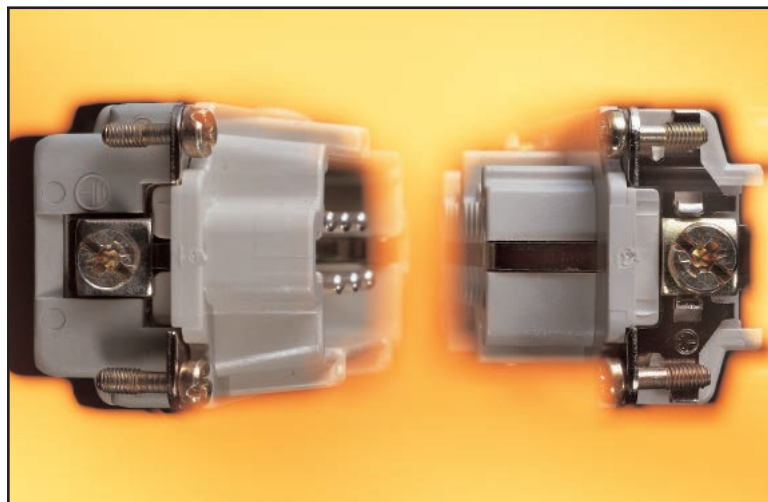


EPIC® Rectangular Connectors

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.



TECHNICAL DATA

Number of Contacts: 6, 10, 16, 24, 32, 48 (+PE)

Screw Termination & Crimp Termination:

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

Rated Current:	VDE: 16A EPIC® HBE 6 - 48	UL: 16A EPIC® HBE 6 - 48
	CSA: 16A EPIC® HBE 6 - 48	

Temperature Range: -40°C to +125°C

Cage Clamp:

Rated Voltage:	VDE: 500V EPIC® HBE 6 - 48	UL: 600V EPIC® HBE 6 - 48
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	CSA: 600V EPIC® HBE 6 - 48	
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Rated Current	VDE: 16A EPIC® HBE 6 - 48	UL: 16A EPIC® HBE 6 - 48
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	CSA: 16A EPIC® HBE 6 - 48	
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Pollution Level: 3

Dimensioning Transient: 6 kV

Termination Type:

	mm ²	AWG
Screw Termination:	0.5 - 2.5 mm ²	20 - 14
Crimp Termination:	0.5 - 4.0 mm ²	20 - 12
Cage Clamp Termination:	0.5 - 2.5 mm ²	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

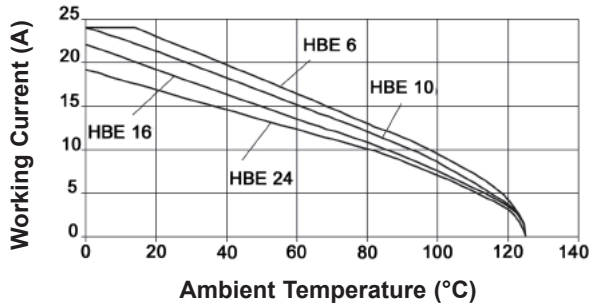
Cage Clamp termination: 1.5 - 4 mOhm

EPIC® Rectangular Connectors

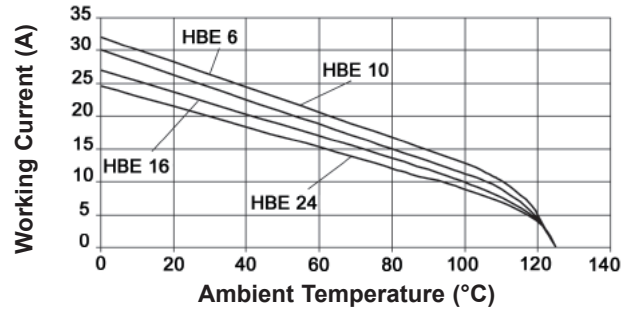
HBE Series

HBE INSERTS: DERATING CURVES

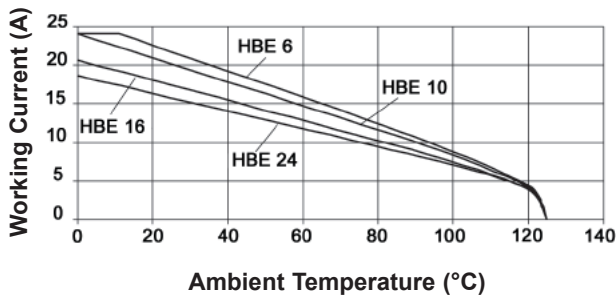
**HBE SCREW TERMINATED:
1.5 mm² (16 AWG)**



