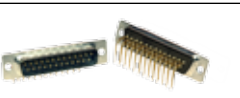
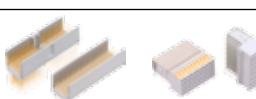
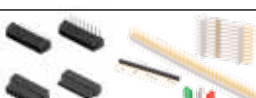
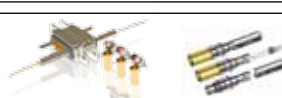




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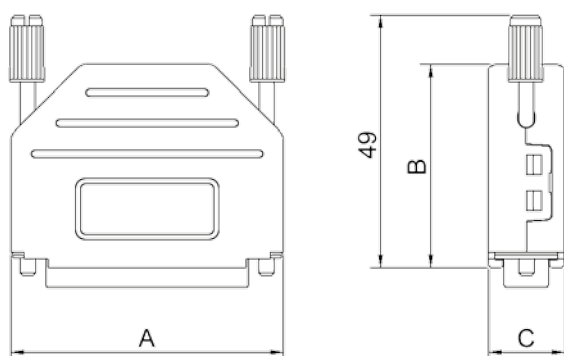
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TECHNICAL SPECIFICATIONS

Material:	Polyamid, UL-recognised
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11,5mm
Accessories:	See page 190-194
Assembly Instruction:	See page 196



Size	Dim A	Dim B	Dim C
9-way	31,5	34,0	15,0
15-way	40,0	34,0	15,0
25-way	53,5	34,0	15,0
37-way	70,0	40,0	15,0
50-way	67,5	40,0	15,0

Features:

- Available in sizes 9-15-25-37-50-way
- Suitable for any common Sub-D connector
- Quick-snap locking system
- Standard Colour Black, other colour on request
- Company logo can be moulded on request

Ordering information: *Standard - Black*

Size:	P/N - Kitted:	Product Code:
9-way	6260-0101-01	DPPK09-BK-K
15-way	6260-0101-02	DPPK15-BK-K
25-way	6260-0101-03	DPPK25-BK-K
37-way	6260-0101-04	DPPK37-BK-K
50-way	6260-0101-05	DPPK50-BK-K

Size:	P/N - BULK:	Product Code:
9-way	6261-0101-01	DPPK09-BK
15-way	6261-0101-02	DPPK15-BK
25-way	6261-0101-03	DPPK25-BK
37-way	6261-0101-04	DPPK37-BK
50-way	6261-0101-05	DPPK50-BK

Ordering information:



Light Grey

Size:	P/N - Kitted:	Product Code:
9-way	6353-0101-01	DPPK09-LG-K
15-way	6353-0101-02	DPPK15-LG-K
25-way	6353-0101-03	DPPK25-LG-K
37-way	6353-0101-04	DPPK37-LG-K
50-way	6353-0101-05	DPPK50-LG-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0101-01	DPPK09-LG
15-way	6354-0101-02	DPPK15-LG
25-way	6354-0101-03	DPPK25-LG
37-way	6354-0101-04	DPPK37-LG
50-way	6354-0101-05	DPPK50-LG



DEC Grey

Size:	P/N - Kitted:	Product Code:
9-way	6353-0102-01	DPPK09-DEC-K
15-way	6353-0102-02	DPPK15-DEC-K
25-way	6353-0102-03	DPPK25-DEC-K
37-way	6353-0102-04	DPPK37-DEC-K
50-way	6353-0102-05	DPPK50-DEC-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0102-01	DPPK09-DEC
15-way	6354-0102-02	DPPK15-DEC
25-way	6354-0102-03	DPPK25-DEC
37-way	6354-0102-04	DPPK37-DEC
50-way	6354-0102-05	DPPK50-DEC



Red

Size:	P/N - Kitted:	Product Code:
9-way	6353-0103-01	DPPK09-R-K
15-way	6353-0103-02	DPPK15-R-K
25-way	6353-0103-03	DPPK25-R-K
37-way	6353-0103-04	DPPK37-R-K
50-way	6353-0103-05	DPPK50-R-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0103-01	DPPK09-R
15-way	6354-0103-02	DPPK15-R
25-way	6354-0103-03	DPPK25-R
37-way	6354-0103-04	DPPK37-R
50-way	6354-0103-05	DPPK50-R



Blue

Size:	P/N - Kitted:	Product Code:
9-way	6353-0104-01	DPPK09-B-K
15-way	6353-0104-02	DPPK15-B-K
25-way	6353-0104-03	DPPK25-B-K
37-way	6353-0104-04	DPPK37-B-K
50-way	6353-0104-05	DPPK50-B-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0104-01	DPPK09-B
15-way	6354-0104-02	DPPK15-B
25-way	6354-0104-03	DPPK25-B
37-way	6354-0104-04	DPPK37-B
50-way	6354-0104-05	DPPK50-B



Yellow

Size:	P/N - Kitted:	Product Code:
9-way	6353-0105-01	DPPK09-Y-K
15-way	6353-0105-02	DPPK15-Y-K
25-way	6353-0105-03	DPPK25-Y-K
37-way	6353-0105-04	DPPK37-Y-K
50-way	6353-0105-05	DPPK50-Y-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0105-01	DPPK09-Y
15-way	6354-0105-02	DPPK15-Y
25-way	6354-0105-03	DPPK25-Y
37-way	6354-0105-04	DPPK37-Y
50-way	6354-0105-05	DPPK50-Y



Green

Size:	P/N - Kitted:	Product Code:
9-way	6353-0106-01	DPPK09-G-K
15-way	6353-0106-02	DPPK15-G-K
25-way	6353-0106-03	DPPK25-G-K
37-way	6353-0106-04	DPPK37-G-K
50-way	6353-0106-05	DPPK50-G-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0106-01	DPPK09-G
15-way	6354-0106-02	DPPK15-G
25-way	6354-0106-03	DPPK25-G
37-way	6354-0106-04	DPPK37-G
50-way	6354-0106-05	DPPK50-G



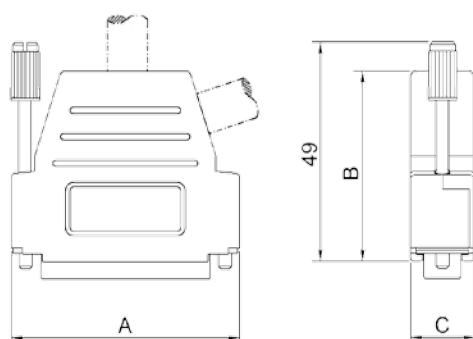
White

Size:	P/N - Kitted:	Product Code:
9-way	6353-0107-01	DPPK09-W-K
15-way	6353-0107-02	DPPK15-W-K
25-way	6353-0107-03	DPPK25-W-K
37-way	6353-0107-04	DPPK37-W-K
50-way	6353-0107-05	DPPK50-W-K

Size:	P/N - BULK:	Product Code:
9-way	6354-0107-01	DPPK09-W
15-way	6354-0107-02	DPPK15-W
25-way	6354-0107-03	DPPK25-W
37-way	6354-0107-04	DPPK37-W
50-way	6354-0107-05	DPPK50-W

TECHNICAL SPECIFICATIONS

Material:	Polyamid, UL-recognised
Operating Temperature:	-55°C to +110°C
Cable Entry:	Side and Top (L) Side Only (S) Top Only (T)
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11,5mm
Colour:	Black
Accessories:	See page 190-194
Assembly Instruction:	See page 198



Size DSSK-T/P	Dim A	Dim B	Dim B
9-way	31,5	40,0	43,0*
15-way	40,0	40,0	-
25-way	53,5	43,0	-
37-way	71,3	40,0	-

* Top only

Features:

- Available in sizes 9-15-25-37
- Suitable for any common Sub-D connector
- Quick-snap locking system
- Re-openable
- Company logo available upon request
- Also available in Metalized Version, See page 17

Ordering information:

Size:	P/N - Kitted:	Product Code:	L
9-way	6260-0107-01	DSSK-P-09-L-K	
15-way	6260-0107-02	DSSK-P-15-L-K	
25-way	6260-0107-03	DSSK-P-25-L-K	

Size:	P/N - Kitted:	Product Code:	S
9-way	6260-0107-11	DSSK-P-09-S-K	
15-way	6260-0107-12	DSSK-P-15-S-K	
25-way	6260-0107-13	DSSK-P-25-S-K	
37-way	6260-0107-14	DSSK-P-37-S-K	

Size:	P/N - Kitted:	Product Code:	T
9-way	6260-0107-21	DSSK-P-09-T-K	
15-way	6260-0107-22	DSSK-P-15-T-K	
25-way	6260-0107-23	DSSK-P-25-T-K	

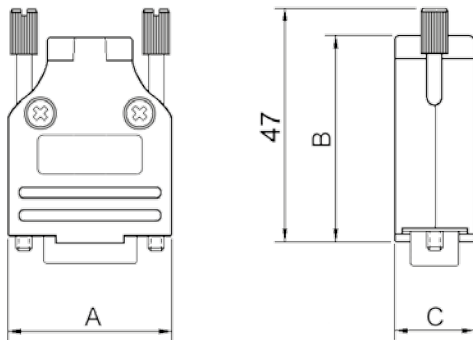
Size:	P/N - BULK:	Product Code:	L
9-way	6261-0107-01	DSSK-P-09-L	
15-way	6261-0107-02	DSSK-P-15-L	
25-way	6261-0107-03	DSSK-P-25-L	

Size:	P/N - BULK:	Product Code:	S
9-way	6261-0107-11	DSSK-P-09-S	
15-way	6261-0107-12	DSSK-P-15-S	
25-way	6261-0107-13	DSSK-P-25-S	
37-way	6261-0107-14	DSSK-P-37-S	

Size:	P/N - BULK:	Product Code:	T
9-way	6261-0107-21	DSSK-P-09-T	
15-way	6261-0107-22	DSSK-P-15-T	
25-way	6261-0107-23	DSSK-P-25-T	

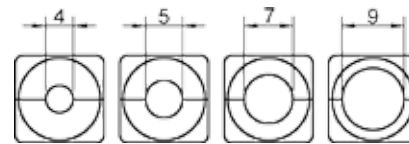
TECHNICAL SPECIFICATIONS

Material:	UL 94 V-0 Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Colour:	Black
Accessories:	See page 190-194
Assembly Instruction:	See page 197



Size MHDTPPK	Dim A	Dim B	Dim C
9-way	31,2	39,9	15,0
15-way	39,5	41,5	15,0
25-way	53,4	48,6	15,0
37-way	69,7	53,6	15,0

Grommet Sizes MHDTPPK 9-37:



Features:

- Available in sizes 9-15-25-37
- Suitable for any common Sub-D connector
- Strain relief inserts ensure a secure termination
- Re-openable
- Also available in Metalized Version, See page 18

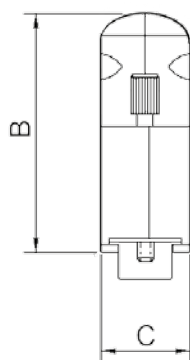
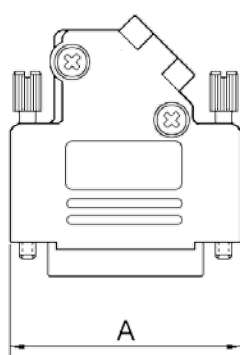
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0108-01	DTPPK-9-BK-K
15-way	6560-0108-02	DTPPK-15-BK-K
25-way	6560-0108-03	DTPPK-25-BK-K
37-way	6560-0108-04	DTPPK-37-BK-K

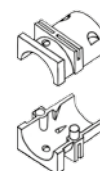
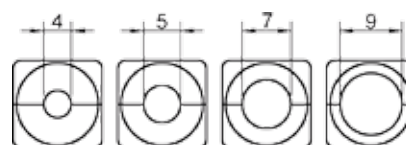
Size:	P/N - BULK:	Product Code:
9-way	6561-0108-01	DTPPK-9-BK
15-way	6561-0108-02	DTPPK-15-BK
25-way	6561-0108-03	DTPPK-25-BK
37-way	6561-0108-04	DTPPK-37-BK

TECHNICAL SPECIFICATIONS

Material:	UL 94 V-0 Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Side
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Colour:	Black
Accessories:	See page 190-194
Assembly Instruction:	See page 197



Grommet Sizes MHD45PPK 9-37:



Size MHD45PPK	Dim A	Dim B	Dim C
9-way	31,0	36,3	15,0
15-way	39,5	40,3	15,0
25-way	53,2	40,3	15,0
37-way	69,7	40,3	15,0

Features:

- Available in sizes 9-15-25-37
- Suitable for any common Sub-D connector
- Strain relief inserts ensure a secure termination
- Re-openable
- Also available in Metalized Version, See page 19

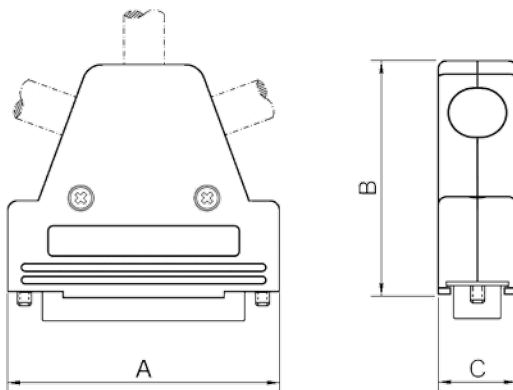
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0107-11	D45PPK-9-BK-K
15-way	6560-0107-12	D45PPK-15-BK-K
25-way	6560-0107-13	D45PPK-25-BK-K
37-way	6560-0107-14	D45PPK-37-BK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0107-11	D45PPK-9-BK
15-way	6561-0107-12	D45PPK-15-BK
25-way	6561-0107-13	D45PPK-25-BK
37-way	6561-0107-14	D45PPK-37-BK

TECHNICAL SPECIFICATIONS

Material:	UL 94 V-0 Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Side / Top / Side
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11,5mm
Colour:	Black



Size MHTRI-P	Dim A	Dim B	Dim C
9-way	31,0	45,2	15,0
15-way	40,3	45,2	15,0
25-way	53,5	45,2	15,0
37-way	70,0	45,2	15,0

Features:

- Available in sizes 9-15-25-37
- All sizes feature 3-Way Entry solution
- Re-openable
- Hood is supplied with 2 Blanking Plates and 2 Strain Relief Clamps. Extra Blanking Plates and/or Strain Reliefs are available on request.
- Also available in Metalized Version, See page 20

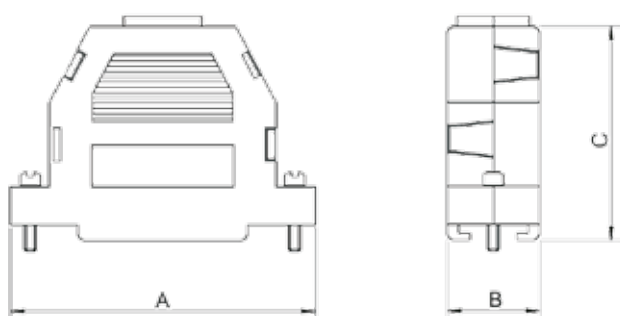
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6550-0101-01	TRI-P-09-K
15-way	6550-0101-02	TRI-P-15-K
25-way	6550-0101-03	TRI-P-25-K
37-way	6550-0101-04	TRI-P-37-K

Size:	P/N - BULK:	Product Code:
9-way	On Request	
15-way	On Request	
25-way	On Request	
37-way	On Request	

TECHNICAL SPECIFICATIONS SN-Series

Material:	UL Recognised Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top
Thumbscrews:	UNC 4-40
Cable O.D:	Up to 11,5mm
Colour:	Black or Light Grey



Size	A	B	C
9-way	30,5	15,5	39,2
15-way	40,1	15,5	39,6
25-way	53,6	16,0	43,0

Ordering information:

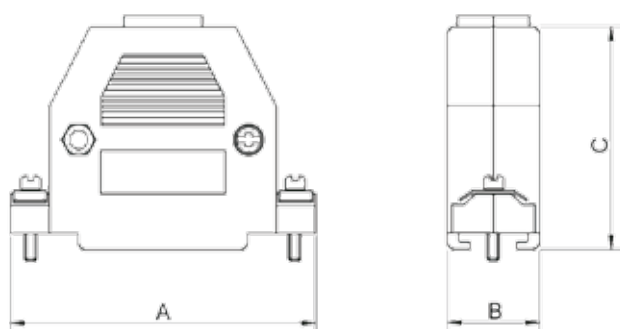
Size:	P/N - Kitted:	Product Code BLACK:
9-way	2360-0101-01	CCOV 9-SN-BK
15-way	2360-0101-02	CCOV15-SN-BK
25-way	2360-0101-03	CCOV25-SN-BK

Size:	P/N - Kitted:	Product Code LIGHT GREY
9-way	2360-0101-11	CCOV 9-SN-LG
15-way	2360-0101-12	CCOV15-SN-LG
25-way	2360-0101-13	CCOV25-SN-LG

TECHNICAL SPECIFICATIONS SC-Series

Material:	UL Recognised Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top
Thumbscrews:	UNC 4-40
Cable O.D:	Up to 11,5mm
Colour:	Black or Light Grey

Also available in Shielded version, See page 23



Size	A	B	C
9-way	31,0	16,0	40,2
15-way	39,6	17,4	38,0
25-way	55,0	16,5	44,5
37-way	69,0	24,0	52,5
50-way	69,5	19,5	44,5

Ordering information - SHORT Jackscrews:

Size:	P/N - Kitted:	Product Code BLACK:
9-way	2360-0102-01	CCOV 9-SC-BK
15-way	2360-0102-02	CCOV15-SC-BK
25-way	2360-0102-03	CCOV25-SC-BK
37-way	2360-0102-04	CCOV37-SC-BK
50-way	2360-0102-05	CCOV50-SC-BK

Size:	P/N - Kitted:	Product Code LIGHT GREY:
9-way	2360-0102-11	CCOV 9-SC-LG
15-way	2360-0102-12	CCOV15-SC-LG
25-way	2360-0102-13	CCOV25-SC-LG
37-way	2360-0102-14	CCOV37-SC-LG
50-way	2360-0102-15	CCOV50-SC-LG

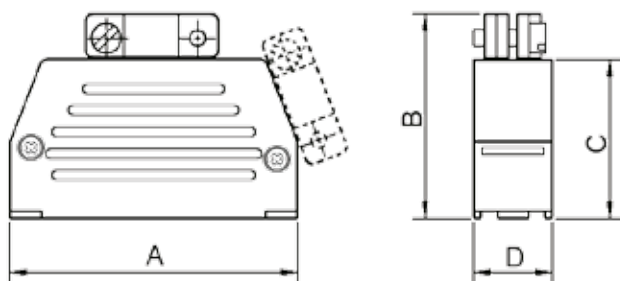
Ordering information - LONG Jackscrews:

Size:	P/N - Kitted:	Product Code BLACK:
9-way	2360-0102-21	CCOV 9-SCL-BK
15-way	2360-0102-22	CCOV15-SCL-BK
25-way	2360-0102-23	CCOV25-SCL-BK
37-way	2360-0102-24	CCOV37-SCL-BK
50-way	2360-0102-25	CCOV50-SCL-BK

Size:	P/N - Kitted:	Product Code LIGHT GREY:
9-way	2360-0102-31	CCOV 9-SCL-LG
15-way	2360-0102-32	CCOV15-SCL-LG
25-way	2360-0102-33	CCOV25-SCL-LG
37-way	2360-0102-34	CCOV37-SCL-LG
50-way	2360-0102-35	CCOV50-SCL-LG

TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top + Side Entry
Cable O.D:	Up to 9mm
Colour:	Black



Features:

- Suitable for sizes 9, 15, 25, 37 and 50-way
- Easy to re-open
- Slide-Lock system integrated inside hood with special spring and slide lever
- Hoods are supplied complete with Slide-Lock system
- Slide-Lock and Spring Lever also available as accessories - Please see page 187
- Hood without Slide-Lock delivered on request
- Metalized version available on special request

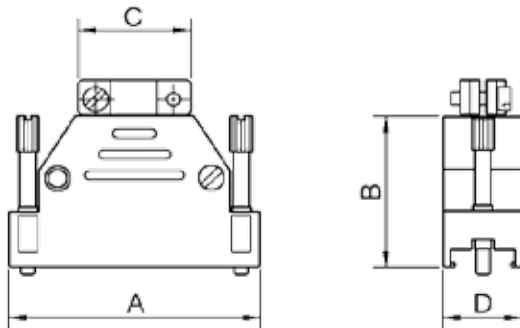
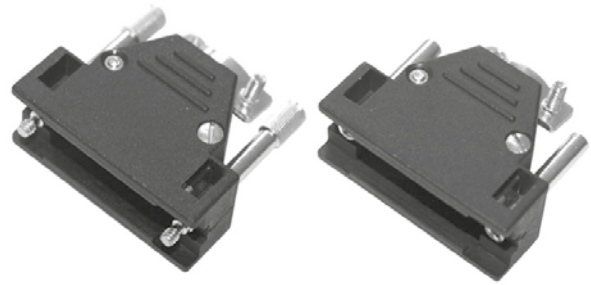
Size	A	B	C	D
9	32,2	28,6	22,1	15,0
15	39,8	34,1	26,1	15,0
25	54,2	38,3	30,3	15,0
37	70,7	46,2	38,2	15,0
50	68,0	46,2	38,2	18,0

Ordering information: Hood with Slide-Locks

Size:	P/N - Kitted:	Product Code:
9-way	2801-0101-01	ED-DS09S-K
15-way	2801-0101-02	ED-DS15S-K
25-way	2801-0101-03	ED-DS25S-K
37-way	2801-0101-04	ED-DS37S-K
50-way	2801-0101-05	ED-DS50S-K

TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top Entry
Cable O.D:	Up to 9mm
Colour:	Black
Jackscrew:	UNC 4-40 Male or Female Version



Features:

- Suitable for sizes 9, 15, 25 and 37
- Easy to re-open
- Male or female Jackscrew

Size	A	B	C	D	E
9	31,4	24,0	14,5	38,0	18,2
15	42,0	30,0	14,5	38,0	18,2
25	55,5	36,0	25,1	38,0	18,2
37	69,8	38,0	39,2	38,0	18,2

Ordering information: Male Jackscrew

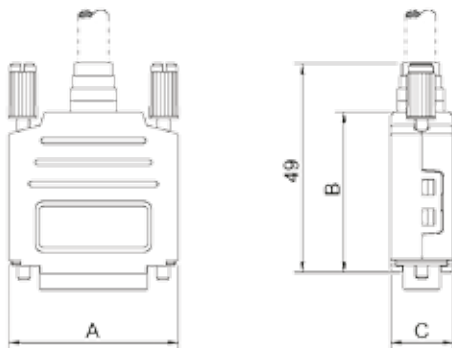
Size:	P/N - Kitted:	Product Code:
9-way, Male JS	2801-0102-01	ED-D09T-K
15-way, Male JS	2801-0102-02	ED-D15T-K
25-way, Male JS	2801-0102-03	ED-D25T-K
37-way, Male JS	2801-0102-04	ED-D37T-K

Ordering information: Female Jackscrew

Size:	P/N - Kitted:	Product Code:
9-way, Female JS	2801-0102-11	ED-D09TF-K
15-way, Female JS	2801-0102-12	ED-D15TF-K
25-way, Female JS	2801-0102-13	ED-D25TF-K
37-way, Female JS	2801-0102-14	ED-D37TF-K

TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11,5mm
Accessories:	See page 190-194
Assembly Instruction:	See page 198



Size	Dim A	Dim B	Dim C
9-way	32,5	38,0	15,0
15-way	41,0	38,0	15,0
25-way	54,5	40,0	15,0
37-way	71,0	40,0	15,0

Features:

- Available in sizes 9, 15, 25 and 37-way
- Suitable for any common Sub-D Connector
- Quick-Snap locking system
- Re-openable
- Company logo available upon request
- Recyclable

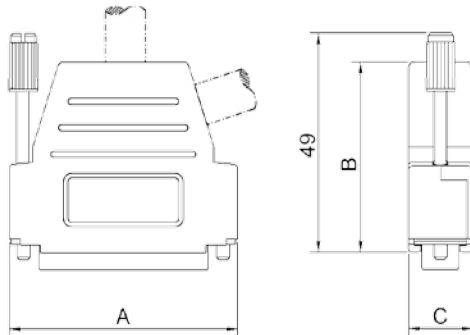
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6260-0105-01	DPPK-M-09-K
15-way	6260-0105-02	DPPK-M-15-K
25-way	6260-0105-03	DPPK-M-25-K
37-way	6260-0105-04	DPPK-M-37-K

Size:	P/N - BULK:	Product Code:
9-way	6261-0105-01	DPPK-M-09
15-way	6261-0105-02	DPPK-M-15
25-way	6261-0105-03	DPPK-M-25
37-way	6261-0105-04	DPPK-M-37

TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-55°C to +110°C
Cable Entry:	Side and Top (L) Side Only (S) Top Only (T)
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11,5mm
Accessories:	See page 190-194
Assembly Instruction:	See page 198



Size DSSK-T/P	Dim A	Dim B	Dim B	DimC
9-way	31,5	40,0	43,0*	15,0
15-way	40,0	40,0	-	15,0
25-way	53,5	43,0	-	15,0
37-way	71,3	40,0	-	15,0

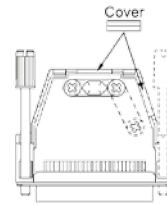
* Top only

Ordering information:

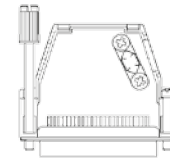
Size:	P/N - Kitted:	Product Code:	L
9-way	6260-0106-01	DSSK-M-09-L-K	
15-way	6260-0106-02	DSSK-M-15-L-K	
25-way	6260-0106-03	DSSK-M-25-L-K	

Size:	P/N - Kitted:	Product Code:	S
9-way	6260-0106-11	DSSK-M-09-S-K	
15-way	6260-0106-12	DSSK-M-15-S-K	
25-way	6260-0106-13	DSSK-M-25-S-K	
37-way	6260-0106-14	DSSK-M-37-S-K	

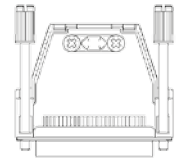
Size:	P/N - Kitted:	Product Code:	T
9-way	6260-0106-21	DSSK-M-09-T-K	
15-way	6260-0106-22	DSSK-M-15-T-K	
25-way	6260-0106-23	DSSK-M-25-T-K	



L: Top & Side Entry



S: Side Entry Only



T: Top Entry Only

Features:

- Available in sizes 9-15-25-37
- Suitable for any common Sub-D connector
- Quick-snap locking system
- Re-openable
- Company logo available upon request
- Also available in Unshielded Version, See page 8
- Recyclable

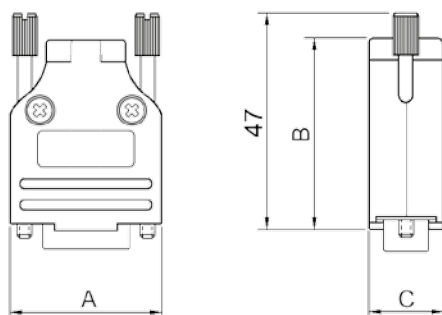
Size:	P/N - BULK:	Product Code:	L
9-way	6261-0106-01	DSSK-M-09-L	
15-way	6261-0106-02	DSSK-M-15-L	
25-way	6261-0106-03	DSSK-M-25-L	

Size:	P/N - BULK:	Product Code:	S
9-way	6261-0106-11	DSSK-M-09-S	
15-way	6261-0106-12	DSSK-M-15-S	
25-way	6261-0106-13	DSSK-M-25-S	
37-way	6261-0106-14	DSSK-M-37-S	

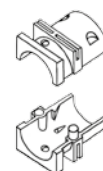
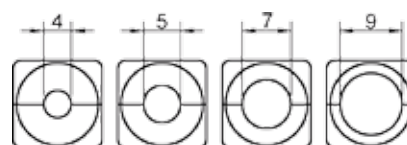
Size:	P/N - BULK:	Product Code:	T
9-way	6261-0106-21	DSSK-M-09-T	
15-way	6261-0106-22	DSSK-M-15-T	
25-way	6261-0106-23	DSSK-M-25-T	

TECHNICAL SPECIFICATIONS

Material:	UL 94 V-0 Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 199



Grommet Sizes MHDTPK 9-37:



Size MHDTPK	Dim A	Dim B	Dim C
9-way	31,2	39,9	15,0
15-way	39,5	41,5	15,0
25-way	53,4	48,6	15,0
37-way	69,7	53,6	15,0

Features:

- Available in sizes 9-15-25-37
- Suitable for any common Sub-D Connector
- Strain relief inserts ensure a secure termination
- Re-openable
- Company logo available upon request
- Also available in Unshielded Version, See page 9
- Recyclable

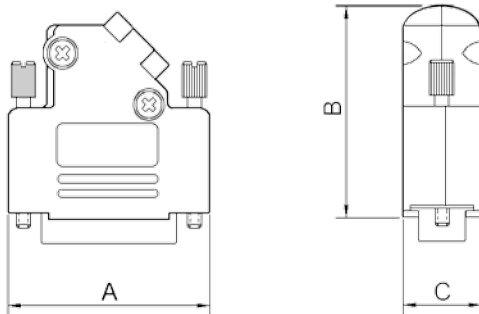
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0145-01	DTPK-9-K
15-way	6560-0145-02	DTPK-15-K
25-way	6560-0145-03	DTPK-25-K
37-way	6560-0145-04	DTPK-37-K

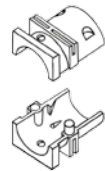
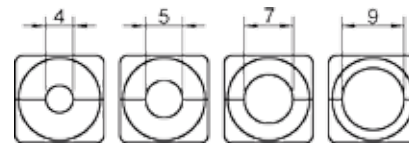
Size:	P/N - BULK:	Product Code:
9-way	6561-0145-01	DTPK-9
15-way	6561-0145-02	DTPK-15
25-way	6561-0145-03	DTPK-25
37-way	6561-0145-04	DTPK-37

TECHNICAL SPECIFICATIONS

Material:	UL 94 V-0 Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-55°C to +110°C
Cable Entry:	Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 199



Grommet Sizes MHD45PK 9-37:



Size MHD45PK	Dim A	Dim B	Dim C
9-way	31,0	36,3	15,0
15-way	39,5	40,3	15,0
25-way	53,2	40,3	15,0
37-way	69,7	40,3	15,0

Features:

- Available in sizes 9-15-25-37
- Suitable for any common Sub-D Connector
- Strain relief inserts ensure a secure termination
- Re-openable
- Company logo available upon request
- Also available in Unshielded Version, See page 10
- Recyclable

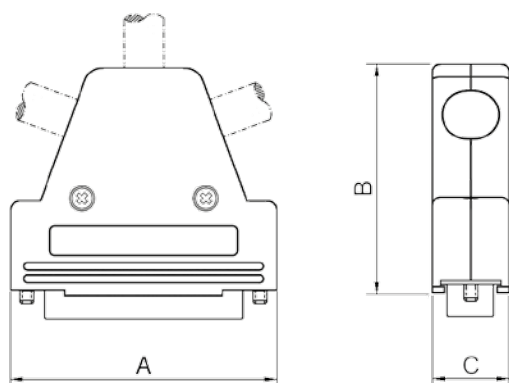
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0146-11	D45PK-9-K
15-way	6560-0146-12	D45PK-15-K
25-way	6560-0146-13	D45PK-25-K
37-way	6560-0146-14	D45PK-37-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0146-11	D45PK-9
15-way	6561-0146-12	D45PK-15
25-way	6561-0146-13	D45PK-25
37-way	6561-0146-14	D45PK-37

TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-55°C to +110°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 13mm



Size MHTRI-M	Dim A	Dim B	Dim C
9-way	31,0	45,2	15,0
15-way	40,3	45,2	15,0
25-way	53,5	45,2	15,0
37-way	70,0	45,2	15,0

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6550-0100-01	TRI-M-09-K
15-way	6550-0100-02	TRI-M-15-K
25-way	6550-0100-03	TRI-M-25-K
37-way	6550-0100-04	TRI-M-37-K

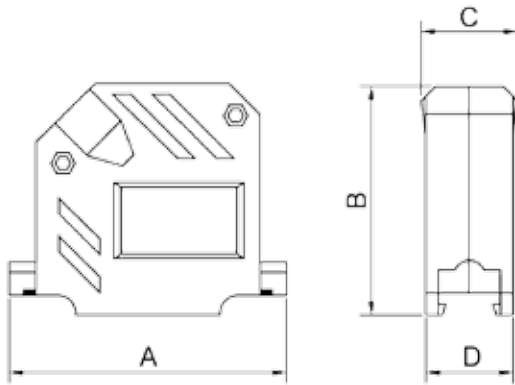
Features:

- Available in sizes 9-15-25-37
- All sizes feature 3-Way Entry solution
- Re-openable
- Hood is supplied with 2 Blanking Plates and 2 Strain Relief clamps. Extra Blanking Plates and/or Strain Reliefs are available on request.
- Also available in Unshielded Version, See page 11

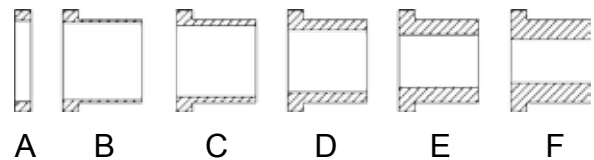
TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-40°C to +120°C
Cable Entry:	Side Entry
Thumbscrews:	UNC 4-40
Cable O.D:	Up to 16,5mm*

* For specific values - see dimensions below.



Compression Inserts - Inner Diameters:



Size	Dim A	Dim B	Dim C	Dim D
9-way	31,3	40,0	16,3	16,3
15-way	39,1	43,5	16,3	16,3
25-way	53,1	47,7	18,0	16,3
37-way	69,3	53,9	23,0	16,3

Size	A	B	C	D	E	F
9-way	8,10	8,00	7,25	6,50	5,30	-
15-way	8,10	8,00	7,25	6,50	5,30	-
25-way	11,40	10,40	9,40	7,60	5,80	-
37-way	16,50	15,75	14,50	12,70	10,80	8,90

Ordering information:

Size:	P/N - Kitted:	Product Code:	45° SIDE
9-way	1060-0106-11	C88E200000	
15-way	1060-0106-12	C88E210000	
25-way	1060-0106-13	C88E220000	
37-way	1060-0106-14	C88E230000	

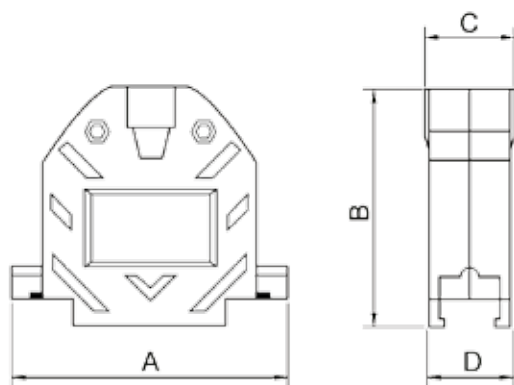
Features:

- Available in sizes 9-15-25-37
- Re-openable
- Strain Relief / Compression Insert manufactured in Thermoplastic compound.
- Also available in Top Entry, See page 22

TECHNICAL SPECIFICATIONS

Material:	UL Recognised Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40
Cable O.D:	Up to 16,5mm*

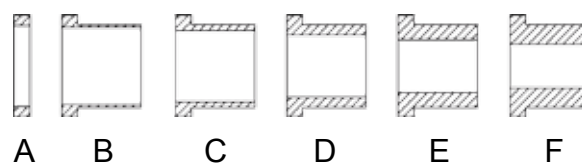
* For specific values - see dimensions below.



Size	Dim A	Dim B	Dim C	Dim D
9-way	31,3	40,0	16,3	16,3
15-way	39,1	43,5	16,3	16,3
25-way	53,1	47,7	18,0	16,3
37-way	69,3	53,9	23,0	16,3
50-way	67,2	50,8	23,9	19,6



Compression Inserts - Inner Diameters:



Size	A	B	C	D	E	F
9-way	8,10	8,00	7,25	6,50	5,30	-
15-way	8,10	8,00	7,25	6,50	5,30	-
25-way	11,40	10,40	9,40	7,60	5,80	-
37-way	16,50	15,75	14,50	12,70	10,80	8,90
50-way	16,50	15,75	14,50	12,70	10,80	8,90

Ordering information:

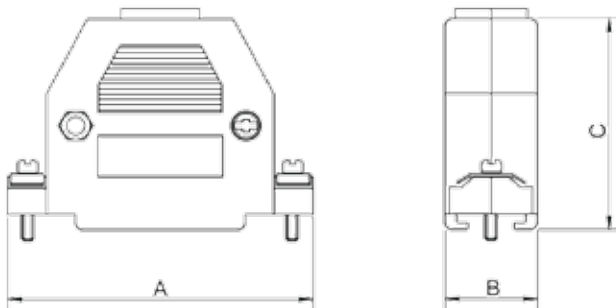
Size:	P/N - Kitted:	Product Code:	TOP
9-way	1060-0105-01	C88E300000	
15-way	1060-0105-02	C88E310000	
25-way	1060-0105-03	C88E320000	
37-way	1060-0105-04	C88E330000	
50-way	1060-0105-05	C88E340000	

Features:

- Available in sizes 9-15-25-37-50
- Re-openable
- Strain Relief / Compression Insert manufactured in Thermoplastic compound.
- Also available in Side Entry, See page 21

TECHNICAL SPECIFICATIONS

Material:	UL recognised Plastic Material
Plating:	Nickel over Copper
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Short)
Cable O.D:	Up to 13mm



Size	Dim A	Dim B	Dim C
9-way	31,0	16,0	40,2
15-way	39,6	17,4	38,0
25-way	55,0	16,5	44,5
37-way	69,0	24,0	52,5
50-way	69,5	19,5	44,5

Features:

- Available in sizes 9-15-25-37-50
- Re-openable
- Also available in Unshielded version, See page 13

Ordering information: *Short Jackscrews*

Size:	P/N - Kitted:	Product Code:
9-way	2360-0105-01	CCOV 9-SC-MP
15-way	2360-0105-02	CCOV15-SC-MP
25-way	2360-0105-03	CCOV25-SC-MP
37-way	2360-0105-04	CCOV37-SC-MP
50-way	2360-0105-05	CCOV50-SC-MP

Long Jackscrews

Size:	P/N - Kitted:	Product Code:
9-way	2360-0105-11	CCOV 9-SCL-MP
15-way	2360-0105-12	CCOV15-SCL-MP
25-way	2360-0105-13	CCOV25-SCL-MP
37-way	2360-0105-14	CCOV37-SCL-MP
50-way	2360-0105-15	CCOV50-SCL-MP

TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 13mm
Accessories:	See page 190-194
Assembly Instruction:	See page 202-203

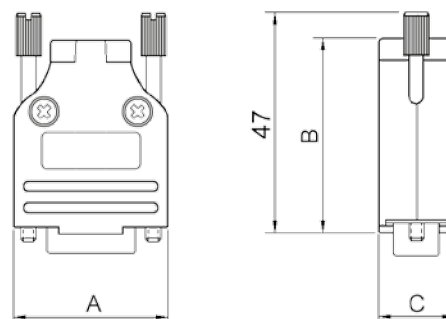


Features:

- Available in sizes 9-15-25-37
- 360° EMI Shielding
- 3 versions of same concept
- Quick assembly
- Supports all types of cables
- Suitable for any common D-Sub connector

Types available:

- MHC: Crimp Version
- MHDM: Metalized Grommet Kit + Clamp
- MHEE: Metalized Cone + Clamp



Size:	Dim A	Dim B	Dim C
9-way	32,2	41,3	15,4
15-way	40,6	43,3	15,4
25-way	54,5	49,5	15,4
37-way	70,7	54,3	15,4

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0135-01	MHC-9-K
15-way	6560-0135-02	MHC-15-K
25-way	6560-0135-03	MHC-25-K
37-way	6560-0135-04	MHC-37-K

Size:	P/N - Kitted:	Product Code:
9-way	6560-0136-01	MHDM-9-K
15-way	6560-0136-02	MHDM-15-K
25-way	6560-0136-03	MHDM-25-K
37-way	6560-0136-04	MHDM-37-K

MHC-Series



Size:	P/N:	Product Code:
5,3mm	6522-0119-11	MHC-5,3
6,0mm	6522-0119-12	MHC-6,0
7,0mm	6522-0119-13	MHC-7,0
7,5mm	6522-0119-14	MHC-7,5
8,6mm	6522-0119-15	MHC-8,6

MHDM-Series



Included when ordering

TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 13mm
Accessories:	See page 190-194
Assembly Instruction:	See page 202-203

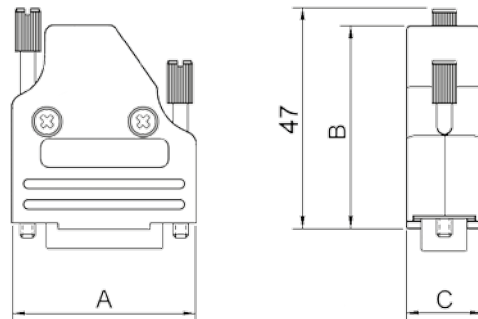


Features:

- Available in sizes 9-15-25-37
- 360° EMI Shielding
- 3 versions of same concept
- Quick assembly
- Supports all types of cables
- Suitable for any common D-Sub connector

Types available:

- MHC35: Crimp Version
- MHDM35: Metalized Grommet Kit + Clamp
- MHEE35: Metalized Cone + Clamp



Size:	Dim A	Dim B	Dim C
9-way	43,0	32,0	15,5
15-way	43,0	40,4	15,5
25-way	48,0	54,0	15,5
37-way	53,0	70,5	15,5

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0138-11	MHC35-9-K
15-way	6560-0138-12	MHC35-15-K
25-way	6560-0138-13	MHC35-25-K
37-way	6560-0138-14	MHC35-37-K

Size:	P/N - Kitted:	Product Code:
9-way	6560-0139-11	MHDM35-9-K
15-way	6560-0139-12	MHDM35-15-K
25-way	6560-0139-13	MHDM35-25-K
37-way	6560-0139-14	MHDM35-37-K

MHC35-Series

Size:	P/N:	Product Code:
5,3mm	6522-0119-11	MHC-5,3
6,0mm	6522-0119-12	MHC-6,0
7,0mm	6522-0119-13	MHC-7,0
7,5mm	6522-0119-14	MHC-7,5
8,6mm	6522-0119-15	MHC-8,6

MHDM35-Series



Included when ordering

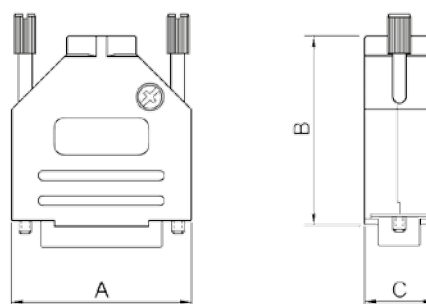
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm (Size 9-37) Up to 17mm (Size 50)
Accessories:	See page 190-194
Assembly Instruction:	See page 200



