.4	42.4	49.6	82	92	102	4	4.3
HBE 10	32	43	55	25	27.8	44.8	27	73	83	93	4	4.3
HBE 16	32	43	55	25	27.8	44.8	47.5	93.3	103	113	4.5/6	5.5
HBE 24	32	43	55	25	27.8	44.8	74	120	130	140	4	4.3
HBE 32	65	79	89.5	-	30.3	-	64.5	93.5	110	124	5	4.3

*K dimension (standard profile/high profile)

Surface Mount Base with Double Lever Bolts

Series	A	B	C	D	E	F	F1	G	G1	H	I	J	K	L
HA 32	70.8	46	56	57	29	75	-	92	-	49.6	82	94	106	4
HBE 10	55	43	40	54	25	57	74	74	91	27	73	82	94	4.5/6
HBE 16	55	45	43	57	25	64	84	81	101	47.5	93*	105	117	4.5/6
HBE 24	55	45	43	57	25	64	84	81	101	74	120	132	144	4.5/6
HBE 32	89.5	67	79	81	-	72	-	-	-	64.5	93.5	112	124.5	5

*L dimension (standard profile/high profile)

** I dimension for HBE 24 High Profile is 93.3.