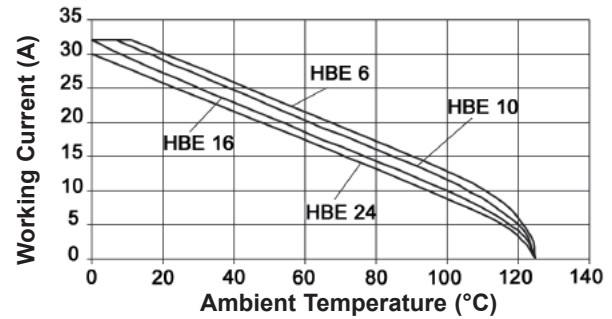
**HBE SCREW TERMINATED:
2.5 mm² (14 AWG)**



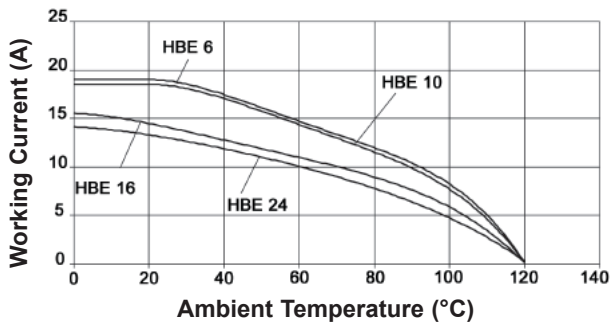
**HBE CRIMP TERMINATED:
1.5 mm² (16 AWG)**



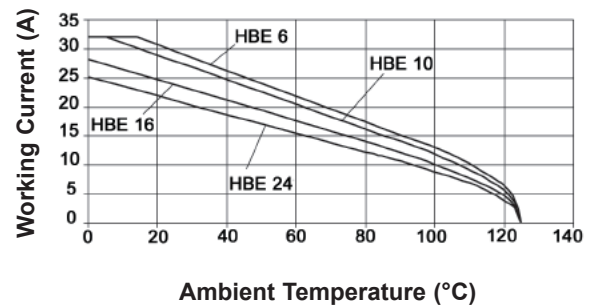
**HBE CRIMP TERMINATED:
2.5 mm² (14 AWG)**



**HBE CAGE CLAMP:
1.5 mm² (16 AWG)**



**HBE CAGE CLAMP:
2.5 mm² (14 AWG)**



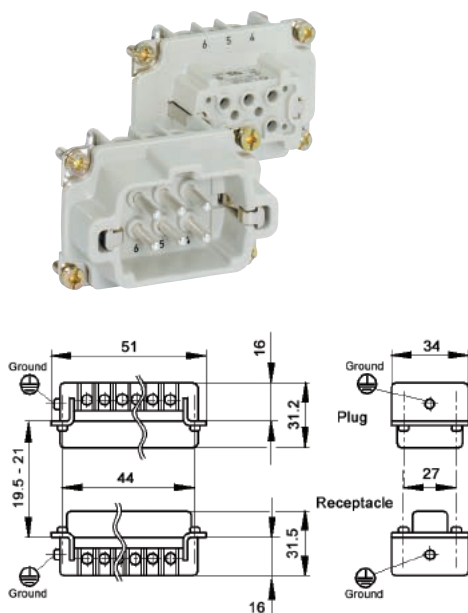
EPIC® Rectangular Connectors

HBE 6 Plugs & Receptacles

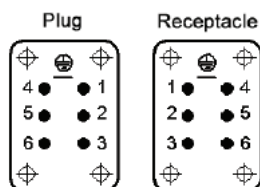


HBE 6 SCREW & CRIMP TERMINATED INSERTS

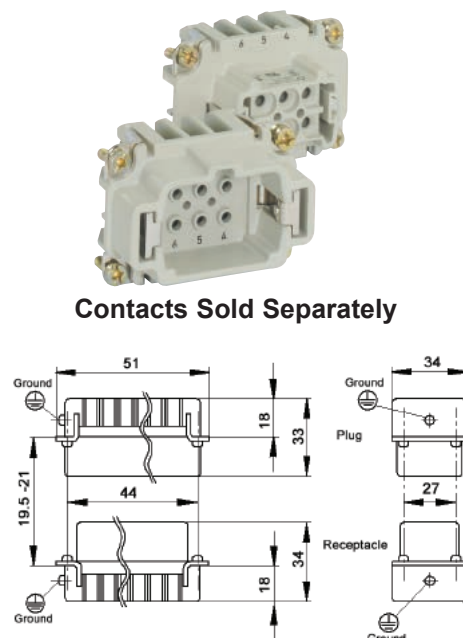
SCREW TERMINATED



View from Cable Side



CRIMP TERMINATED



Contacts Sold Separately

All dimensions are in mm.