Features:

- Available in sizes 9-15-25-37-50*
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Full Metal Jackscrew as standard.
- Also available with Metalized (RAHI) grommets
See page 28

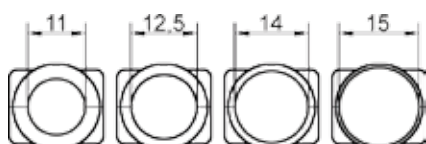


NEW: Size 50 now available

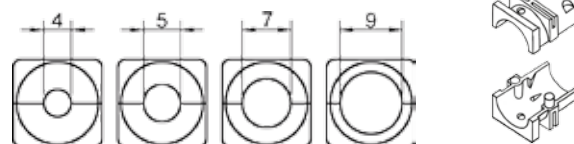


Size MHDTZK	Dim A	Dim B	Dim C
9-way	31,0	39,5	15,0
15-way	39,5	41,5	15,0
25-way	53,5	48,5	15,0
37-way	71,0	53,0	15,0
50-way	67,5	54,0	18,7

Grommet Sizes / DTZK50:



Grommet Sizes / DTZK09-37:



Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0105-01	DTZK09-RA-K
15-way	6560-0105-02	DTZK15-RA-K
25-way	6560-0105-03	DTZK25-RA-K
37-way	6560-0105-04	DTZK37-RA-K
50-way	6560-0105-05	DTZK50-RA-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0105-01	DTZK09-RA
15-way	6561-0105-02	DTZK15-RA
25-way	6561-0105-03	DTZK25-RA
37-way	6561-0105-04	DTZK37-RA
50-way	6561-0105-05	DTZK50-RA

TECHNICAL SPECIFICATIONS

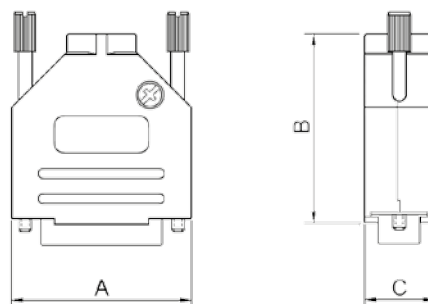
Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm (Size 9-37) Up to 17mm (Size 50)
Accessories:	See page 190-194
Assembly Instruction:	See page 200



Features:

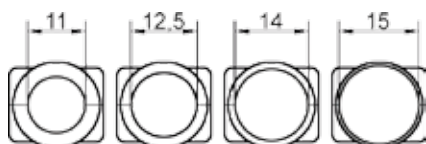
- Available in sizes 9-15-25-37-50*
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Jackscrew with Black Plastic Knob as standard. Grey Plastic Knob available on Request.
- Also available with Metalized (RAHI) grommets
See page 29

NEW: Size 50 now available

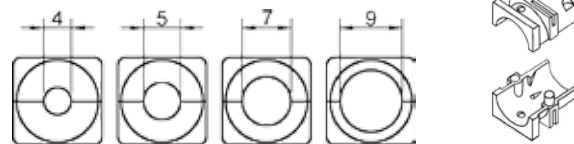


Size MHDZK	Dim A	Dim B	Dim C
9-way	31,0	39,5	15,0
15-way	39,5	41,5	15,0
25-way	53,5	48,5	15,0
37-way	71,0	53,0	15,0
50-way	67,5	54,0	18,7

Grommet Sizes / DTZK50:



Grommet Sizes / DTZK09-37:



Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-3105-01	DTZK09-RA-PCBK-K
15-way	6560-3105-02	DTZK15-RA-PCBK-K
25-way	6560-3105-03	DTZK25-RA-PCBK-K
37-way	6560-3105-04	DTZK37-RA-PCBK-K
50-way	6560-3105-05	DTZK50-RA-PCBK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-3105-01	DTZK09-RA-PCBK
15-way	6561-3105-02	DTZK15-RA-PCBK
25-way	6561-3105-03	DTZK25-RA-PCBK
37-way	6561-3105-04	DTZK37-RA-PCBK
50-way	6561-3105-05	DTZK50-RA-PCBK

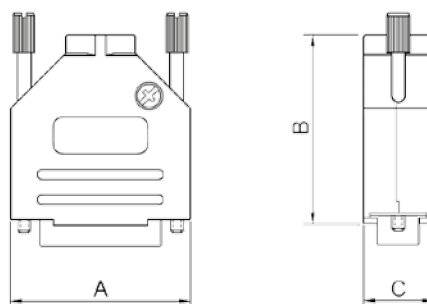
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 200

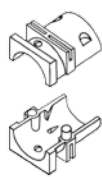
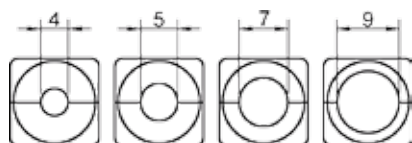


Features:

- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Full Metal Jackscrew as standard.
- Available with Standard (RA) grommets - See page 26



Grommet Sizes / DTZK09-37:



Size MHDTZK	Dim A	Dim B	Dim C
9-way	31,0	39,5	15,0
15-way	39,5	41,5	15,0
25-way	53,5	48,5	15,0
37-way	71,0	53,0	15,0

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0705-01	DTZK09-RAHI-K
15-way	6560-0705-02	DTZK15-RAHI-K
25-way	6560-0705-03	DTZK25-RAHI-K
37-way	6560-0705-04	DTZK37-RAHI-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0705-01	DTZK09-RAHI
15-way	6561-0705-02	DTZK15-RAHI
25-way	6561-0705-03	DTZK25-RAHI
37-way	6561-0705-04	DTZK37-RAHI

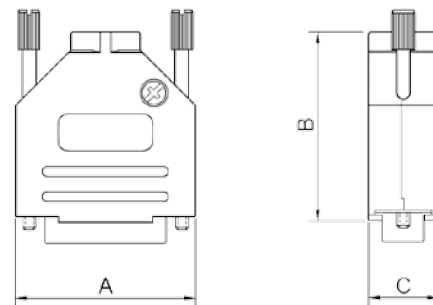
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 200

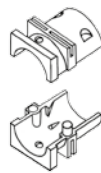
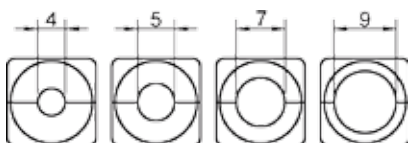


Features:

- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Jackscrew with Black Plastic Knob as standard.
Grey Plastic Knob available on Request.
- Available with Standard (RA) grommets - See page 27



Grommet Sizes / DTZK09-37:



Size MHDTZK	Dim A	Dim B	Dim C
9-way	31,0	39,5	15,0
15-way	39,5	41,5	15,0
25-way	53,5	48,5	15,0
37-way	71,0	53,0	15,0

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-3705-01	DTZK09-RAHI-PCBK-K
15-way	6560-3705-02	DTZK15-RAHI-PCBK-K
25-way	6560-3705-03	DTZK25-RAHI-PCBK-K
37-way	6560-3705-04	DTZK37-RAHI-PCBK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-3705-01	DTZK09-RAHI-PCBK
15-way	6561-3705-02	DTZK15-RAHI-PCBK
25-way	6561-3705-03	DTZK25-RAHI-PCBK
37-way	6561-3705-04	DTZK37-RAHI-PCBK

TECHNICAL SPECIFICATIONS

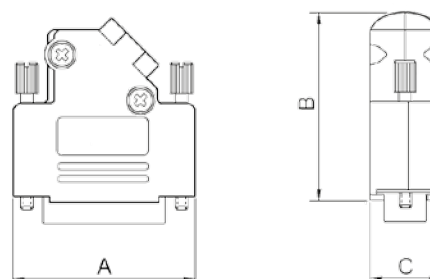
Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	45° Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm (Size 9-37) Up to 17mm (Size 50)
Accessories:	See page 190-194
Assembly Instruction:	See page 200



Features:

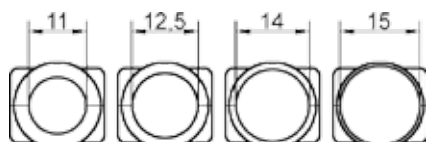
- Available in sizes 9-15-25-37-50
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Metalized (RAHI) grommets on request. see page 186

NEW: Size 50 now available

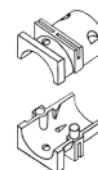
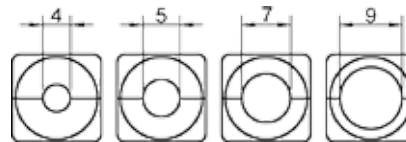


Size MHD45ZK	Dim A	Dim B	Dim C
9-way	31,0	36,3	14,5
15-way	39,5	40,3	14,5
25-way	53,2	40,3	14,5
37-way	69,7	40,3	14,5
50-way	67,4	44,9	17,4

Grommet Sizes / D45ZK50:



Grommet Sizes / D45ZK09-37:



Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0106-11	D45ZK09-RA-K
15-way	6560-0106-12	D45ZK15-RA-K
25-way	6560-0106-13	D45ZK25-RA-K
37-way	6560-0106-14	D45ZK37-RA-K
50-way	6560-0106-15	D45ZK50-RA-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0106-11	D45ZK09-RA
15-way	6561-0106-12	D45ZK15-RA
25-way	6561-0106-13	D45ZK25-RA
37-way	6561-0106-14	D45ZK37-RA
50-way	6561-0106-15	D45ZK50-RA

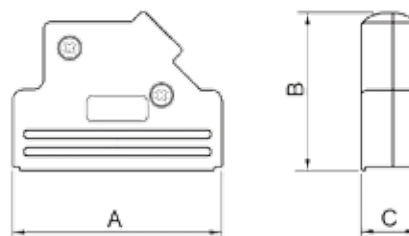
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Side Entry
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 200



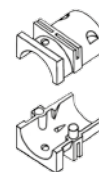
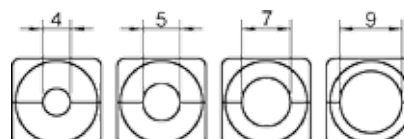
Features:

- Full Metal Slide-Lock System Hood
- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Metalized (RAHI) grommets on request - See page 186



Size MHDVSL	Dim A	Dim B	Dim C
9-way	14,5	36,3	31,0
15-way	14,5	40,3	39,5
25-way	14,5	40,3	53,2
37-way	14,5	40,3	69,7

Grommet Sizes / D45ZK09-37:



Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0206-31	DVSL09-K
15-way	6560-0206-32	DVSL15-K
25-way	6560-0206-33	DVSL25-K
37-way	6560-0206-34	DVSL37-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0206-31	DVSL09
15-way	6561-0206-32	DVSL15
25-way	6561-0206-33	DVSL25
37-way	6561-0206-34	DVSL37

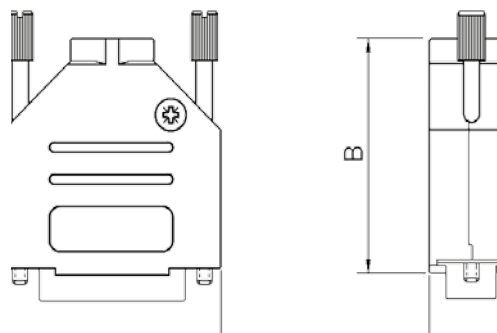
TECHNICAL SPECIFICATIONS

Material:	Zinc, Black
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 200



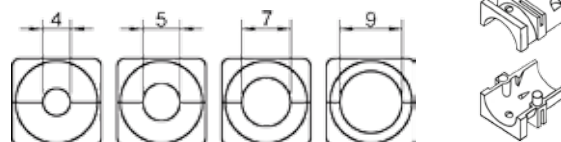
Features:

- Rapid Assembly (RA)
- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Full Metal Jackscrew as standard
- Plastic Cap Jackscrew on request



Size MHDTZK	Dim A	Dim B	Dim C
9-way	31,2	39,9	15,0
15-way	39,5	41,5	15,0
25-way	53,4	48,6	15,0
37-way	69,7	53,6	15,0

Grommet Sizes / D45ZK09-37:



Ordering information:

Rapid Assembly (RA) Style

Size:	P/N - Kitted:	Product Code:
9-way	6560-0115-01	DTZK09-RA-BK-K
15-way	6560-0115-02	DTZK15-RA-BK-K
25-way	6560-0115-03	DTZK25-RA-BK-K
37-way	6560-0115-04	DTZK37-RA-BK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0115-01	DTZK09-RA-BK
15-way	6561-0115-02	DTZK15-RA-BK
25-way	6561-0115-03	DTZK25-RA-BK
37-way	6561-0115-04	DTZK37-RA-BK

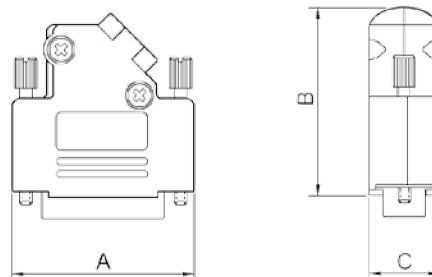
TECHNICAL SPECIFICATIONS

Material:	Zinc, Black
Operating Temperature:	-40°C to +120°C
Cable Entry:	45° Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 12mm
Accessories:	See page 190-194
Assembly Instruction:	See page 200



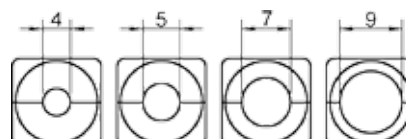
Features:

- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Strain relief inserts ensure a secure termination



Size MHD45ZK	Dim A	Dim B	Dim C
9-way	31,0	36,3	14,5
15-way	39,5	40,3	14,5
25-way	53,2	40,3	14,5
37-way	69,7	40,3	14,5

Grommet Sizes / D45ZK09-37:



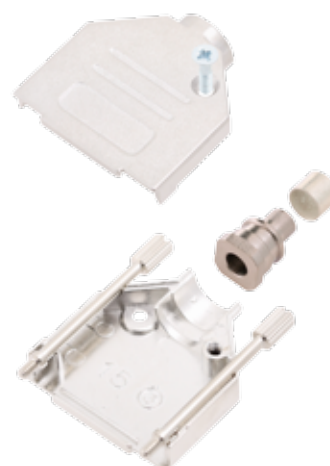
Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0116-11	D45ZK09-BK-K
15-way	6560-0116-12	D45ZK15-BK-K
25-way	6560-0116-13	D45ZK25-BK-K
37-way	6560-0116-14	D45ZK37-BK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0116-11	D45ZK09-BK
15-way	6561-0116-12	D45ZK15-BK
25-way	6561-0116-13	D45ZK25-BK
37-way	6561-0116-14	D45ZK37-BK

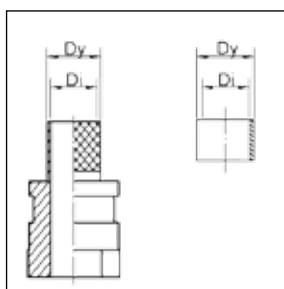
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated Brass Ferrule / Brass Ring
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D.:	Up to 9,5mm
Accessories:	See page 190-194
Assembly Instruction:	See page 201

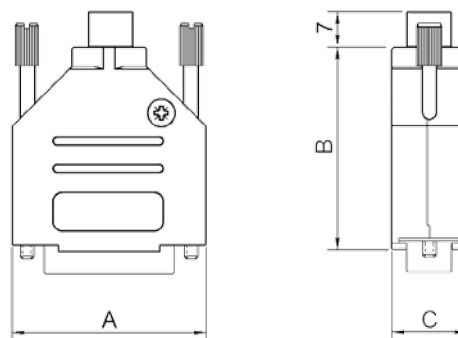


Features:

- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Full Metal Jackscrew as standard



Max Cable O.D. (mm)	Body: Dy / Di	Ring: Dy / Di	Order Code X:
6,0	5,0 / 4,0	7,0 / 6,0	1
7,5	7,0 / 6,0	9,0 / 8,0	2
8,5	8,0 / 7,0	10,0 / 9,0	3
9,5	9,0 / 8,0	11,0 / 10,0	4



Size MHDZK	Dim A	Dim B	Dim C
9-way	31,2	39,9	15,0
15-way	39,5	41,5	15,0
25-way	53,4	48,6	15,0
37-way	69,7	53,6	15,0

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-06X5-01	DTZK09-CZK-K
15-way	6560-06X5-02	DTZK15-CZK-K
25-way	6560-06X5-03	DTZK25-CZK-K
37-way	6560-06X5-04	DTZK37-CZK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-06X5-01	DTZK09-CZK
15-way	6561-06X5-02	DTZK15-CZK
25-way	6561-06X5-03	DTZK25-CZK
37-way	6561-06X5-04	DTZK37-CZK

Example:	(Size 15 with 7,5mm Ferrule Kit)
6560-0625-02	DTZK15-CZK-K

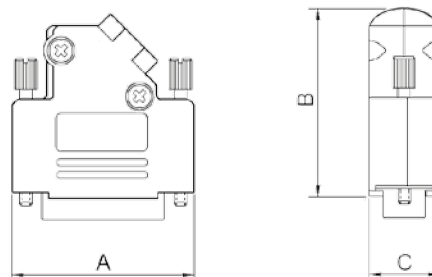
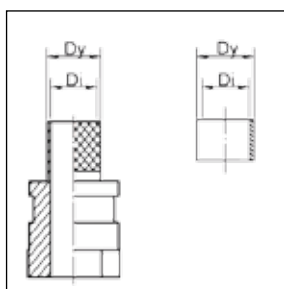
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated Brass Ferrule / Brass Ring
Operating Temperature:	-40°C to +120°C
Cable Entry:	45° Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D.:	Up to 9,5mm
Accessories:	See page 190-194
Assembly Instruction:	See page 201



Features:

- Available in sizes 9-15-25-37
- Excellent EMI Shielding
- Re-openable
- Strain relief inserts ensure a secure termination
- Full Metal Jackscrew as standard



Max Cable O.D. (mm)	Body: Dy / Di	Ring: Dy / Di	Order Code X:
6,0	5,0 / 4,0	7,0 / 6,0	1
7,5	7,0 / 6,0	9,0 / 8,0	2
8,5	8,0 / 7,0	10,0 / 9,0	3
9,5	9,0 / 8,0	11,0 / 10,0	4

Size MHD45ZK	Dim A	Dim B	Dim C
9-way	31,0	36,3	14,5
15-way	39,5	40,3	14,5
25-way	53,2	40,3	14,5
37-way	69,7	40,3	14,5

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-06X6-11	D45ZK09-CZK-K
15-way	6560-06X6-12	D45ZK15-CZK-K
25-way	6560-06X6-13	D45ZK25-CZK-K
37-way	6560-06X6-14	D45ZK37-CZK-K

Size:	P/N - BULK:	Product Code:
9-way	6561-06X6-11	D45ZK09-CZK
15-way	6561-06X6-12	D45ZK15-CZK
25-way	6561-06X6-13	D45ZK25-CZK
37-way	6561-06X6-14	D45ZK37-CZK

Example:	(Size 15 with 7,5mm Ferrule Kit)
6560-0626-12	D45ZK15-CZK-K

TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top or Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11.5mm

Features:

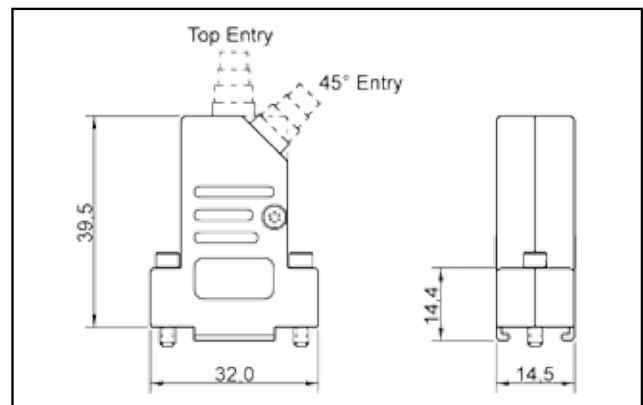
- 360° EMI Shielding
- Quick assembly
- Supports all types of cables
- Suitable for any common D-Sub connector

Applications:

- Railway Systems
- Medical
- Industry
- Military

Types available:

- DTSL-JS Jackscrew Version
- DTSL-SL Slide Lock Version



DTSL-JS - With Rubber Grommet



DTSL-JSFR

DTSL-JS - With Metalized Cone



DTSL-JS

Ordering information:

DTSL-JSFR

Size:	P/N - Kitted:	Product Code:
9-way-TOP	6560-0237-31	MHDTSL09-JSFR-T-K
9-way-SIDE	6560-0238-31	MHDTSL09-JSFR-S-K
Size:	P/N - BULK:	Product Code:
9-way-TOP	6561-0237-31	MHDTSL09-JSFR-T
9-way-SIDE	6561-0238-31	MHDTSL09-JSFR-S

DTSL-JS

Size:	P/N - Kitted:	Product Code:
9-way-TOP	6560-0207-31	MHDTSL09-JS-T-K
9-way-SIDE	6560-0208-31	MHDTSL09-JS-S-K
Size:	P/N - BULK:	Product Code:
9-way-TOP	6561-0207-31	MHDTSL09-JS-T
9-way-SIDE	6561-0208-31	MHDTSL09-JS-S

TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top or Side Entry
Thumbscrews:	UNC 4-40 (Standard) M2,5 or M3 on request
Cable O.D:	Up to 11.5mm

Features:

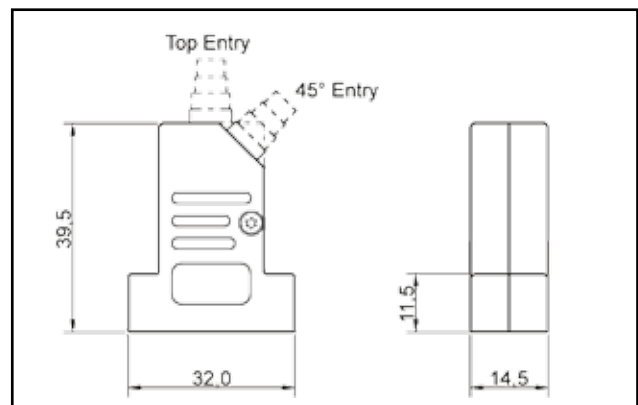
- 360° EMI Shielding
- Quick assembly
- Supports all types of cables
- Suitable for any common D-Sub connector

Applications:

- Railway Systems
- Medical
- Industry
- Military

Types available:

- DTSL-JS Jackscrew Version
- DTSL-SL Slide Lock Version



DTSL-SL - With Rubber Grommet



DTSL-SLFR

DTSL-SL - With Metalized Cone



DTSL-SL

Ordering information:

DTSL-SLFR

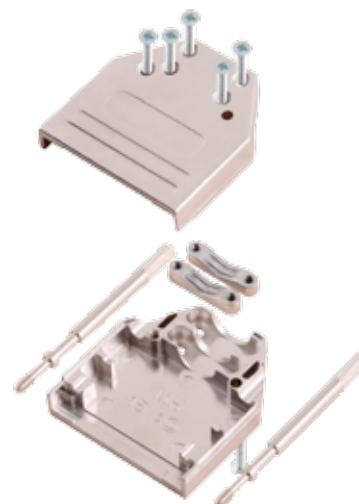
Size:	P/N - Kitted:	Product Code:
9-way-TOP	6560-0235-31	DTSL09-SLFR-T-K
9-way-SIDE	6560-0239-31	DTSL09-SLFR-S-K
Size:	P/N - BULK:	Product Code:
9-way-TOP	6561-0235-31	DTSL09-SLFR-T
9-way-SIDE	6561-0239-31	DTSL09-SLFR-S

DTSL-SL

Size:	P/N - Kitted:	Product Code:
9-way-TOP	6560-0205-31	DTSL09-SL-T-K
9-way-SIDE	6560-0209-31	DTSL09-SL-S-K
Size:	P/N - BULK:	Product Code:
9-way-TOP	6561-0205-31	DTSL09-SL-T
9-way-SIDE	6561-0209-31	DTSL09-SL-S

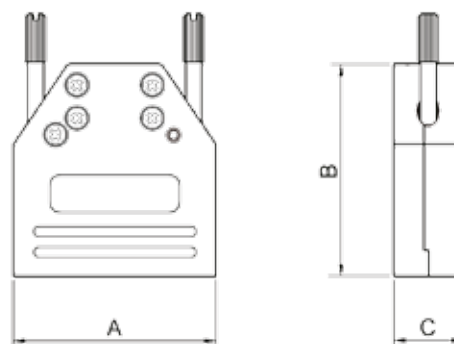
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Jackscrews:	UNC 4-40 (Standard) Other thread on request
Cable O.D:	Up to 13mm



Features:

- Available in sizes 9-15-25-37-50
- Excellent EMI Shielding
- Re-openable
- Double strain relief for strong and secure cable clamping



Size MHDTZI	Dim A	Dim B	Dim C
9-way	34,0	45,0	14,6
15-way	43,0	45,0	14,6
25-way	56,5	45,0	14,6
37-way	73,0	45,0	14,6
50-way	71,0	45,0	17,4

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0305-01	DTZI09-K
15-way	6560-0305-02	DTZI15-K
25-way	6560-0305-03	DTZI25-K
37-way	6560-0305-04	DTZI37-K
50-way	6560-0305-05	DTZI50-K

Size:	P/N - BULK:	Product Code:
9-way	6561-0305-01	DTZI09
15-way	6561-0305-02	DTZI15
25-way	6561-0305-03	DTZI25
37-way	6561-0305-04	DTZI37
50-way	6561-0305-05	DTZI50

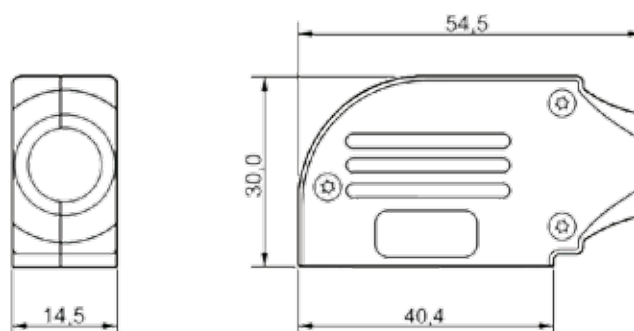
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Side Entry
Cable O.D:	Up to 12mm
Type of grommets:	2 piece Plastic Ferrule Kit
Assembly Instruction:	See page 200

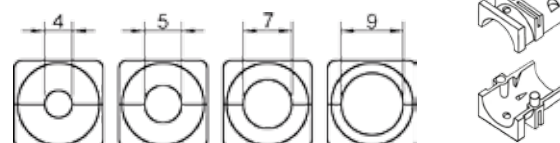


Features:

- Mull Metal Slide Lock System Hood
- Available in size 15 only
- Suitable for any common Sub-D connector
- Re-Openable
- Perfect Solution for Ethernet Applications
- Metalized (RAHI) grommets on request - See page 186



Grommet Sizes - MHDSCK:



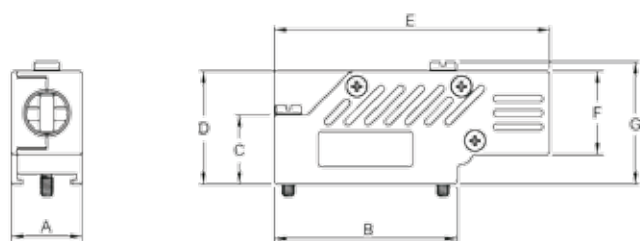
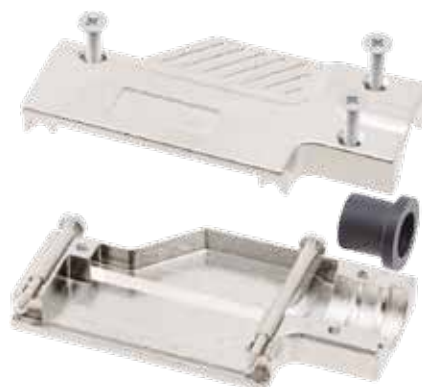
Ordering information:

Size:	P/N - Kitted:	Product Code:
15-way	6560-0406-32	DSCK-15-SL-K

Size:	P/N - BULK:	Product Code:
15-way	6561-0406-32	DSCK-15-SL

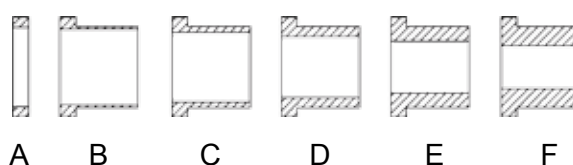
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-25°C to +90°C
Cable Entry:	Side Entry
Jackscraws:	UNC 4-40
Cable O.D:	Up to 16,5mm
Type of grommets:	Compression Inserts



Size	A	B	C	D	E	F	G
9	15,0	30,8	15,0	24,4	50,8	18,0	26,2
15	15,2	39,4	15,0	24,4	59,3	18,0	26,4
25	15,8	53,3	23,1	34,5	72,4	24,3	35,0
37	15,8	69,9	23,1	40,9	89,7	30,7	42,9
50	18,0	67,1	-	40,9	86,9	30,7	42,9

Compression Inserts - Inner Diameters:



Size	A	B	C	D	E	F
9/15	8,10	8,00	7,25	6,50	5,30	-
25	11,40	10,40	9,40	7,60	5,80	-
37/50	16,50	15,75	14,50	12,70	10,80	8,90

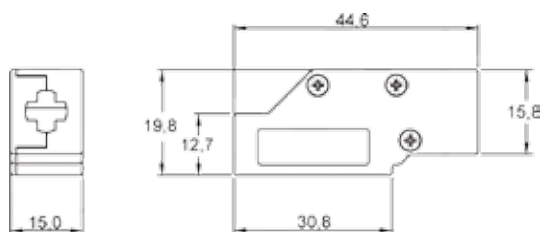
Features:

- Available in sizes 9, 15, 25 and 37-way
Size 50 on request
- Suitable for any common Sub-D connector
- Re-Openable
- Compression Inserts in Thermoplastic Compound

Order codes:

9-way	1060-0135-01	DCMR9-ULP
15-way	1060-0135-02	DCMR15-ULP
25-way	1060-0135-03	DCMR25-ULP
37-way	1060-0135-04	DCMR37-ULP
50-way	1060-0135-05	DCMR50-ULP

Slide Lock Version:



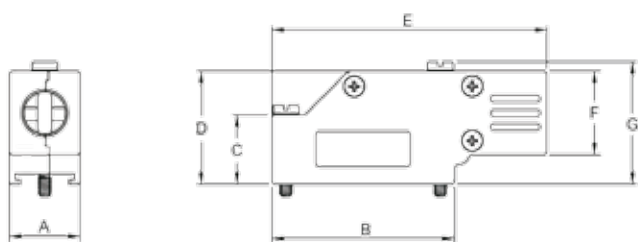
- Material as above ULP-version
- Available in size 9 only

Order codes:

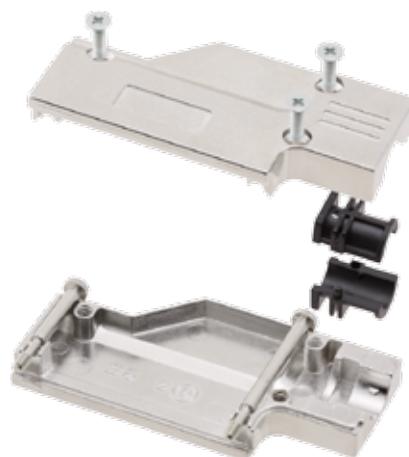
9-way	1060-0135-11	MHDCMR09-SL
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TECHNICAL SPECIFICATIONS

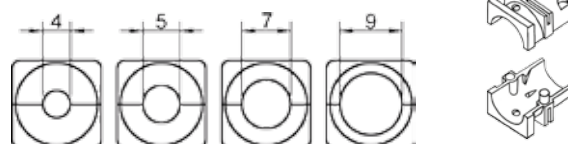
Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Side Entry
Jackscrews:	UNC 4-40
Cable O.D:	Up to 12mm
Type of grommets:	2 piece Plastic Ferrule Kit (RA)
Assembly Instruction:	See page 200



Size	A	B	C	D	E	F	G
9	15,0	30,8	15,0	24,4	50,8	18,0	26,2
25	15,8	53,3	23,1	34,5	72,4	24,3	36,6



Grommet Sizes - MHDCMR-RA:



Features:

- Available in sizes 9 and 25-way
Other sizes on request
- Suitable for any common Sub-D connector
- Re-Openable
- Metalized (RAHI) grommets on request - See page 186

Ordering information:

Size:	P/N - Kitted:	Product Code:
9-way	6560-0501-01	DCMR09-RA-K
15-way	6560-0501-02	On request
25-way	6560-0501-03	DCMR25-RA-K
37-way	6560-0501-04	On request

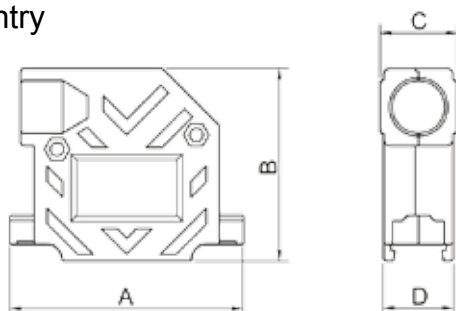
Size:	P/N - BULK:	Product Code:
9-way	6561-0501-01	DCMR09-RA
15-way	6561-0501-02	On request
25-way	6561-0501-03	DCMR25-RA
37-way	6561-0501-04	On request

TECHNICAL SPECIFICATIONS

Material: Zinc, Nickel Plated
Operating Temperature: -25°C to +90°C
Cable Entry: Side or Top Entry
 Flat Cable Entry
Jackscrews: UNC 4-40

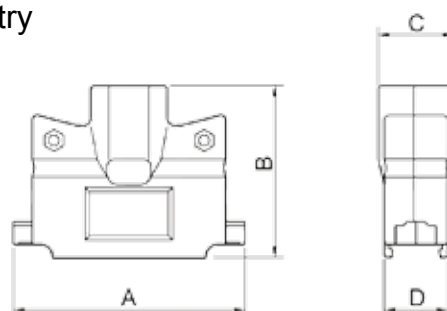


Side Entry



Size	Dim A	Dim B	Dim C	Dim D
25	53,1	43,6	18,0	16,3

Top Entry



Size	Dim A	Dim B	Dim C	Dim D
9	31,1	37,2	15,7	15,7
15	39,1	40,6	15,7	15,7
25	53,1	39,1	17,5	15,7
37	66,6	45,7	21,9	18,5
50	66,6	45,7	21,9	18,5

Ordering information:

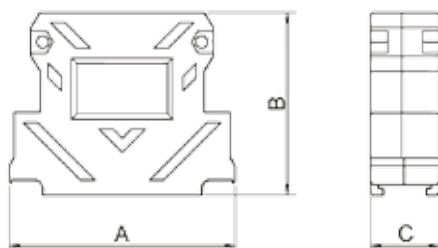
Side Entry

Size:	P/N - Kitted:	Product Code:
25-way	1060-0206-03	C88E420000

Top Entry

Size:	P/N - Kitted:	Product Code:
9-way	1060-0205-01	C88E000209
15-way	1060-0205-02	C88E000211
25-way	1060-0205-03	C88E000204
37-way	1060-0205-04	C88E000210
50-way	1060-0205-05	C88E000212

MHC88E - Flat Cable Entry Hood



Size:	Dim A	Dim B	Dim C
Flat - 25-way	55,5	45,7	17,5



Ordering information:

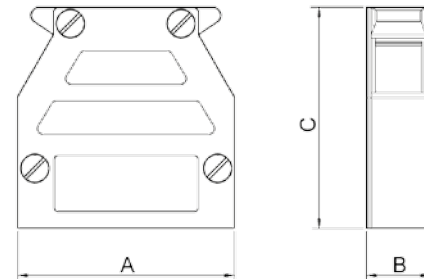
Size:	P/N - Kitted:	Product Code:
25-way	1060-0207-03	C88E520000

TECHNICAL SPECIFICATIONS

Material:	Zinc Alloy, Natural Finish
Operating Temperature:	-40°C to +120°C
Cable Entry:	Side-Top-Side Entry
Cable O.D:	Up to 14,3mm

Features:

- Available in sizes 9, 15, 25, 37 and 50-way
- Re-openable
- Flanges & Crimp Ferrules are ordered separately.
- 2 Shouldered screws to retain connector
- Can be equipped with standard Slide-Lock System (Sold Separately - See Accessories, page 186-190)



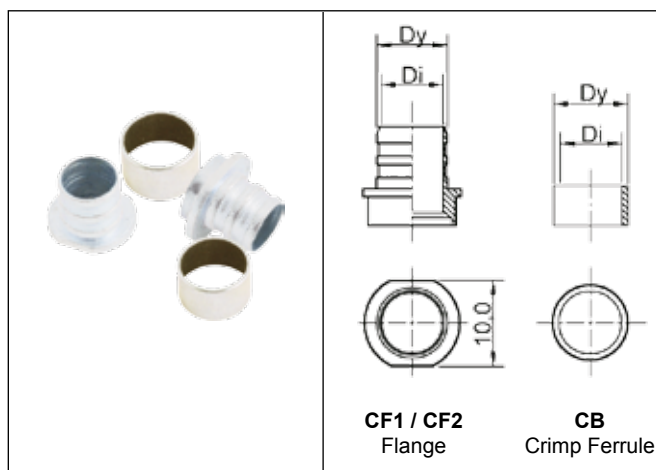
Ordering information:

Slide-Lock Version

Size:	P/N - Kitted:	Product Code:
9-way	2801-0107-01	ED-H09-M1-K
15-way	2801-0107-02	ED-H15-M1-K
25-way	2801-0107-03	ED-H25-M1-K
37-way	2801-0107-04	ED-H37-M1-K
50-way	2801-0107-05	ED-H50-M1-K

Size MHED-H	Dim A	Dim B	Dim C
9-way	31,4	16,2	48,3
15-way	40,2	16,2	48,3
25-way	53,0	16,2	48,3
37-way	69,2	16,2	48,3
50-way	67,0	18,4	48,3

Accessories for MHED-H:

CF1 / CF2
FlangeCB
Crimp Ferrule

Flange:	Di:	Dy:	Max Cable O.D:	Part Number:
CFx-030/040	3,0	4,0	6,3mm	2802-x000-01
CFx-035/045	3,5	4,5	7,3mm	2802-x000-02
CFx-040/050	4,0	5,0	8,3mm	2802-x000-03
CFx-045/055	4,5	5,5	8,8mm	2802-x000-04
CFx-050/060	5,0	6,0	9,3mm	2802-x000-05
CFx-055/065	5,5	6,5	9,8mm	2802-x000-06
CFx-060/070	6,0	7,0	10,3mm	2802-x000-07
CFx-065/075	6,5	7,5	10,8mm	2802-x000-08
CFx-070/080	7,0	8,0	11,8mm	2802-x000-09
CFx-075/085	7,5	8,5	12,3mm	2802-x000-10
CFx-080/090	8,0	9,0	12,8mm	2802-x000-11
CFx-085/095	8,5	9,5	13,3mm	2802-x000-12
CFx-090/100	9,0	10,0	13,8mm	2802-x000-13
CFx-095/105	9,5	10,5	14,3mm	2802-x000-14

Crimp Ferrule:	Di:	Dy:	Suitable Flange:	Part Number:
CB055/065	5,5	6,5	CFx030/040	2802-3000-01
CB065/075	6,5	7,5	CFx035/045	2802-3000-02
CB075/085	7,5	8,5	CFx040/050	2802-3000-03
CB080/090	8,0	9,0	CFx045/055	2802-3000-04
CB085/095	8,5	9,5	CFx050/060	2802-3000-05
CB090/100	9,0	10,0	CFx055/065	2802-3000-06
CB095/105	9,5	10,5	CFx060/070	2802-3000-07
CB100/110	10,0	11,0	CFx065/075	2802-3000-08
CB110/120	11,0	12,0	CFx070/080	2802-3000-09
CB115/125	11,5	12,5	CFx075/085	2802-3000-10
CB120/130	12,0	13,0	CFx080/090	2802-3000-11
CB125/135	12,5	13,5	CFx085/095	2802-3000-12
CB130/140	13,0	14,0	CFx090/100	2802-3000-13
CB135/145	13,5	14,5	CFx095/105	2802-3000-14

How To Order Flange:

Suite Hood Sizes:

2802-1000-xx	CF1-Di / Dy	9-37
2802-2000-xx	CF2-Di / Dy	50

How To Order Crimp Ferrule:

Suite Hood Sizes:

2802-3000-xx	CB-Di / Dy	9-50
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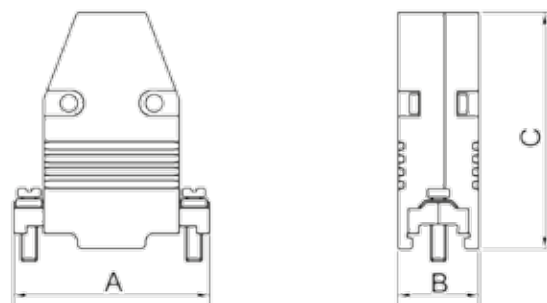
TECHNICAL SPECIFICATIONS

Material:	Zinc, Nickel Plated
Operating Temperature:	-40°C to +120°C
Cable Entry:	Top Entry
Cable O.D:	Up to 16mm
Jackscrews:	UNC 4-40 Short Jackscrews (ME-version) Long Jackscrews (MEL-version)



Features:

- Available in sizes 9, 15, 25, 37 and 50
- Suitable for any common Sub-D connector
- Re-Openable
- Available also with Long Jackscrews (MEL)



Size MHCCOV	Dim A	Dim B	Dim C
9-way	31,4	16,2	48,3
15-way	40,2	16,2	48,3
25-way	53,0	16,2	48,3
37-way	69,2	16,2	48,3
50-way	67,0	18,4	48,3

Ordering information: (Short Jackscrews)

Size:	P/N - Kitted:	Product Code:
9-way	2360-0106-01	CCOV 9-ME
15-way	2360-0106-02	CCOV15-ME
25-way	2360-0106-03	CCOV25-ME
37-way	2360-0106-04	CCOV37-ME
50-way	2360-0106-05	CCOV50-ME

(Long Jackscrews)

Size:	P/N - Kitted:	Product Code:
9-way	2360-0106-11	CCOV 9-MEL
15-way	2360-0106-12	CCOV15-MEL
25-way	2360-0106-13	CCOV25-MEL
37-way	2360-0106-14	CCOV37-MEL
50-way	2360-0106-15	CCOV50-MEL

TECHNICAL SPECIFICATIONS

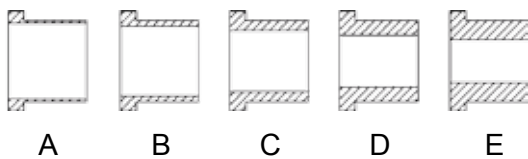
Material:	Zinc, Nickel Plated
Operating Temperature:	-25°C to +90°C
Cable Entry:	Top Entry
Cable O.D:	Up to 16mm*
Jackscrews:	UNC 4-40 Short Jackscrews (ME-version) Long Jackscrews (MEL-version)

* Cable Diameter Max 16mm if Compression Insert is not used.
Recommended diameters with Inserts - Please see table below.