Description	Plug	Receptacle
Screw Terminated with wire protection	10190000	10191000
Screw Terminated without wire protection	10190100	10191100
Crimp Terminated: Machine	10180000	10181000



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	11190000	11195000	11192000	11197000	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11190100	11195100	11192100	11197100	Pin=7.4, Socket =7.3	1
1.5	16	11190200	11195200	11192200	11197200	Pin=7.4, Socket =7.3	2
2.5	14	11190300	11195300	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11190400	11195400	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact



Crimp Tool
11147000



Crimp Dies
11147100

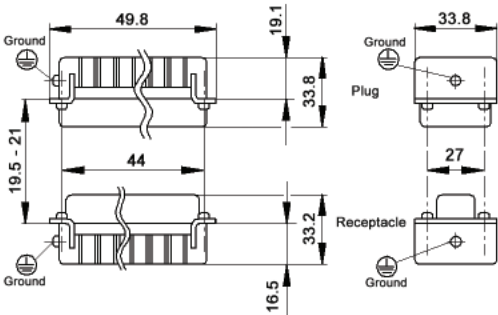


Locator
11147200

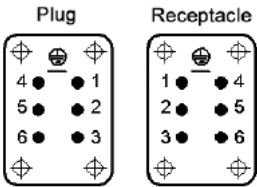
For removal of contacts use a slotted screwdriver.
No special tool is necessary.

Please note that the crimp range for this tool is 0.14 to 4.0 mm²
(AWG 26 - 12) with the appropriate crimp dies.

HBE 6 SCREWLESS SPRING CAGE CLAMP INSERTS



View from Cable Side



All dimensions are in mm.

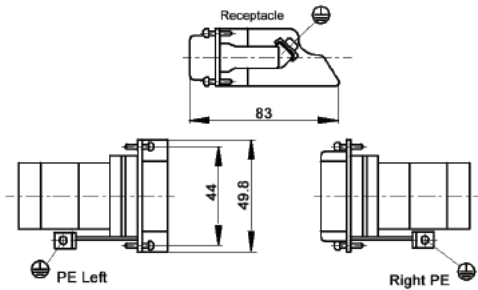
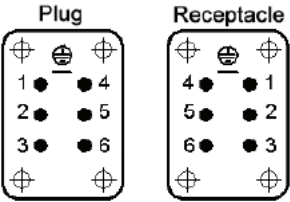


Description	Plug	Receptacle
Screwless Cage Clamp	10400000	10401000

SCREW TERMINATED TERMINAL BLOCK INSERTS



View from Cable Side



All dimensions are in mm.



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

Description	Receptacle
Terminal Block: Right Ground	70311100
Terminal Block: Left Ground	70310100

One terminal block insert mates with one screw terminated insert.

EPIC® Rectangular Connectors

HBE 10 Plugs & Receptacles

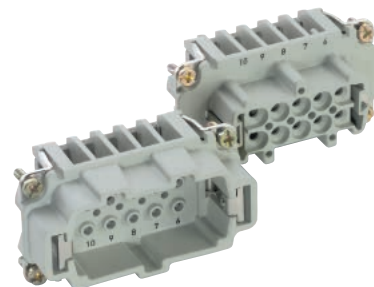
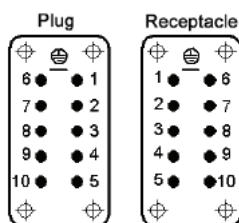


HBE 10 SCREW & CRIMP TERMINATED INSERTS

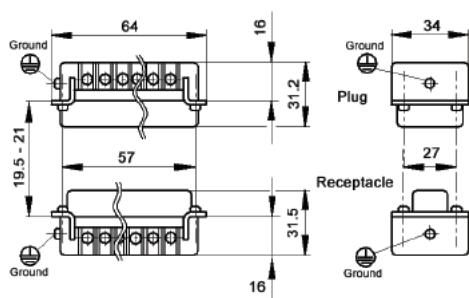
SCREW TERMINATED

View from Cable Side

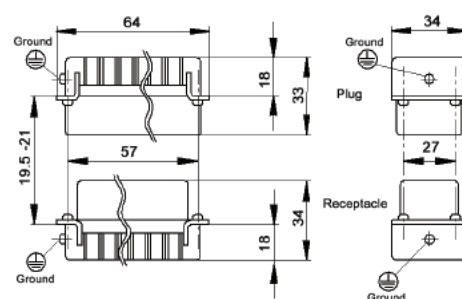
CRIMP TERMINATED



Contacts Sold Separately



All dimensions are in mm.