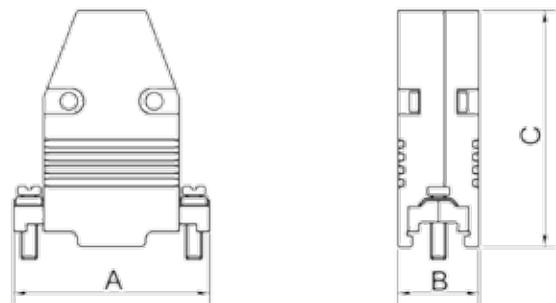
Features:

- Available in sizes 9, 15, 25, 37 and 50
- Suitable for any common Sub-D connector
- Re-Openable
- Available also with Long Jackscrews (MEL)

Compression Inserts - Inner Diameters:



Size	A	B	C	D	E
9/15	8,00	7,50	7,00	6,00	4,50
25	9,50	8,30	7,90	6,75	5,80
37/50	13,50	13,00	11,00	9,00	8,00



Size MHCCOV	Dim A	Dim B	Dim C
9-way	31,4	16,2	53,0
15-way	40,2	16,2	48,3
25-way	53,0	16,2	48,3
37-way	69,2	16,2	48,3
50-way	67,0	18,4	48,3

Ordering information: (Short Jackscrews)

Size:	P/N - Kitted:	Product Code:
9-way	2360-0107-01	CCOV 9-ME-RG
15-way	2360-0107-02	CCOV15-ME-RG
25-way	2360-0107-03	CCOV25-ME-RG
37-way	2360-0107-04	CCOV37-ME-RG
50-way	2360-0107-05	CCOV50-ME-RG

(Long Jackscrews)

Size:	P/N - Kitted:	Product Code:
9-way	2360-0107-11	CCOV 9-MEL-RG
15-way	2360-0107-12	CCOV15-MEL-RG
25-way	2360-0107-13	CCOV25-MEL-RG
37-way	2360-0107-14	CCOV37-MEL-RG
50-way	2360-0107-15	CCOV50-MEL-RG

TECHNICAL SPECIFICATIONS

Material:

Plastic Hood: Polyamid - UL-recognised
 Metal Hood: Steel, Zinc plated

Operating Temperature: -55°C to +110°C

Thumbscrews: UNC 4-40 (Standard)
 M2,5 or M3 on request

Cable Entry: Top Entry

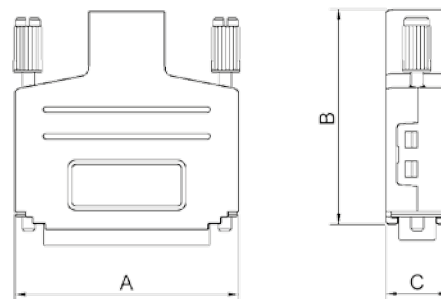
Cable O.D: Up to 12,5mm

Accessories: See page 190-194

Assembly Instruction: See page 205-206

**Features:**

- Available in sizes 9-15-25-37
- Suitable for IDC connectors
- Quick-Snap locking system
- Crimping method ensures a 360° shielding

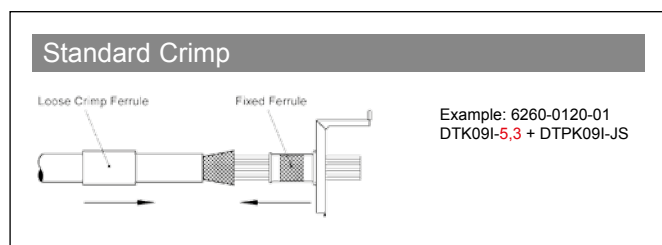


Ordering information:

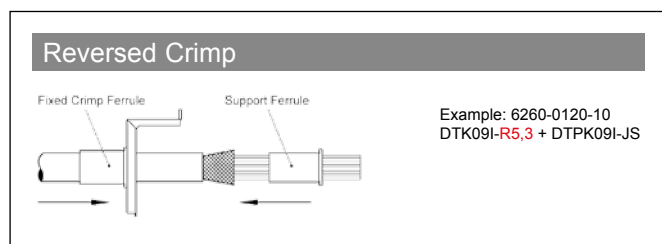
Size:	P/N - Kitted:	Product Code:
9-way	6260-0120-xx	DTK09I-[size] + DTPK09I-JS
15-way	6260-0121-xx	DTK15I-[size] + DTPK15I-JS
25-way	6260-0122-xx	DTK25I-[size] + DTPK25I-JS
37-way	6260-0123-xx	DTK37I-[size] + DTPK37I-JS

Size DTK/DTPK	Dim A	Dim B	Dim C
9-way	35,0	54,0	19,0
15-way	43,0	54,0	19,0
25-way	54,0	53,0	18,0
37-way	74,0	54,0	19,0

Code for correct ferrule:



Cable O.D	Size	Order Code xx	Suits Hood size
Up to 7 mm	5,3	-01	9-15-25-37
6,8–8,6 mm	6,0	-02	9-15-25-37
8,4–9,8 mm	7,0	-03	9-15-25-37
9,6–10,3 mm	7,5	-04	9-15-25-37
10,1–11,0 mm	8,6	-05	15-25-37
10,8–12,5 mm	10,5	-07	25-37



Cable O.D	Size	Order Code xx	Suits Hood size
Up to 5,1 mm	R5,3	-10	9-15-25-37
4,3–6,9 mm	R7,1	-12	9-15-25-37
7,0–7,9 mm	R8,0	-13	9-15-25-37
6,1–8,8 mm	R9,0	-14	9-15-25-37
8,0–10,3 mm	R10,5	-15	15-25-37
9,5–11,5 mm	R11,7	-16	25-37

SPECIAL HOODS

Flat Cable Connector Hood

Material: ABS Plastic
Unshielded version (Standard)
Shielded version on request

Sizes: 9-15-25-37

Screws: UNC 4-40 locking screw



DFCK

Ordering information:

Size:	Part Number:	Product Code:
9-way	1520-0101-01	MHDFCK09-P
15-way	1520-0101-02	MHDFCK15-P
25-way	1520-0101-03	MHDFCK25-P
37-way	1520-0101-04	MHDFCK37-P

04

Flat Cable Grip Cap

Material: ABS Plastic, Black

Sizes: 9-15-25

Each kit contains fastening bolts



DFCC

Ordering information:

Size:	Part Number:	Product Code:
9-way	1520-0201-01	MHDFCC09-P
15-way	1520-0201-02	MHDFCC15-P
25-way	1520-0201-03	MHDFCC25-P

Drawn D-Connector Metal Cans

Material: Steel, Zinc Plated

Sizes: 9-15-25-37

Ordering information:

Size:	Part Number:	Product Code:	Max Cable O.D:
9-way	2901-0101-01	DMCK09 - 5.5	5,3mm
9-way	2901-0101-11	DMCK09 - 7.2	7,1mm
9-way	2901-0101-21	DMCK09 - 9.5	9,3mm
15-way	2901-0101-02	DMCK15 - 7.2	7,1mm
15-way	2901-0101-12	DMCK15 - 9.5	9,3mm
25-way	2901-0101-03	DMCK25 - 7.2	7,1mm
25-way	2901-0101-13	DMCK25 - 9.5	9,3mm
25-way	2901-0101-23	DMCK25 - 10.8	10,5mm
37-way	2901-0101-04	DMCK37 - 10.8	10,5mm



DMCK

The drawn metal cans are normally used as a press fit shielding cover prior to overmoulding with PVC. The cable-to-can entry can be heat shrink sleeved to provide sealing against dust.

TECHNICAL SPECIFICATIONS

Materials:

Unshielded Hood: Polyamid - UL-recognised

Operating Temperature: -55°C to +110°C

Thumbscrews: UNC 4-40 (Standard)

Shielded Hood: ABS/PC - UL-recognised

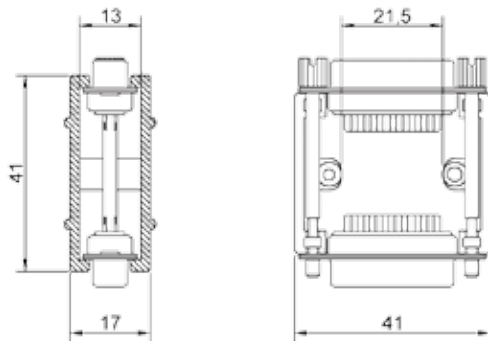
Plating: Nickel over Copper

Operating Temperature: -55°C to +110°C

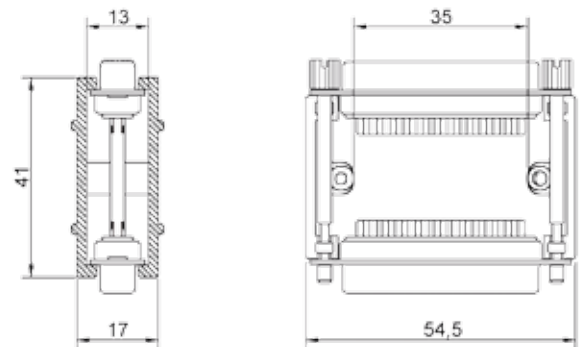
Thumbscrews: UNC 4-40 (Standard)



MHDAPK 15



MHDAPK 25



Ordering information:

Unshielded Version

Size:	P/N - Kitted:	Product Code:
15-way	6211-0100-32	DAPK15-JS
25-way	6211-0100-33	DAPK25-JS

Ordering information:

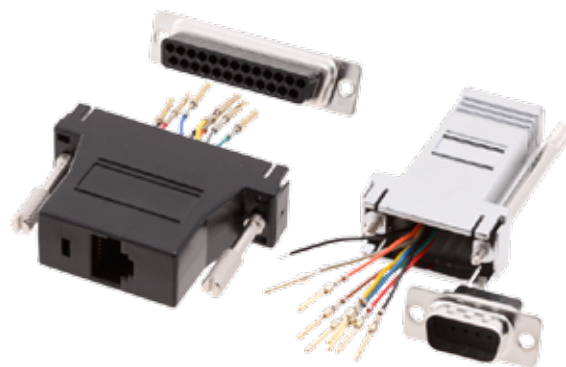
Shielded Version

Size:	P/N - Kitted:	Product Code:
15-way	6211-0100-42	DAPK15-JS/MET
25-way	6211-0100-43	DAPK25-JS/MET

Note:

All adapters are delivered with 2 long jackscrews in standard versions as seen in above drawings and ordering information.

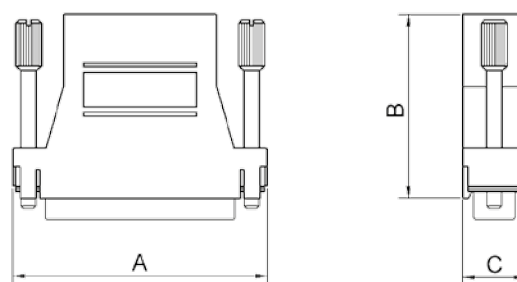
TECHNICAL SPECIFICATIONS

Materials:**Unshielded Hood:** UL-recognised plastic material**Operating Temperature:** -30°C to +110°C**Colour:** Black (Standard)
Other colour on request**Shielded Hood:** UL-recognised plastic material**Plating:** Nickel over Copper**Operating Temperature:** -30°C to +90°C**Thumbscrews:** UNC 4-40 (Standard)

05

Features:

- Available in sizes 9 and 25 (15 on request)
- Available in EMI-shielded and unshielded version
- Delivered complete with wires and Sub-D
- Pre-wired connectors on request



Size MHDA	Dim A	Dim B	Dim C
9-way	33,0	15,0	49,5
15-way	41,3	15,0	39,0
25-way	55,1	15,0	39,0

Ordering information:

Unshielded Version

Size:	P/N - Kitted:	Product Code:
9-way	2112-0100-01	DA09-SMJ6-K-RC
25-way	2112-0100-03	DA25-SMJ6-K-RC
9-way	2112-0100-11	DA09-PMJ6-K-RC
25-way	2112-0100-13	DA25-PMJ6-K-RC
9-way	2112-0101-01	DA09-SMJ8-K-RC
25-way	2112-0101-03	DA25-SMJ8-K-RC
9-way	2112-0101-11	DA09-PMJ8-K-RC
25-way	2112-0101-13	DA25-PMJ8-K-RC

Ordering information:

Shielded Version

Size:	P/N - Kitted:	Product Code:
9-way	2112-0105-01	DA09-SMJ8-M-K-RC
25-way	2112-0105-03	DA25-SMJ8-M-K-RC
9-way	2112-0105-11	DA09-PMJ8-M-K-RC
25-way	2112-0105-13	DA25-PMJ8-M-K-RC

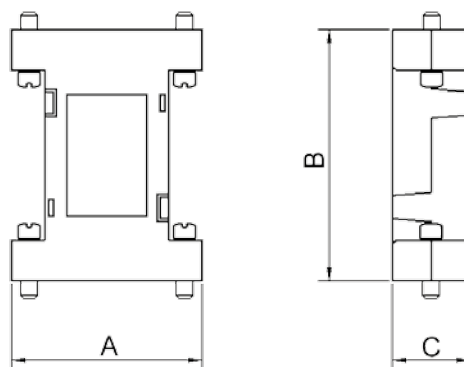
SMJ6 = Sub-D Female to RJ11

PMJ6 = Sub-D Male to RJ11

SMJ8 = Sub-D Female to RJ45

PMJ8 = Sub-D Male to RJ45

TECHNICAL SPECIFICATIONS

Materials:**Unshielded Hood:** UL-recognised plastic material**Operating Temperature:** -30°C to +110°C**Colour:** Light Grey (Standard)
Other colour on request**Shielded Hood:** UL-recognised plastic material**Plating:** Nickel over Copper**Operating Temperature:** -30°C to +90°C**Jackscrews:** UNC 4-40 (Standard)

MM = Male to Male Sub-D

MF = Male to Female Sub-D

FF = Female to Female Sub-D

Size MHGA	Dim A	Dim B	Dim C
9-way	33,2	62,0	16,5
15-way	41,0	62,0	16,5
25-way	56,0	62,0	16,5

Ordering information:

Unshielded Version

Size:	P/N - Kitted:	Product Code:
9-way	2111-0101-01	GA0909-MM-LG-K-RC
15-way	2111-0101-02	GA1515-MM-LG-K-RC
25-way	2111-0101-03	GA2525-MM-LG-K-RC
9-way	2111-0101-11	GA0909-MF-LG-K-RC
15-way	2111-0101-12	GA1515-MF-LG-K-RC
25-way	2111-0101-13	GA2525-MF-LG-K-RC
9-way	2111-0101-21	GA0909-FF-LG-K-RC
15-way	2111-0101-22	GA1515-FF-LG-K-RC
25-way	2111-0101-23	GA2525-FF-LG-K-RC

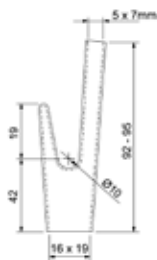
Ordering information:

Shielded Version

Size:	P/N - Kitted:	Product Code:
9-way	2111-0105-01	GA0909-MM-M-K-RC
15-way	2111-0105-02	GA1515-MM-M-K-RC
25-way	2111-0105-03	GA2525-MM-M-K-RC
9-way	2111-0105-11	GA0909-MF-M-K-RC
15-way	2111-0105-12	GA1515-MF-M-K-RC
25-way	2111-0105-13	GA2525-MF-M-K-RC
9-way	2111-0105-21	GA0909-FF-M-K-RC
15-way	2111-0105-22	GA1515-FF-M-K-RC
25-way	2111-0105-23	GA2525-FF-M-K-RC

DIP-MOULDED GASKET SERIES

Battery Clip Insulating Covers – 20A



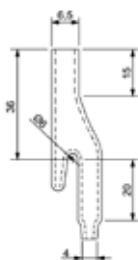
Features:

- Red or Black colour
- Suitable for 20 Amp
- Material: PVC

Order Code:	Colour:
DIP-IBC20A-R	RED
DIP-IBC20A-BK	BLACK



Battery Clip Insulating Covers – 5A



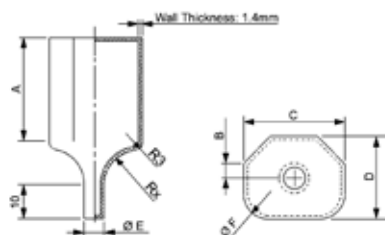
Features:

- Red or Black colour
- Suitable for 5 Amp
- Material: PVC

Order Code:	Colour:
DIP-IC5A-R	RED
DIP-IC5A-BK	BLACK



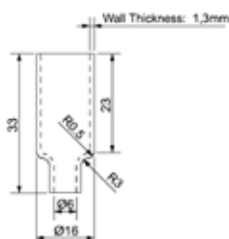
IEC Insulating Covers



For protecting a variety of IEC Inlets, Outlets and Filters

Order Code:	A	B	C	D	ØE	ØF	Rx	Material:	Colour:
DIP-IEC4-BK	35	-	27,0	19,0	4,0	4	10,0	UL94 V-0-rated PVC	Black
DIP-IEC5-BK	30	-	27,0	19,0	4,0	4	10,0	UL94 V-0-rated PVC	Black
DIP-IEC6S-BK	22	-	27,0	19,0	6,0	4	10,5	UL94 V-0-rated PVC	Black
DIP-IEC6L-BK	35	8,25	26,5	30,5	6,4	-	10,0	UL94 V-0-rated PVC	Black
DIP-IEC7-BK	38	4,25	30,0	24,0	6,4	16	9,0	UL94 V-0-rated PVC	Black

Rear Insulating Cover



Features:

- Rear Insulating Cover
- Black PVC
- Suitable for electrical connections of 3, 4 and 6-pole 3A Mini Inlet and Outlet Plugs & Sockets

Order Code:	Colour:
DIP-IMI3A-BK	BLACK



SUB-D CONNECTORS

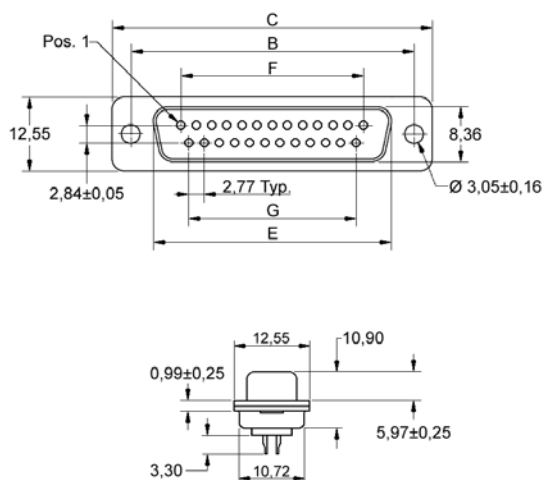
DB-DM-Series – Solder Cup

Material Specification:

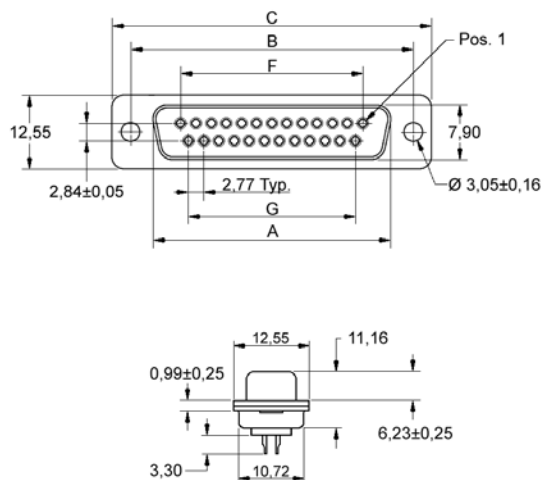
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contact pins:	Copper Alloy
Stamped & Formed Pins	Class 3, 100 inserts min. (DB)
Machined Pins:	Class 1, 500 inserts min. (DM)
Contact Plating:	Selective Gold over Nickel
Mounting Options:	See page 60



Plug connector



Socket connector



Size	A	B	C	E	F	G
9	16,92	24,99	30,81	16,33	11,08	8,31
15	25,25	33,32	39,14	24,66	19,39	16,62
25	38,96	47,04	53,04	38,38	33,24	30,47
37	55,25	63,50	69,32	54,84	49,86	47,09
50*	Available on request					

Order Codes:

Plug Connector	Stamped & Formed
09 2101-0180-01	DB09-SP
15 2101-0180-02	DB15-SP
25 2101-0180-03	DB25-SP
37 2101-0180-04	DB37-SP
50 2101-0180-05	DB50-SP

Plug Connector	Machined Contacts
09 2101-0200-01	DM09-SP
15 2101-0200-02	DM15-SP
25 2101-0200-03	DM25-SP
37 2101-0200-04	DM37-SP
50	On request

Socket Connector	Stamped & Formed
09 2101-0180-11	DB09-SS
15 2101-0180-12	DB15-SS
25 2101-0180-13	DB25-SS
37 2101-0180-14	DB37-SS
50 2101-0180-15	DB50-SS

Socket Connector	Machined Contacts
09 2101-0200-11	DM09-SS
15 2101-0200-12	DM15-SS
25 2101-0200-13	DM25-SS
37 2101-0200-14	DM37-SS
50	On request

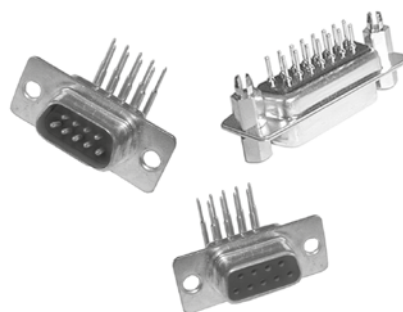
SUB-D CONNECTORS

DD-Series – PCB Mount Straight & Angled D Connectors, 9.4mm

Material Specification:

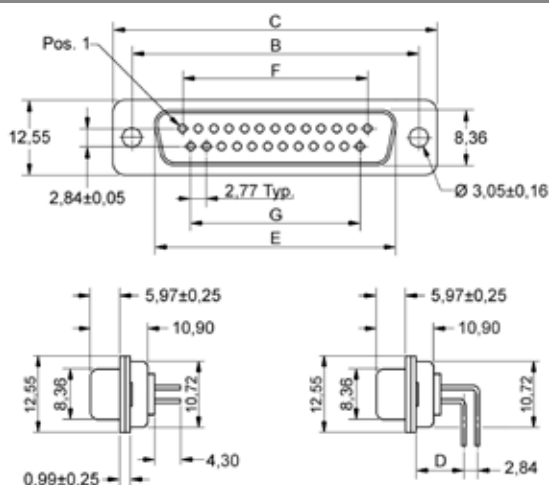
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contact pins:	Copper Alloy, Machined Class 1, 500 inserts min.
Contact Plating:	Selective Gold over Nickel
	7.2mm (RAM) available on request. Size 50 available on request.

Mounting Options: See page 60

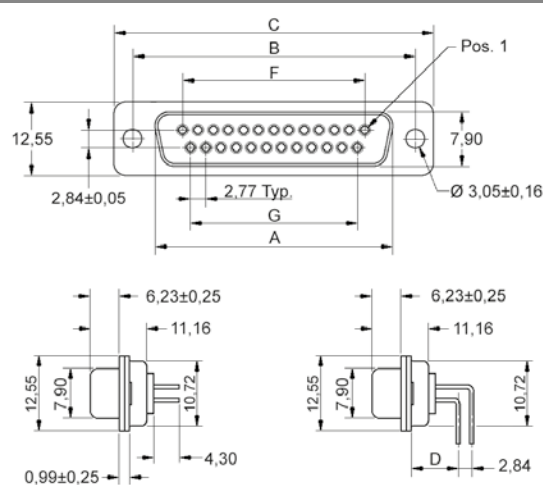


06

Plug connector



Socket connector



Size	A	B	C	D: RAM/ RBM	E	F	G
9	16,92	24,99	30,81	7,2 / 9,4	16,33	11,08	8,31
15	25,25	33,32	39,14	7,2 / 9,4	24,66	19,39	16,62
25	38,96	47,04	53,04	7,2 / 9,4	38,38	33,24	30,47
37	55,25	63,50	69,32	7,2 / 9,4	54,84	49,86	47,09
50*	Available on request						

Order Codes:

Plug Connector	Straight PCB Mount
09 2103-0100-01	DD09-M-T-B-S
15 2103-0100-02	DD15-M-T-B-S
25 2103-0100-03	DD25-M-T-B-S
37 2103-0100-04	DD37-M-T-B-S
50	On request

Plug Connector	Angled RBM (9.4mm)
09 2103-2100-01	DD09-M-T-B-S-RBM
15 2103-2100-02	DD15-M-T-B-S-RBM
25 2103-2100-03	DD25-M-T-B-S-RBM
37 2103-2100-04	DD37-M-T-B-S-RBM
50	On request

Socket Connector	Straight PCB Mount
09 2103-0100-11	DD09-F-T-B-S
15 2103-0100-12	DD15-F-T-B-S
25 2103-0100-13	DD25-F-T-B-S
37 2103-0100-14	DD37-F-T-B-S
50	On request

Socket Connector	Angled RBM (9.4mm)
09 2103-2100-11	DD09-F-T-B-S-RBM
15 2103-2100-12	DD15-F-T-B-S-RBM
25 2103-2100-13	DD25-F-T-B-S-RBM
37 2103-2100-14	DD37-F-T-B-S-RBM
50	On request

SUB-D CONNECTORS

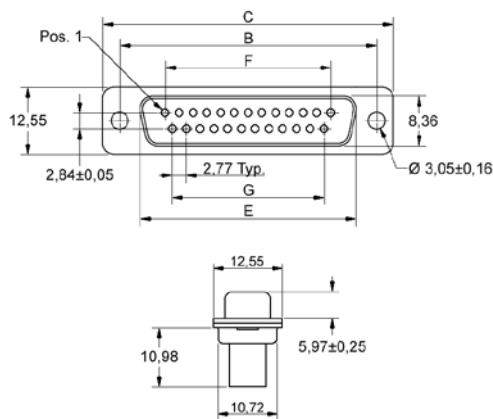
DBC-Series – D-Crimp Connectors

Material Specification:

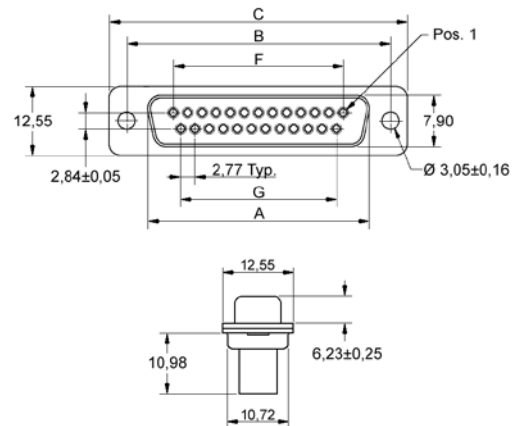
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contacts:	Copper Alloy, Stamped & Formed Pins 100 inserts min.
Contact Plating:	Selective Gold over Nickel
Mounting Options:	See page 60



Plug connector



Socket connector



Size	A	B	C	E	F	G
9	16,92	24,99	30,81	16,33	11,08	8,31
15	25,25	33,32	39,14	24,66	19,39	16,62
25	38,96	47,04	53,04	38,38	33,24	30,47
37	55,25	63,50	69,32	54,84	49,86	47,09
50*	Available on request					

Order Codes:

Plug Connector		
09	2101-0190-01	DBC09-SP
15	2101-0190-02	DBC15-SP
25	2101-0190-03	DBC25-SP
37	2101-0190-04	DBC37-SP
50	On request	

Socket Connector		
09	2101-0190-11	DBC09-SS
15	2101-0190-12	DBC15-SS
25	2101-0190-13	DBC25-SS
37	2101-0190-14	DBC37-SS
50	On request	

Order Codes - CRIMP Contacts, AWG 24-28:

Crimp Contacts on REEL - 5000pcs		
Male Contacts	2101-0199-01	DBCTMR
Female Contacts	2101-0199-11	DBCTFR

Other AWG available on request

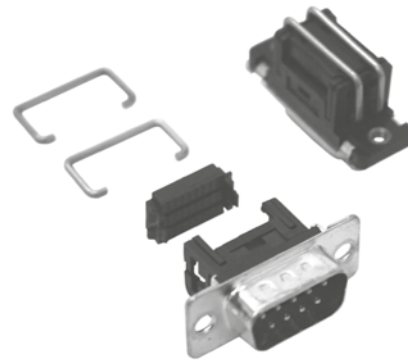


SUB-D CONNECTORS

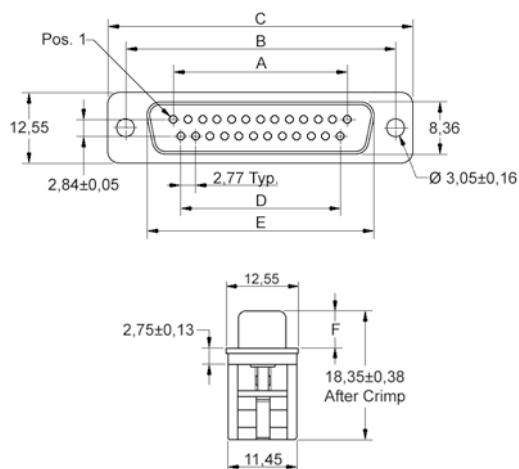
DF2-Series – Economy IDC's

Material Specification:

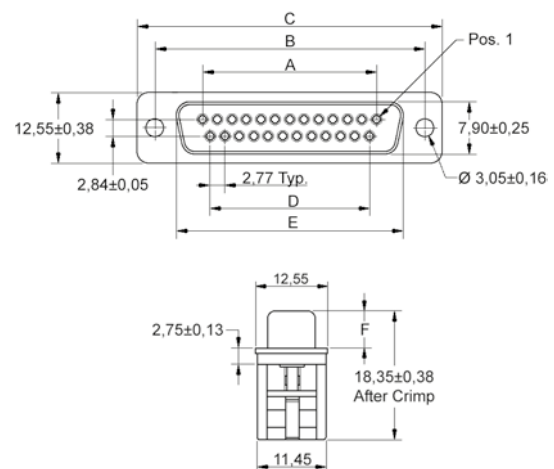
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contacts:	Phosphor Bronze, Stamped & Formed Pins 100 inserts min.
Contact Plating:	Selective Gold over Nickel
Wire Size:	AWG 26 or 28 1,27 mm conductor Centre, Flat Cable



Plug connector



Socket connector



Size	A	B	C	D	(E) Plug / Socket	(F) Plug /Socket
9	11,08	24,99	30,80	8,31	16,92 / 16,33	5,84 / 6,00
15	19,39	33,32	39,10	16,62	25,25 / 24,66	5,84 / 6,00
25	33,24	47,04	53,09	30,47	38,96 / 38,38	5,84 / 6,00
37	49,86	63,50	69,40	47,09	55,25 / 54,84	5,84 / 6,00

Order Codes:

Plug Connector	3.1 mm Thru-Holes
09 2104-0201-31	DF2-09-SP-SM
15 2104-0201-32	DF2-15-SP-SM
25 2104-0201-33	DF2-25-SP-SM
37 2104-0201-34	DF2-37-SP-SM

Plug Connector	Clinch Nuts
09 2104-0201-01	DF2-09-SP-TM
15 2104-0201-02	DF2-15-SP-TM
25 2104-0201-03	DF2-25-SP-TM
37 2104-0201-04	DF2-37-SP-TM

Socket Connector	3.1 mm Thru-Holes
09 2104-0201-41	DF2-09-SS-SM
15 2104-0201-42	DF2-15-SS-SM
25 2104-0201-43	DF2-25-SS-SM
37 2104-0201-44	DF2-37-SS-SM

Socket Connector	Clinch Nuts
09 2104-0201-11	DF2-09-SS-TM
15 2104-0201-12	DF2-15-SS-TM
25 2104-0201-13	DF2-25-SS-TM
37 2104-0201-14	DF2-37-SS-TM

SUB-D CONNECTORS

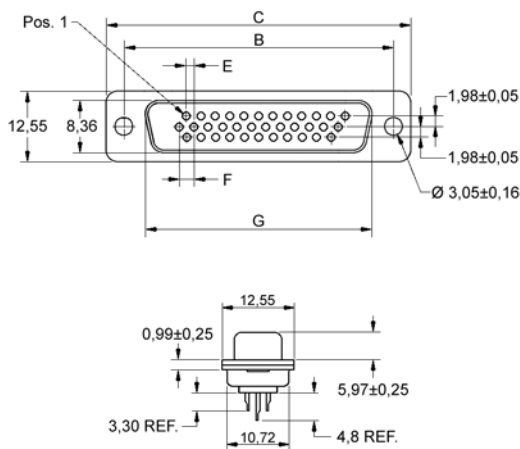
HDS-Series – Solder Cup

Material Specification:

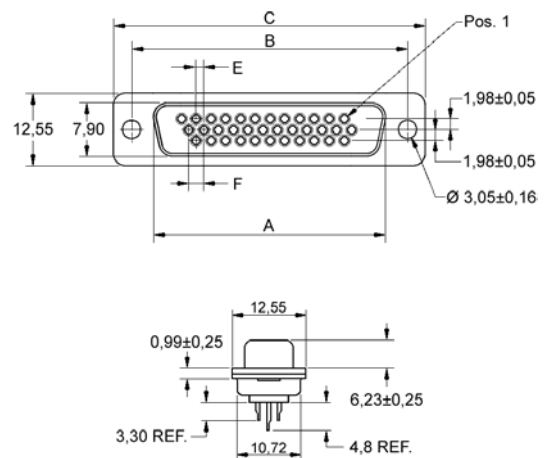
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contacts:	Stamped & Formed Pins: Copper Alloy 100 inserts min. Machined Pins: Copper Alloy 500 inserts min.
Contact Plating:	Selective Gold over Nickel
Mounting Options:	See page 60



Plug connector



Socket connector



Size	A	B	C	E	F	G
HD15	16,33	24,99	30,81	1,145	2,99	16,62
HD26	24,66	33,32	39,14	1,145	2,99	25,25
HD44	38,38	47,04	53,04	1,145	2,99	38,96
HD62	54,84	63,50	69,32	1,205	2,41	55,25

Order Codes:

Plug Connector	Stamped & Formed
15 2101-0300-01	HDS-15-M-T-B-S
26 2101-0300-02	HDS-26-M-T-B-S
44 2101-0300-03	HDS-44-M-T-B-S
62 2101-0300-04	HDS-62-M-T-B-S

Plug Connector	Machined Contacts
15 2101-0400-01	HDS-15-M-T-B-M
26 2101-0400-02	HDS-26-M-T-B-M
44 2101-0400-03	HDS-44-M-T-B-M
62 2101-0400-04	HDS-62-M-T-B-M

Socket Connector	Stamped & Formed
15 2101-0300-11	HDS-15-F-T-B-S
26 2101-0300-12	HDS-26-F-T-B-S
44 2101-0300-13	HDS-44-F-T-B-S
62 2101-0300-14	HDS-62-F-T-B-S

Socket Connector	Machined Contacts
15 2101-0400-11	HDS-15-F-T-B-M
26 2101-0400-12	HDS-26-F-T-B-M
44 2101-0400-13	HDS-44-F-T-B-M
62 2101-0400-14	HDS-62-F-T-B-M

SUB-D CONNECTORS

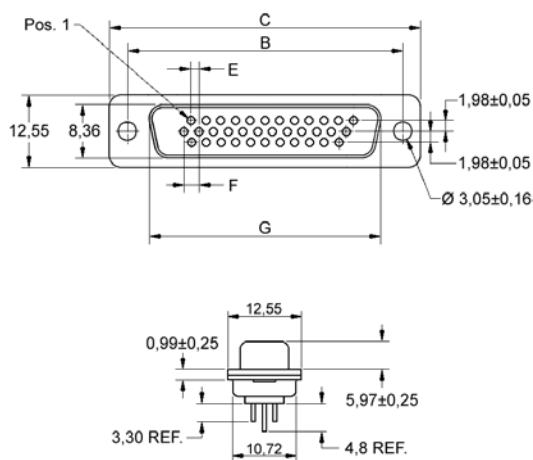
HDD-Series – DIP Solder (PCB-Type)

Material Specification:

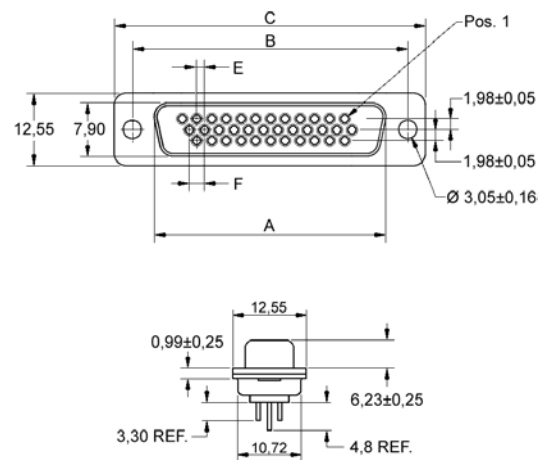
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contacts:	Stamped & Formed Pins: Copper Alloy 100 inserts min.
	Machined Pins: Copper Alloy 500 inserts min.
Contact Plating:	Selective Gold over Nickel
Mounting Options:	See page 60



Plug connector



Socket connector



Size	A	B	C	E	F	G
HD15	16,33	24,99	30,81	1,145	2,99	16,62
HD26	24,66	33,32	39,14	1,145	2,99	25,25
HD44	38,38	47,04	53,04	1,145	2,99	38,96
HD62	54,84	63,50	69,32	1,205	2,41	55,25

Order Codes:

Plug Connector	Stamped & Formed
15 2103-0300-01	HDD-15-M-T-B-S
26 2103-0300-02	HDD-26-M-T-B-S
44 2103-0300-03	HDD-44-M-T-B-S
62 2103-0300-04	HDD-62-M-T-B-S

Plug Connector	Machined Contacts
15 2103-0400-01	HDD-15-M-T-B-M
26 2103-0400-02	HDD-26-M-T-B-M
44 2103-0400-03	HDD-44-M-T-B-M
62 2103-0400-04	HDD-62-M-T-B-M

Socket Connector	Stamped & Formed
15 2103-0300-11	HDD-15-F-T-B-S
26 2103-0300-12	HDD-26-F-T-B-S
44 2103-0300-13	HDD-44-F-T-B-S
62 2103-0300-14	HDD-62-F-T-B-S

Socket Connector	Machined Contacts
15 2103-0400-11	HDD-15-F-T-B-M
26 2103-0400-12	HDD-26-F-T-B-M
44 2103-0400-13	HDD-44-F-T-B-M
62 2103-0400-14	HDD-62-F-T-B-M

SUB-D CONNECTORS

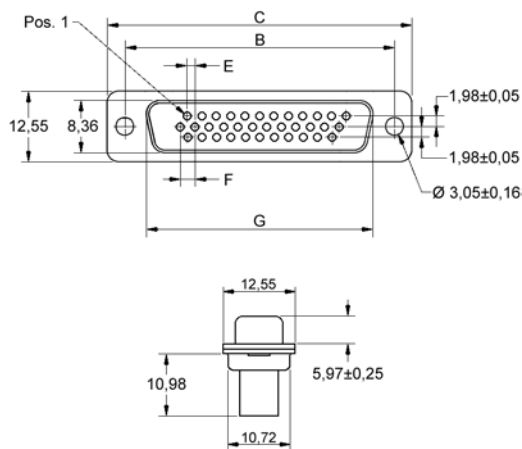
HDBC-Series – D-Crimp Connectors

Material Specification:

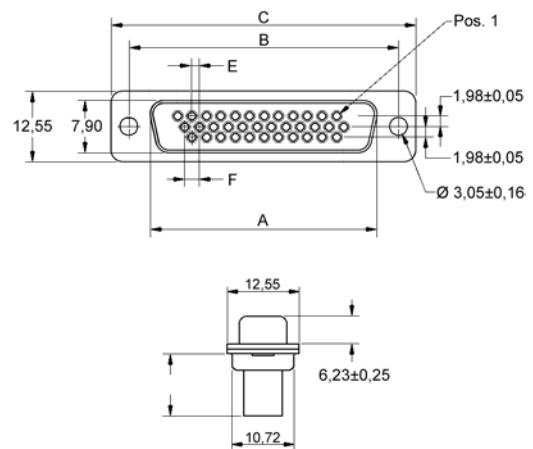
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel, Tin Plated
Contacts:	Copper Alloy, Stamped & Formed Pins 100 inserts min.
Contact Plating:	Selective Gold over Nickel
Mounting Options:	See page 60



Plug connector



Socket connector



Size	A	B	C	E	F	G
HD15	16,33	24,99	30,81	1,145	2,99	16,62
HD26	24,66	33,32	39,14	1,145	2,99	25,25
HD44	38,38	47,04	53,04	1,145	2,99	38,96
HD62	54,84	63,50	69,32	1,205	2,41	55,25

Size 78 available on request.