Description	Plug	Receptacle
Screw Terminated with wire protection	10192000	10193000
Screw Terminated without wire protection	10192100	10193100
Crimp Terminated: Machine	10182000	10183000



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	11190000	11195000	11192000	11197000	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11190100	11195100	11192100	11197100	Pin=7.4, Socket =7.3	1
1.5	16	11190200	11195200	11192200	11197200	Pin=7.4, Socket =7.3	2
2.5	14	11190300	11195300	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11190400	11195400	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact



Crimp Tool
11147000



Crimp Dies
11147100

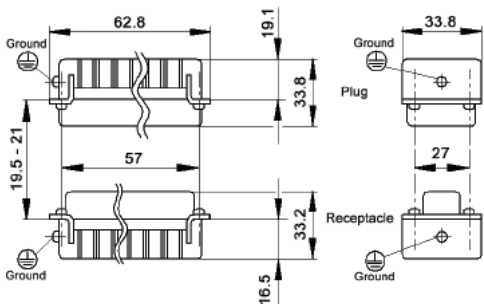


Locator
11147200

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 4.0 mm² (AWG 26 - 12) with the appropriate crimp dies.

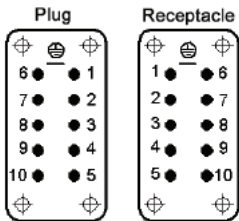
HBE 10 SCREWLESS SPRING CAGE CLAMP INSERTS



All dimensions are in mm.



View from Cable Side

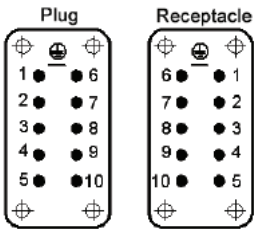


HBE 10
Pg 356

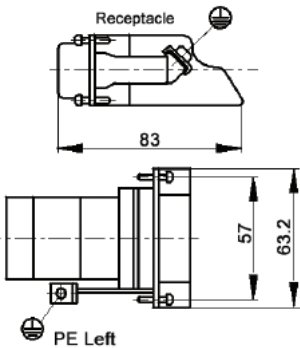
Description	Plug	Receptacle
Screwless Cage Clamp	10400100	10401100

HBE 10 SCREW TERMINATED TERMINAL BLOCK INSERTS

View from Cable Side



All dimensions are in mm.



HBE 10
Pg 357

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

One terminal block insert mates with one screw terminated insert.

Description	Receptacle
Terminal Block: Left Ground	70312100

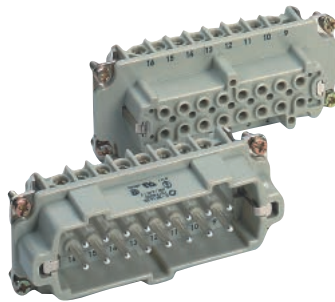
EPIC® Rectangular Connectors

HBE 16 Plugs & Receptacles

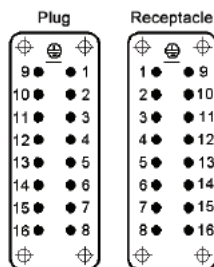


HBE 16 SCREW & CRIMP TERMINATED INSERTS

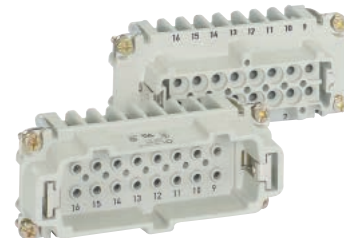
SCREW TERMINATED



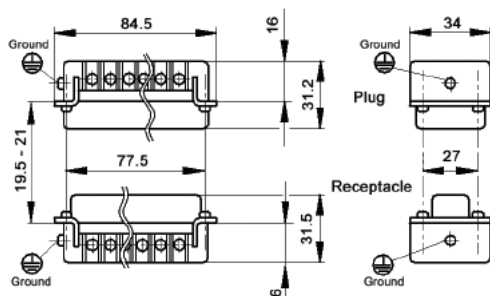
View from Cable Side



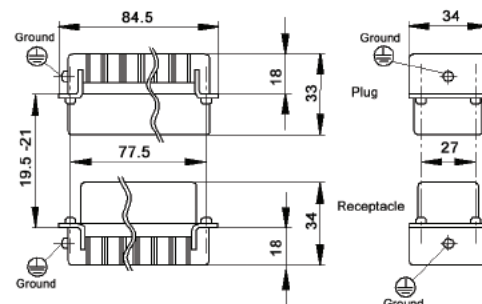
CRIMP TERMINATED



Contacts Sold Separately



All dimensions are in mm.



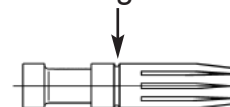
Description	Plug	Receptacle
Screw Terminated with wire protection	10194000	10195000
Screw Terminated without wire protection	10194100	10195100
Crimp Terminated: Machine	10184000	10185000



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	11190000	11195000	11192000	11197000	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11190100	11195100	11192100	11197100	Pin=7.4, Socket =7.3	1
1.5	16	11190200	11195200	11192200	11197200	Pin=7.4, Socket =7.3	2
2.5	14	11190300	11195300	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11190400	11195400	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact



Crimp Tool
11147000



Crimp Dies
11147100

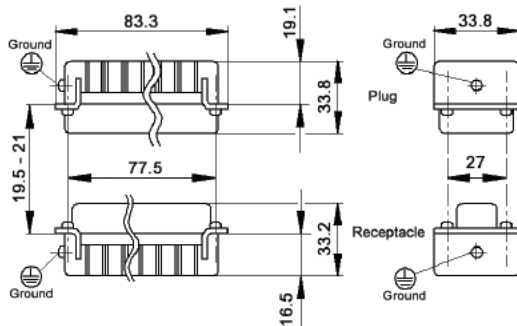


Locator
11147200

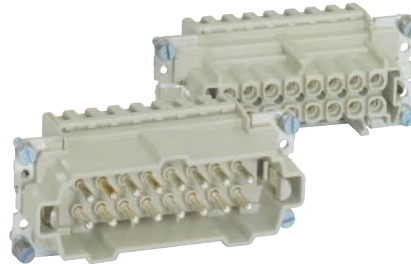
For removal of contacts use a slotted screwdriver.
No special tool is necessary.

Please note that the crimp range for this tool is 0.14 to 4.0 mm²
(AWG 26 - 12) with the appropriate crimp dies.

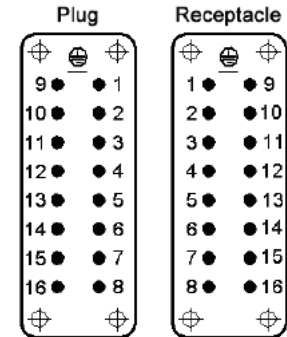
HBE 16 SCREWLESS SPRING CAGE CLAMP INSERTS



All dimensions are in mm.



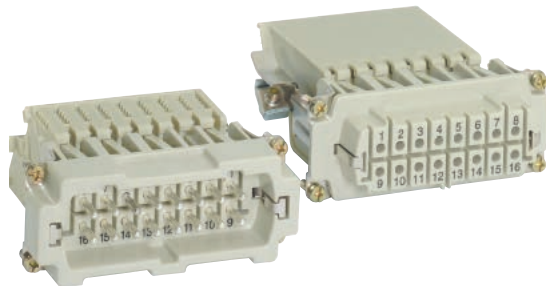
View from Cable Side



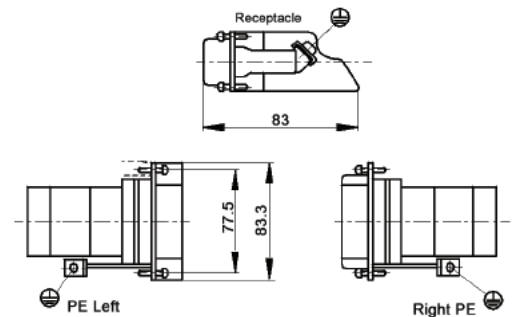
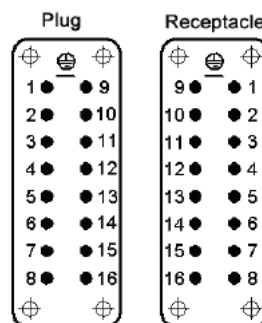
Description	Plug	Receptacle
Screwless Cage Clamp	10400200	10401200



HBE 16 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

One terminal block insert mates with one screw terminated insert.

Description	Receptacle
Terminal Block: Right Ground	70315100
Terminal Block: Left Ground	70314100