Order Codes:

Plug Connector

15	2101-0390-01	HDBC15-SP
26	2101-0390-02	HDBC26-SP
44	2101-0390-03	HDBC44-SP
62	2101-0390-04	HDBC62-SP

Socket Connector

15	2101-0390-11	HDBC15-SS
26	2101-0390-12	HDBC26-SS
44	2101-0390-13	HDBC44-SS
62	2101-0390-14	HDBC62-SS

Order Codes: CRIMP Contacts, AWG 24-28

Crimp Contacts on REEL - 5000pcs

Male Contacts	2101-0199-21	HDBCTMR
Female Contacts	2101-0199-31	HDBCTFR

Other AWG available on request



105-Series – IDC-Sub Connectors

Material Specification:

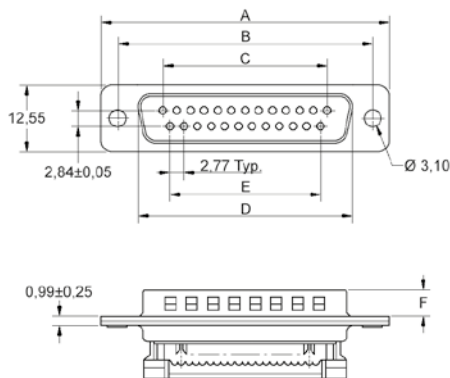
Insulator:	Glass filled Polyester, Black UL94 V-0
Shell:	Stamped Steel Tin Plated
Contacts:	Copper Alloy
Contact Plating:	1,5 micron Tin and 0,2 micron Gold

Electrical Specification:

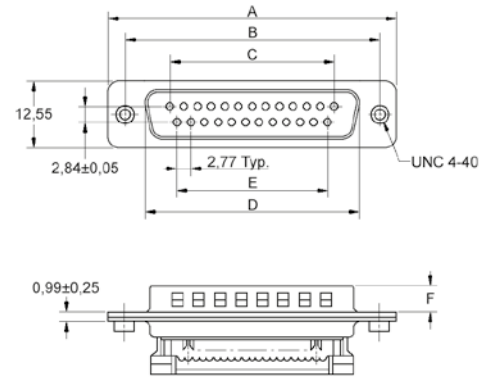
Working current:	1,5 A
Test Voltage:	1000 V
Insulation Resistance:	500 MΩ
Contact Resistance:	less than 10 mΩ
Temperature Range:	-55 to +125 °C



With 3.1 mm Thru-Holes



With Clinch Nuts



Size:	A	B	C	D (Plug/Socket)	E	F (Plug/Socket)
9	30,81	24,99	11,08	16,92 / 16,33	8,31	5,90 / 6,23
15	39,14	33,32	19,39	25,25 / 24,66	16,62	5,90 / 6,23
25	53,04	47,04	33,24	38,96 / 38,38	30,47	5,90 / 6,23
37	69,36	63,50	49,86	55,25 / 54,84	47,09	5,90 / 6,23

Order Codes:

Plug Connector	3.1 mm Thru-Holes
09 1701-0300-01	10551
15 1701-0300-02	10552
25 1701-0300-03	10553
37 1701-0300-04	10554

Plug Connector	Clinch Nuts
09 1701-0300-21	10567
15 1701-0300-22	10568
25 1701-0300-23	10569
37 1701-0300-24	10570

Socket Connector	3.1 mm Thru-Holes
09 1701-0300-11	10575
15 1701-0300-12	10576
25 1701-0300-13	10577
37 1701-0300-14	10578

Socket Connector	Clinch Nuts
09 1701-0300-31	10591
15 1701-0300-32	10592
25 1701-0300-33	10593
37 1701-0300-34	10594

Order Code - Strain Relief Bars

09 1711-0100-01	10175
15 1711-0100-02	10176
25 1711-0100-03	10177
37 1711-0100-04	10178



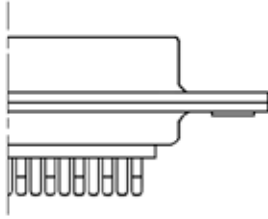
Strain Relief Bar



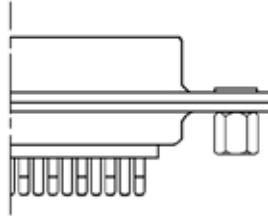
Standard IDC



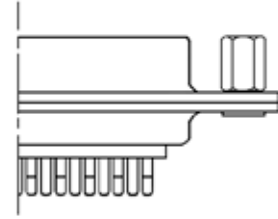
With Strain Relief Bar



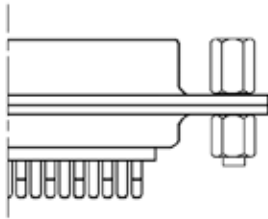
Option X (Standard)
Ø 3.05mm Holes



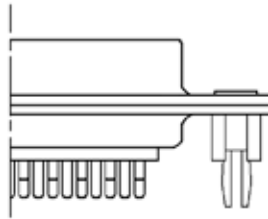
Option K
Fixed Clinch Nuts
UNC 4-40 Thread



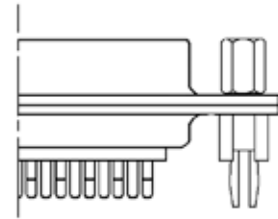
Option J
Fixed Jackscrews
UNC 4-40 Thread



Option KJ
Jackscrews and Clinch Nuts
UNC 4-40 Thread



Option BR
Riveted Brackets
UNC 4-40 Thread



Option BRJ
Riveted Brackets & Jackscrews
UNC 4-40 Thread

Series:	Mounting Options Available:
DB	X (Standard), K, J, KJ
DM	X (Standard), K, J, KJ
DBC	X (Standard), K, J, KJ
DD Stamped & Formed, Straight	X (Standard), K, J, KJ, BR, BRJ
DD Machined Pins, Straight	X (Standard), K, J, KJ
DD Machined Pins, Angled	X (Standard), K, J, KJ
HDD Stamped & Formed	X (Standard), K, J, KJ, BR, BRJ
HDD Machined Pins	X (Standard), K, J, KJ, BR, BRJ
HDS Stamped & Formed	X (Standard), K, J, KJ
HDS Machined Pins	X (Standard), K, J, KJ
HDBC	X (Standard), K, J

Technical Data**Material Specifications:**

Insulator:	Self extinguishing TP, UL94 V-0
Shell:	Steel, Tin Plated, Plug with dimples
Contacts:	Copper Alloy
Contact Plating:	Hard Gold plated over Nickel
Quality Class:	Class 2 (standard) Other on request

Electrical Specifications:

Test Voltage:	1000 V
Working Voltage:	
Standard Sub-D & IDC:	125 V
High Density Sub-D:	60 V
Current Rating:	
Standard Sub-D:	5 Amp
IDC Connector:	1 Amp
High Density Sub-D:	3 Amp
Contact Resistance:	Max. 10mΩ before strain ΔR max. 10mΩ after strain DIN 41652, part 2 (MIL-C-24308)
Insulation Resistance:	≤ 5GΩ
Clearance & Creepage distance:	
Standard Sub-D:	Contact – contact > 1.0 mm Contact – ground > 1.0 mm
High Density Sub-D:	Contact – contact > 0.6 mm Contact – ground > 0.6 mm
Operating Temperature:	– 55 to +125°C
Quality Classes:	1 – 500 mating cycles (0,8μ Au) 2 – 200 mating cycles (0,2μ Au) S – 200 mating cycles (selective Au)

High Quality Sub-D Contents:

Solder Cup	63
Solder Pin Straight (PCB)	64
Solder Pin Crooked for PCB 1.6 mm	65
Wire Wrap	66
90° Angled Solder Pin, 9.4 mm	67
90° Angled Solder Pin, 7.18 mm	68
90° Angled Solder Pin, Eurostyle, 8.4 mm	69
Crimp Connector Housings	70
Crimp Contacts	71
IDC Connectors	72
SMD Connectors, 90° Angled	73
High Density Solder Cup	76
High Density Solder Pin Straight (PCB)	77
90° Angled High Density Solder Pin, 7.9 mm	78

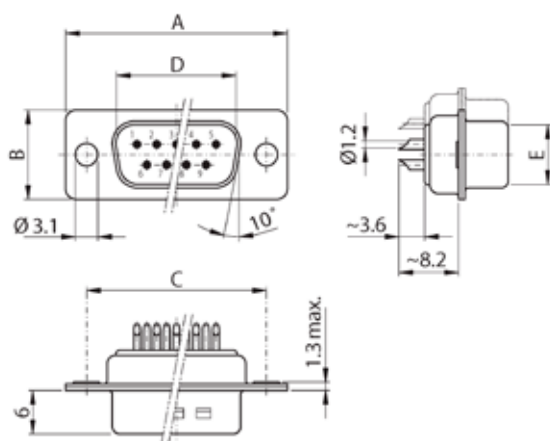
Solder cup

Machined contacts / Suitable for cable AWG 18
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

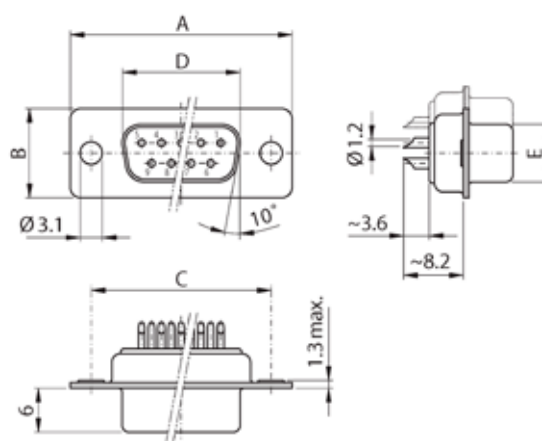


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23
50	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02
50	67.00	15.40	61.10	52.55	10.87

07

Order Codes:

Plug Connector

09	3301-0100-01
15	3301-0100-02
25	3301-0100-03
37	3301-0100-04
50	3301-0100-05

Socket Connector

09	3301-0100-11
15	3301-0100-12
25	3301-0100-13
37	3301-0100-14
50	3301-0100-15

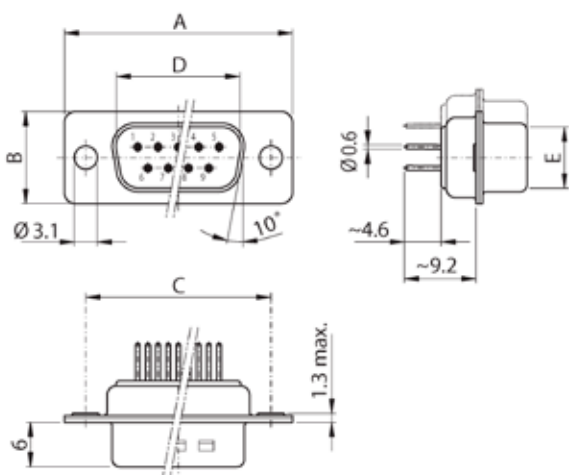
Solder pin Straight

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

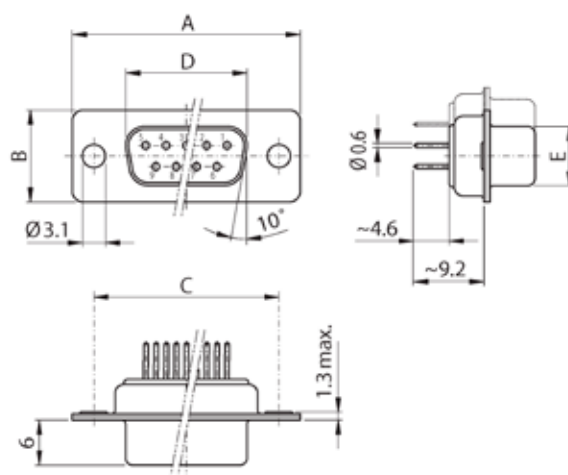


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23
50	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02
50	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

09	3301-0200-01
15	3301-0200-02
25	3301-0200-03
37	3301-0200-04
50	3301-0200-05

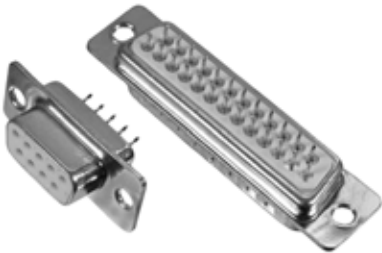
Socket Connector

09	3301-0200-11
15	3301-0200-12
25	3301-0200-13
37	3301-0200-14
50	3301-0200-15

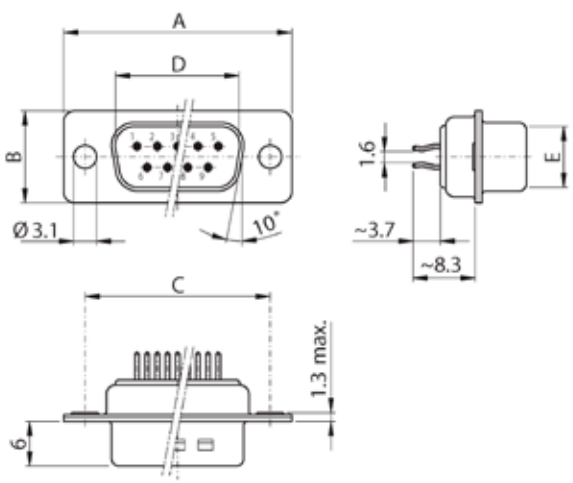
Solder pin Crooked

Machined contacts / For PCB 1.6 mm
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

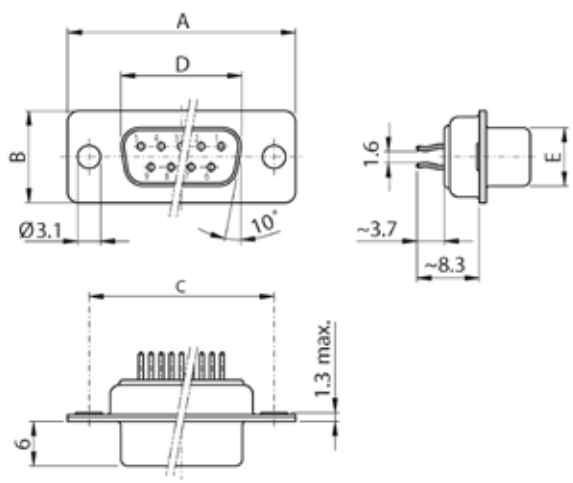


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02

07

Order Codes:

Plug Connector

09	3301-0300-01
15	3301-0300-02
25	3301-0300-03
37	3301-0300-04

Socket Connector

09	3301-0300-11
15	3301-0300-12
25	3301-0300-13
37	3301-0300-14

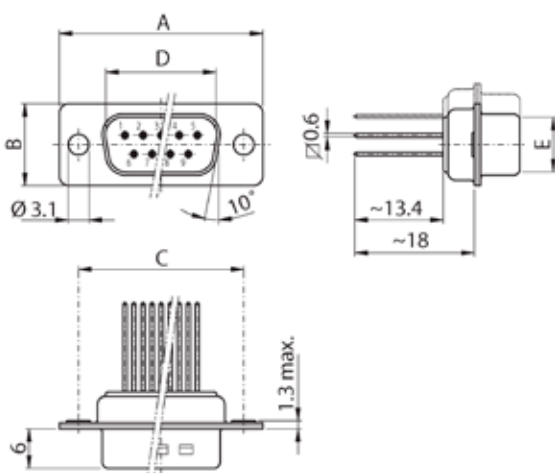
Wire Wrap

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

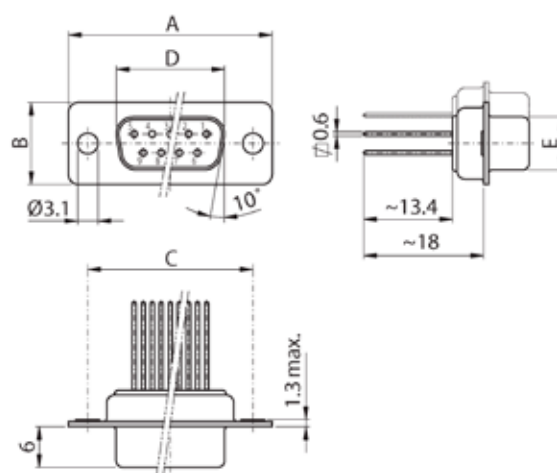


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23
50	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02
50	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

09	3302-0100-01
15	3302-0100-02
25	3302-0100-03
37	3302-0100-04
50	3302-0100-05

Socket Connector

09	3302-0100-11
15	3302-0100-12
25	3302-0100-13
37	3302-0100-14
50	3302-0100-15

SUB-D CONNECTORS

High Quality Machined Pins

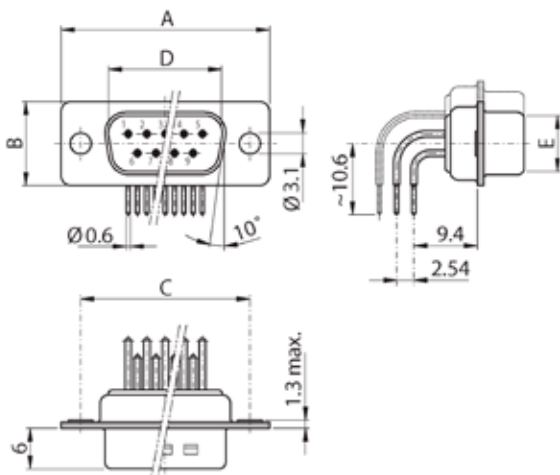
90° Angled Solder Pin, 9.4 mm

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

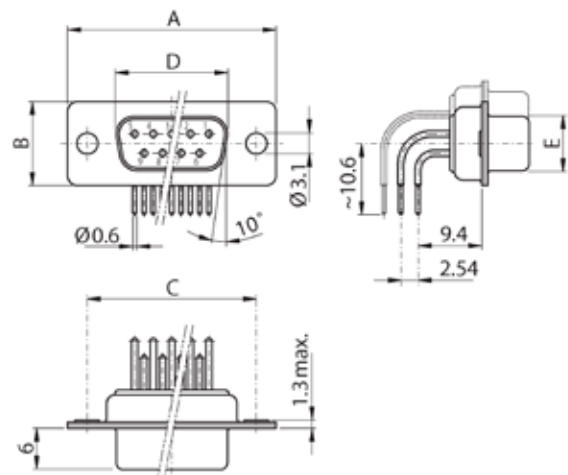


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23
50	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02
50	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

09	3301-0400-01
15	3301-0400-02
25	3301-0400-03
37	3301-0400-04
50	3301-0400-05

Socket Connector

09	3301-0400-11
15	3301-0400-12
25	3301-0400-13
37	3301-0400-14
50	3301-0400-15

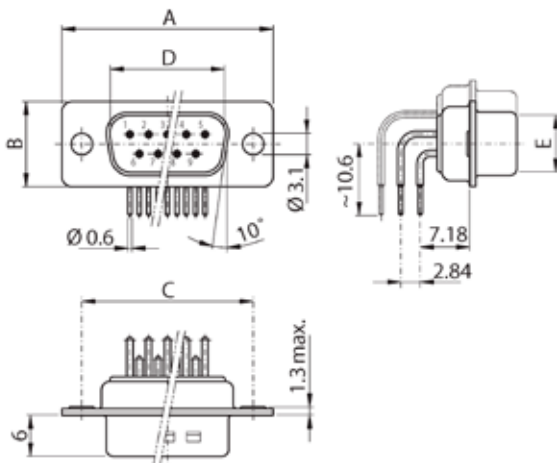
90° Angled Solder Pin, 7.18 mm

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

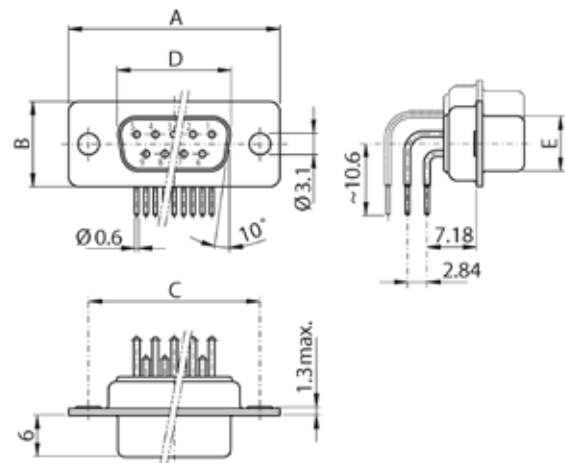


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23
50	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02
50	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

09	3301-0500-01
15	3301-0500-02
25	3301-0500-03
37	3301-0500-04
50	3301-0500-05

Socket Connector

09	3301-0500-11
15	3301-0500-12
25	3301-0500-13
37	3301-0500-14
50	3301-0500-15

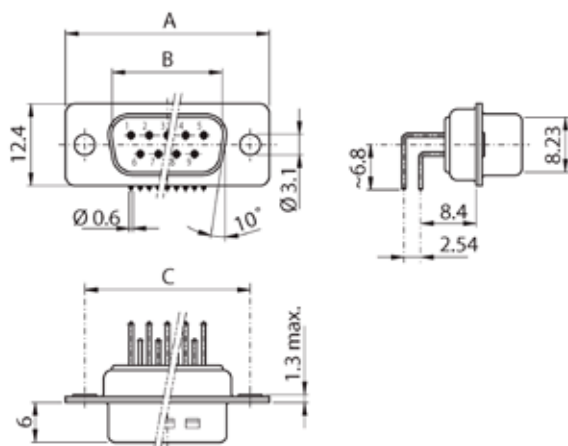
90° Angled Solder Pin, 8.4 mm

Machined contacts / Eurostyle
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

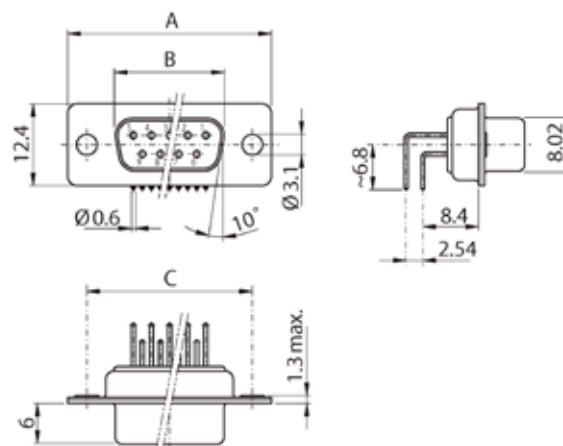


Plug connector



Size	A	B	C
09	30.80	12.40	25.00
15	39.20	12.40	33.30
25	53.10	12.40	47.00
37	69.50	12.40	63.50
50	67.00	15.40	61.10

Socket connector



Size	A	B	C
09	30.80	12.40	25.00
15	39.20	12.40	33.30
25	53.10	12.40	47.00
37	69.50	12.40	63.50
50	67.00	15.40	61.10

07

Order Codes:

Plug Connector

09	3301-0600-01
15	3301-0600-02
25	3301-0600-03
37	3301-0600-04
50	3301-0600-05

Socket Connector

09	3301-0600-11
15	3301-0600-12
25	3301-0600-13
37	3301-0600-14
50	3301-0600-15

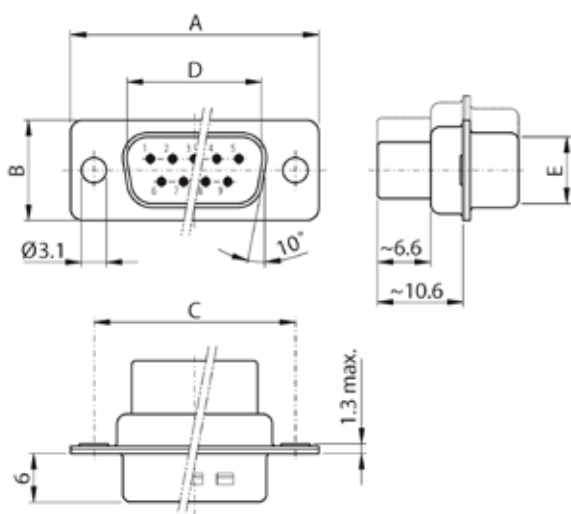
Housing for Crimp contacts

Tinned Shell as Standard
Other Plating on request.
Crimp contacts listed on following page.