EPIC® Rectangular Connectors

HBE 24 Plugs & Receptacles

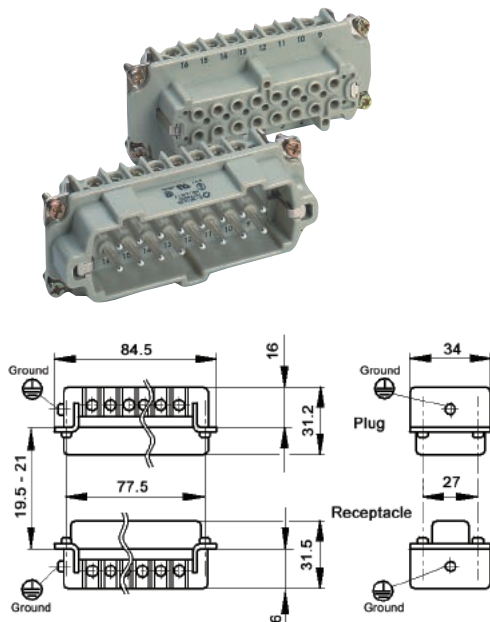


HBE 24 SCREW & CRIMP TERMINATED INSERTS

SCREW TERMINATED

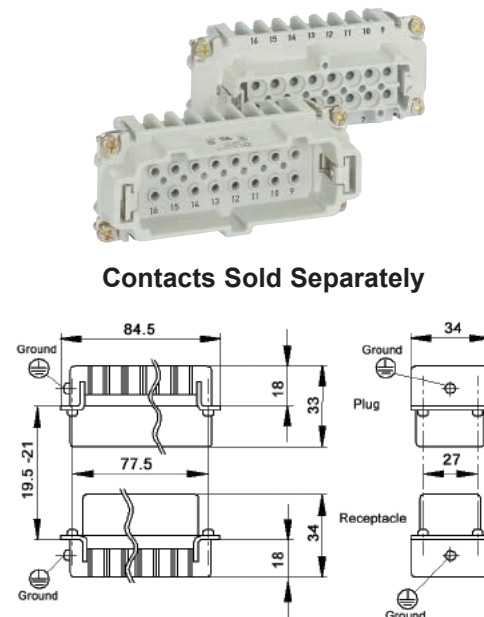
View from Cable Side

CRIMP TERMINATED



Plug		Receptacle	
1	13	13	1
2	14	14	2
3	15	15	3
4	16	16	4
5	17	17	5
6	18	18	6
7	19	19	7
8	20	20	8
9	21	21	9
10	22	22	10
11	23	23	11
12	24	24	12

All dimensions are in mm.



Contacts Sold Separately

Description	Plug	Receptacle
Screw Terminated with wire protection	10196000	10197000
Screw Terminated without wire protection	10196100	10197100
Crimp Terminated: Machine	10186000	10187000



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	11190000	11195000	11192000	11197000	Pin=7.4, Socket =7.3	-
.75 - 1.0	18	11190100	11195100	11192100	11197100	Pin=7.4, Socket =7.3	1
1.5	16	11190200	11195200	11192200	11197200	Pin=7.4, Socket =7.3	2
2.5	14	11190300	11195300	-	-	Pin=7.4, Socket =7.3	3
4.0	12	11190400	11195400	-	-	Pin=7.4, Socket =7.3	-

Part number= 1 contact



Crimp Tool
11147000



Crimp Dies
11147100

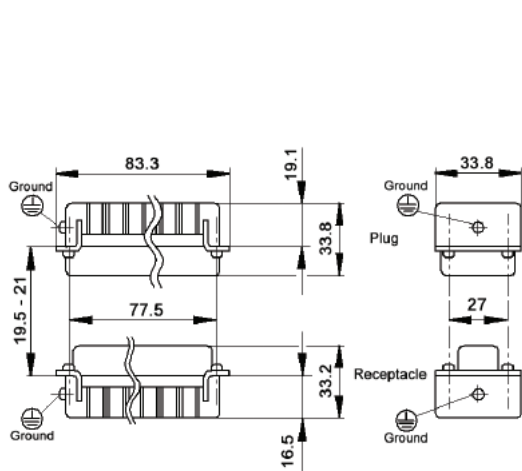


Locator
11147200

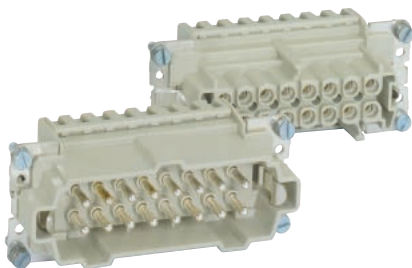
For removal of contacts use a slotted screwdriver.
No special tool is necessary.

Please note that the crimp range for this tool is 0.14 to 4.0 mm² (AWG 26 - 12) with the appropriate crimp dies.

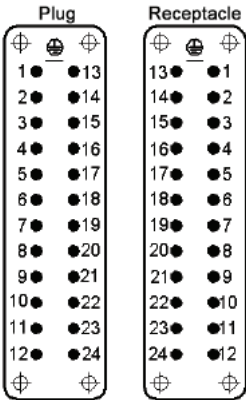
HBE 24 SCREWLESS SPRING CAGE CLAMP INSERTS



All dimensions are in mm.



View from Cable Side

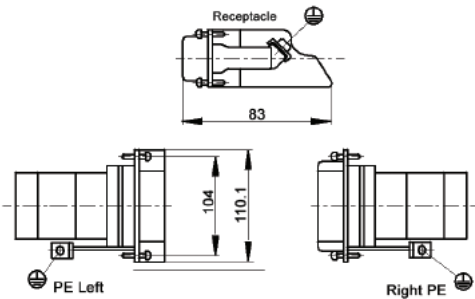
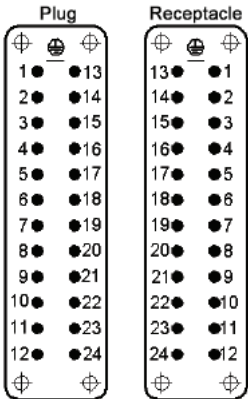
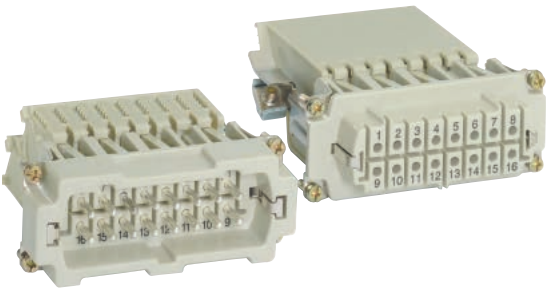


Description	Plug	Receptacle
Screwless Cage Clamp	10400300	10401300



HBE 24 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

Description	Receptacle
Terminal Block: Right Ground	70317100
Terminal Block: Left Ground	70316100

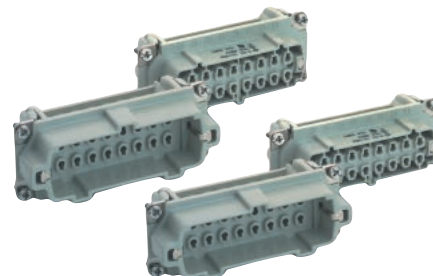
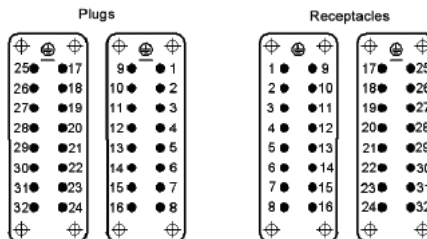
One terminal block insert mates with one screw terminated insert.

HBE 32 SCREW & CRIMP TERMINATED INSERTS

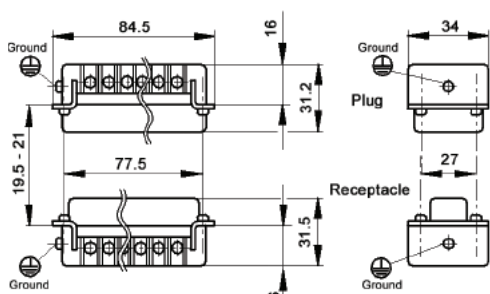
SCREW TERMINATED

View from Cable Side

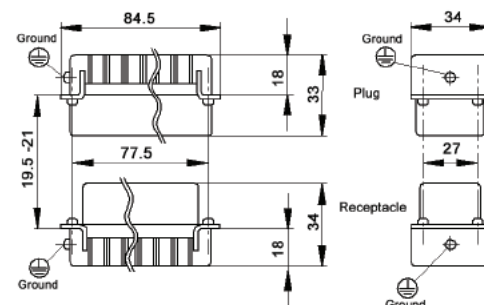
CRIMP TERMINATED



Contacts Sold Separately



All dimensions are in mm.

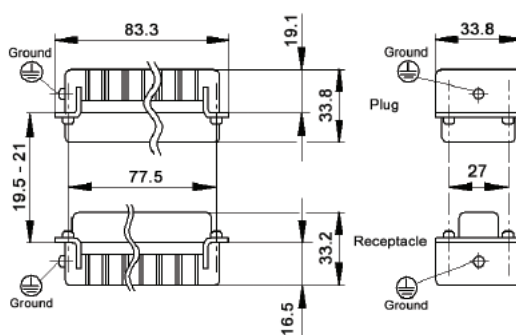
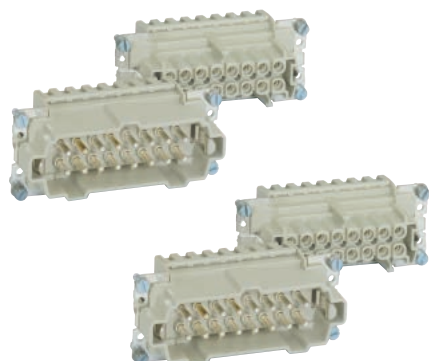


HBE 32
Pg 374

Crimp Contacts
Page 271

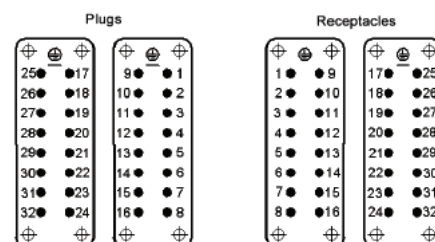
Description	Plug	Receptacle
Screw Terminated with wire protection (#1-16)	10194000	10195000
Screw Terminated with wire protection (#17-32)	10202000	10203000
Screw Terminated without wire protection (#1-16)	10194100	10195100
Screw Terminated without wire protection (#17-32)	10202100	10203100
Crimp Terminated: Machine (#1-16)	10184000	10185000
Crimp Terminated: Machine (#17-32)	10184200	10185200

HBE 32 SCREWLESS SPRING CAGE CLAMP INSERTS



All dimensions are in mm.

View from Cable Side



Description	Plug	Receptacle
Screwless Cage Clamp (#1-16)	10400200	10401200
Screwless Cage Clamp (#17-32)	10400400	10401400



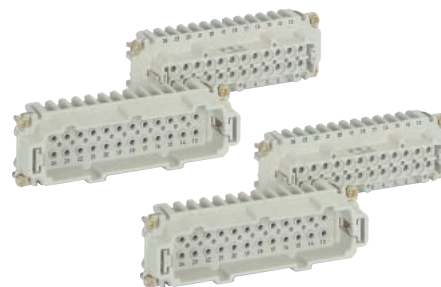
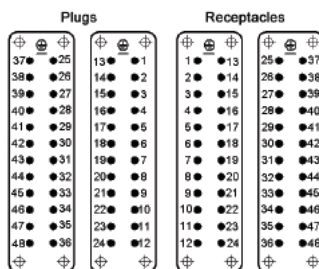
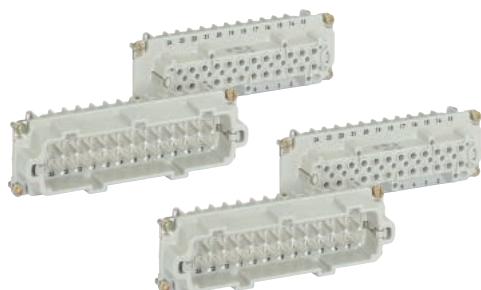
HBE 32
Pg 374

HBE 48 SCREW & CRIMP TERMINATED INSERTS

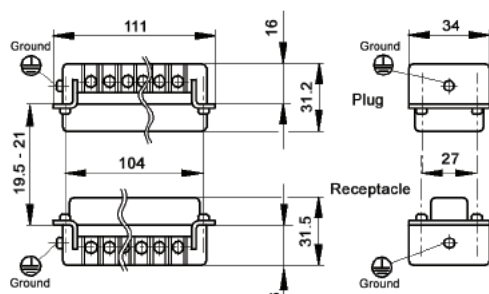
SCREW TERMINATED

View from Cable Side

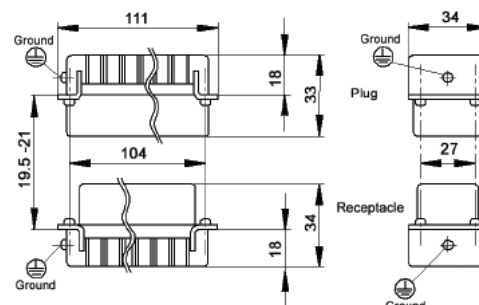
CRIMP TERMINATED



Contacts Sold Separately



All dimensions are in mm.

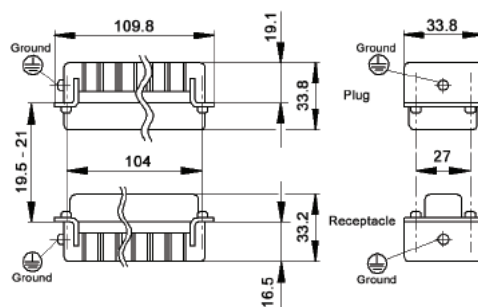
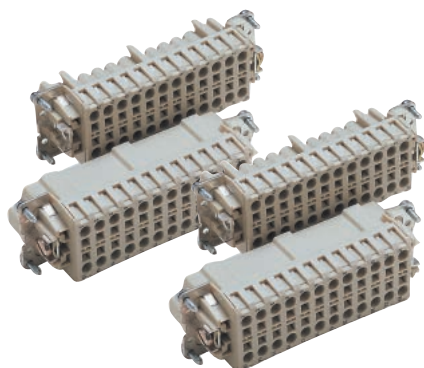


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Description	Plug	Receptacle
Screw Terminated with wire protection (#1-24)	10196000	10197000
Screw Terminated with wire protection (#25-48)	10204000	10205000
Screw Terminated without wire protection (#1-24)	10196100	10197100
Screw Terminated without wire protection (#25-48)	10204100	10205100
Crimp Terminated: Machine (#1-24)	10186000	10187000
Crimp Terminated: Machine (#25-48)	10186200	10187200

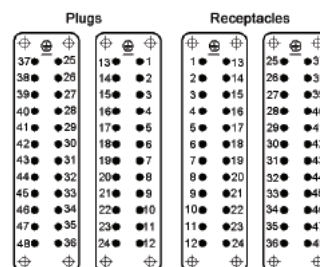
Crimp
Contacts
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SCREWLESS SPRING CAGE CLAMP INSERTS



All dimensions are in mm.

View from Cable Side



Description	Plug	Receptacle
Screwless Cage Clamp (#1-24)	10400300	10401300
Screwless Cage Clamp (#25-48)	10400500	10401500



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