Technical Information on page 62
Mounting options on page 98-106

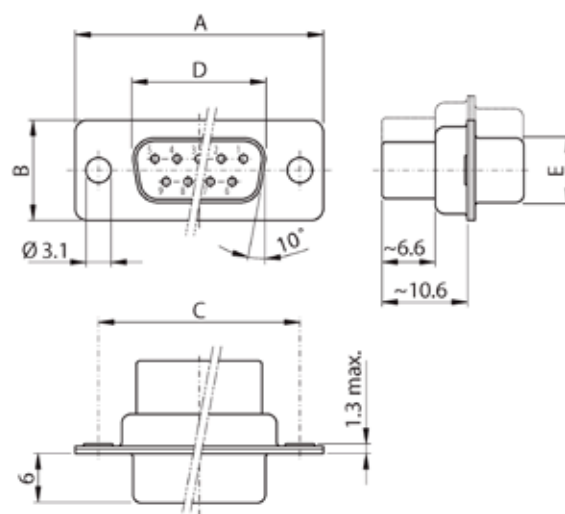


Plug connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.79	08.23
15	39.20	12.40	33.30	25.12	08.23
25	53.10	12.40	47.00	38.84	08.23
37	69.50	12.40	63.50	55.30	08.23
50	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
09	30.80	12.40	25.00	16.46	08.02
15	39.20	12.40	33.30	24.79	08.02
25	53.10	12.40	47.00	38.50	08.02
37	69.50	12.40	63.50	54.96	08.02
50	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

09	3303-0100-01
15	3303-0100-02
25	3303-0100-03
37	3303-0100-04
50	3303-0100-05

Socket Connector

09	3303-0100-11
15	3303-0100-12
25	3303-0100-13
37	3303-0100-14
50	3303-0100-15

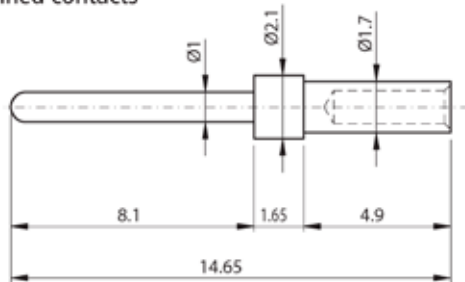
Crimp contacts

Suitable for AWG 24-20 and AWG 28-24
Class 3 as standard. Other classes on request.

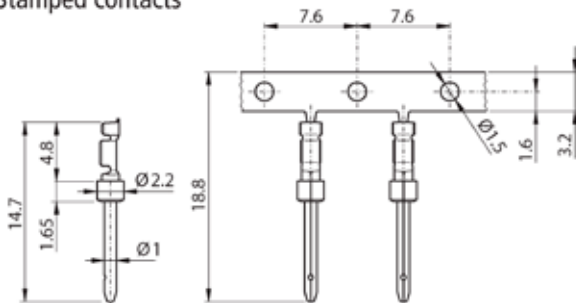


Plug connector

PX Machined contacts

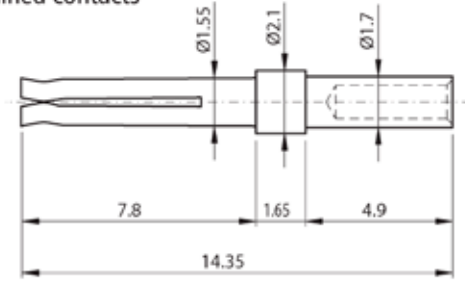


P-XA Stamped contacts

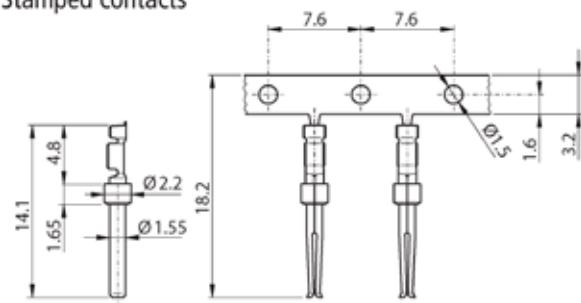


Socket connector

SX Machined contacts



S-XA Stamped contacts



07

Order Codes:

Plug Contacts, Machined

AWG 20-24	0.20–0.60 mm ²	3303-0199-21
AWG 24-28	0.08–0.20 mm ²	3303-0199-22

Socket Contacts, Machined

AWG 20-24	0.20–0.60 mm ²	3303-0199-31
AWG 24-28	0.08–0.20 mm ²	3303-0199-32

Plug Contacts, Stamped & Formed (REEL)

Size:	Direction:	Part No:
AWG 20-24	Left	3303-0199-01
AWG 20-24	Right	3303-0199-41
AWG 24-28	Left	3303-0199-02
AWG 24-28	Right	3303-0199-42

Socket Contacts, Stamped & Formed (REEL)

Size:	Direction:	Part No:
AWG 20-24	Left	3303-0199-11
AWG 20-24	Right	3303-0199-51
AWG 24-28	Left	3303-0199-12
AWG 24-28	Right	3303-0199-52

REEL: Standard 10.000 contacts, class 3

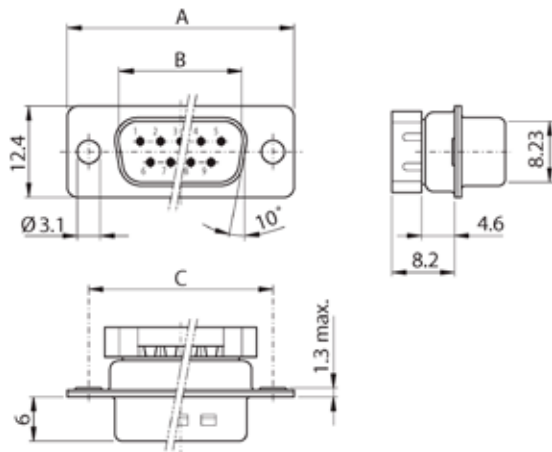
IDC Connectors (Flat Cable)

Stamped & Formed contacts, suitable for AWG 28-26
Tinned Shell as Standard
Class 3 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

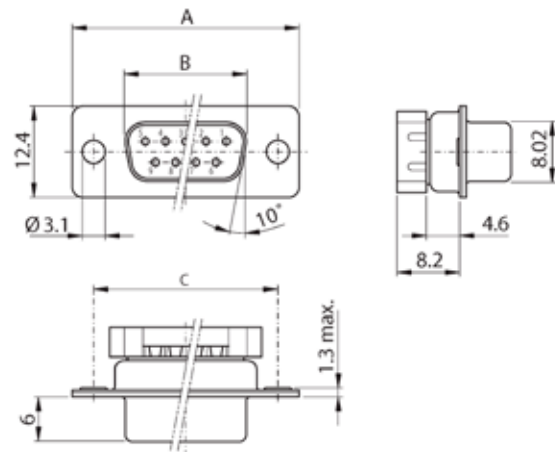


Plug connector



Size	A	B	C
09	30.80	16.79	25.00
15	39.20	25.12	33.30
25	53.10	38.84	47.00
37	69.50	55.30	63.50

Socket connector



Size	A	B	C
09	30.80	16.46	25.00
15	39.20	24.79	33.30
25	53.10	38.50	47.00
37	69.50	54.96	63.50

Order Codes:

Plug Connector

09	3304-0100-01
15	3304-0100-02
25	3304-0100-03
37	3304-0100-04

Socket Connector

09	3304-0100-11
15	3304-0100-12
25	3304-0100-13
37	3304-0100-14

Strain Relief:

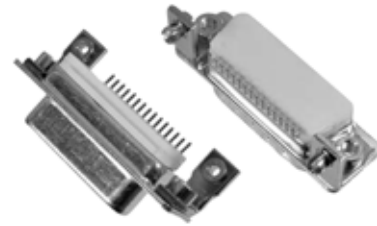
09	3304-1000-01
15	3304-1000-02
25	3304-1000-03
37	3304-1000-04



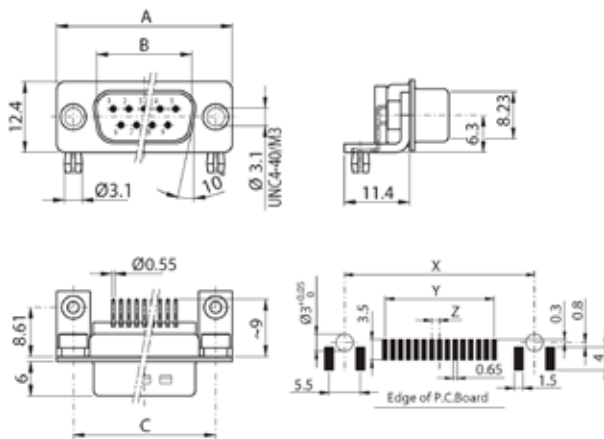
90° SMD Connectors

Machined contacts, Mounting height 6.3 mm
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62

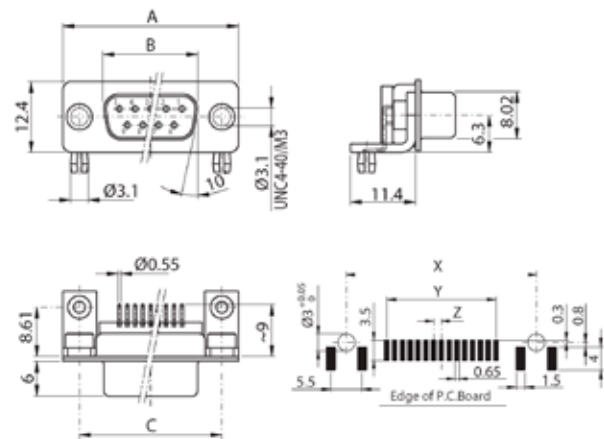


Plug connector



Size	A	B	C/X	Y	Z
09	30.80	16.79	25.00	10.98	1.37
15	39.20	25.12	33.30	19.20	1.37
25	53.10	38.84	47.00	33.12	1.38
37	69.50	55.30	63.50	49.68	1.38

Socket connector



Size	A	B	C/X	Y	Z
09	30.80	16.46	25.00	10.98	1.37
15	39.20	24.79	33.30	19.20	1.37
25	53.10	38.50	47.00	33.12	1.38
37	69.50	54.96	63.50	49.68	1.38

Order Codes:

Plug Connector

09	3320-0100-01
15	3320-0100-02
25	3320-0100-03
37	3320-0100-04

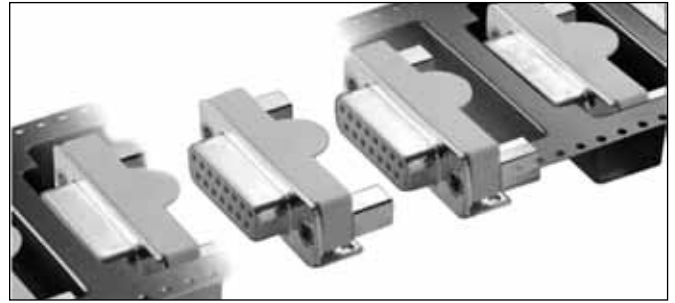
Socket Connector

09	3320-0100-11
15	3320-0100-12
25	3320-0100-13
37	3320-0100-14

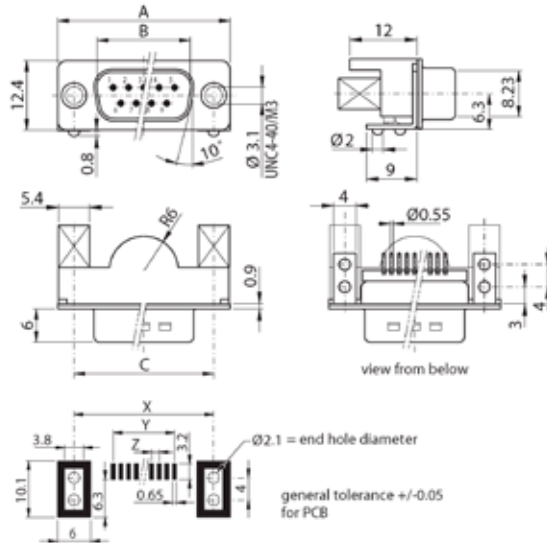
90° SMD Connectors - Tape & Reel

Machined contacts, Mounting height 6.3 mm
Tinned Shell as Standard
Class 2 connector pins as Standard
UNC 4-40 Thread type, M3 available on request.
Other Plating and/or class on request.

Technical Information on page 62

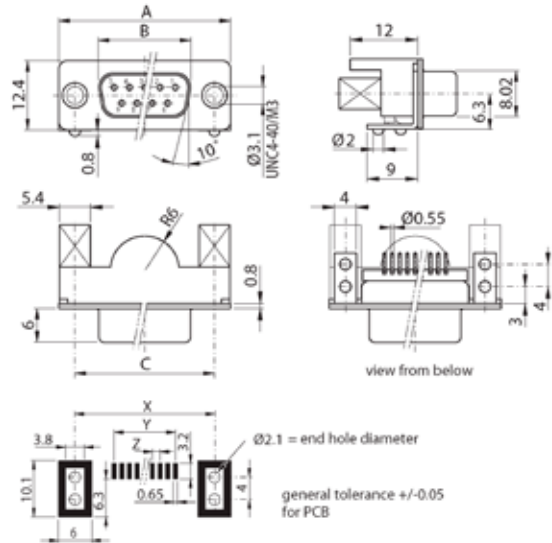


Plug connector



Size	A	B	C/X	Y	Z
09	30.80	16.79	25.00	10.98	1.37
15	39.20	25.12	33.30	19.20	1.37
25	53.10	38.84	47.00	33.12	1.38
37	69.50	55.30	63.50	49.68	1.38

Socket connector



Size	A	B	C/X	Y	Z
09	30.80	16.46	25.00	10.98	1.37
15	39.20	24.79	33.30	19.20	1.37
25	53.10	38.50	47.00	33.12	1.38
37	69.50	54.96	63.50	49.68	1.38

Order Codes:

Plug Connector

09	3320-0102-01
15	3320-0102-02
25	3320-0102-03
37	3320-0102-04

Socket Connector

09	3320-0102-11
15	3320-0102-12
25	3320-0102-13
37	3320-0102-14

Reel Outer Diameter: 330 mm
Amount of Connectors: 150 pcs / reel

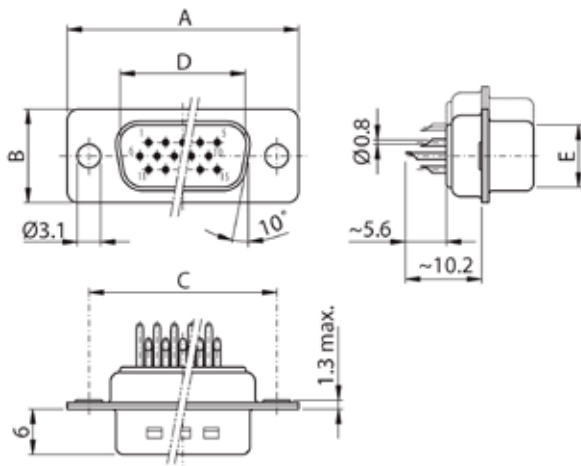
High-Density Solder Cup

Machined contacts / Suitable cable AWG 20
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

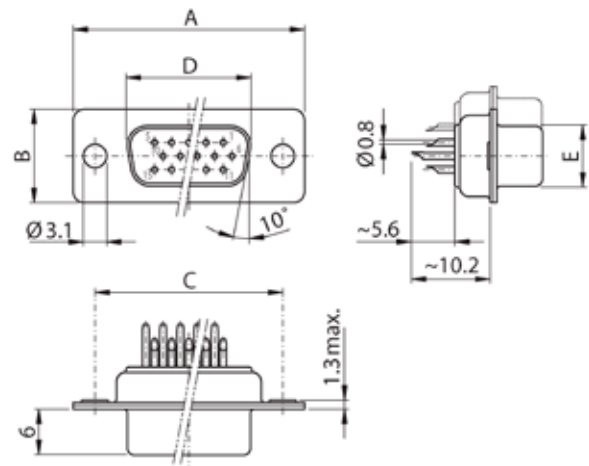


Plug connector



Size	A	B	C	D	E
15	30.80	12.40	25.00	16.79	08.23
26	39.20	12.40	33.30	25.12	08.23
44	53.10	12.40	47.00	38.84	08.23
62	69.50	12.40	63.50	55.30	08.23

Socket connector



Size	A	B	C	D	E
15	30.80	12.40	25.00	16.46	08.02
26	39.20	12.40	33.30	24.79	08.02
44	53.10	12.40	47.00	38.50	08.02
62	69.50	12.40	63.50	54.96	08.02

Order Codes:

Plug Connector

15	3301-0110-01
26	3301-0110-02
44	3301-0110-03
62	3301-0110-04

Socket Connector

15	3301-0110-11
26	3301-0110-12
44	3301-0110-13
62	3301-0110-14

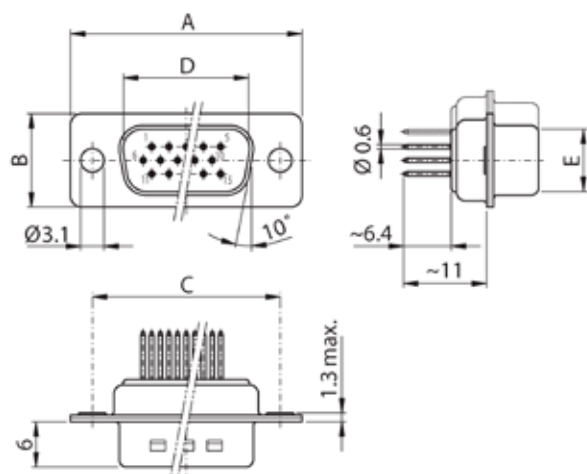
High-Density Solder Pin Straight

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

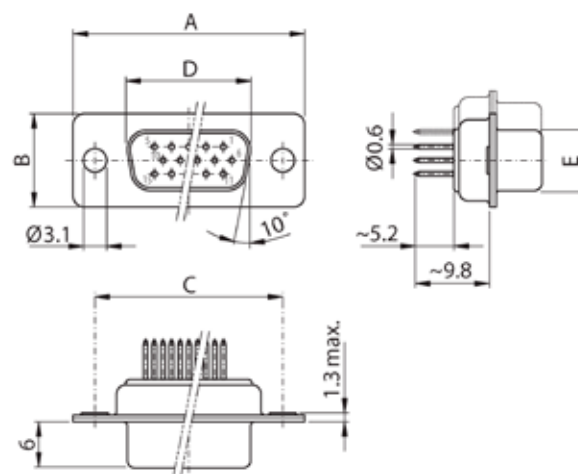


Plug connector



Size	A	B	C	D	E
15	30.80	12.40	25.00	16.79	08.23
26	39.20	12.40	33.30	25.12	08.23
44	53.10	12.40	47.00	38.84	08.23
62	69.50	12.40	63.50	55.30	08.23

Socket connector



Size	A	B	C	D	E
15	30.80	12.40	25.00	16.46	08.02
26	39.20	12.40	33.30	24.79	08.02
44	53.10	12.40	47.00	38.50	08.02
62	69.50	12.40	63.50	54.96	08.02

07

Order Codes:

Plug Connector

15	3301-0210-01
26	3301-0210-02
44	3301-0210-03
62	3301-0210-04

Socket Connector

15	3301-0210-11
26	3301-0210-12
44	3301-0210-13
62	3301-0210-14

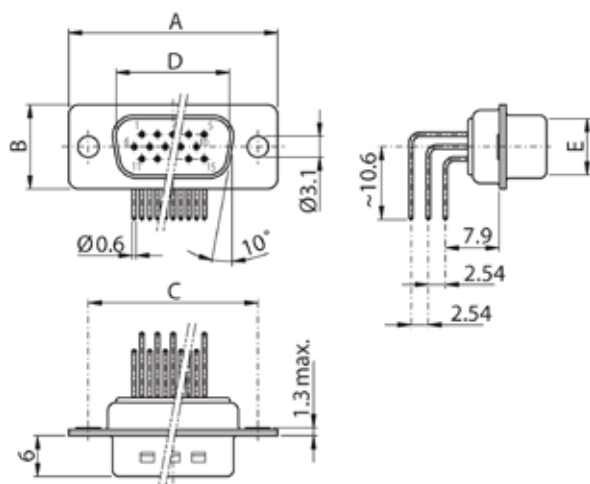
90° High-Density Solder Pin, 7.9 mm

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 62
Mounting options on page 98-106

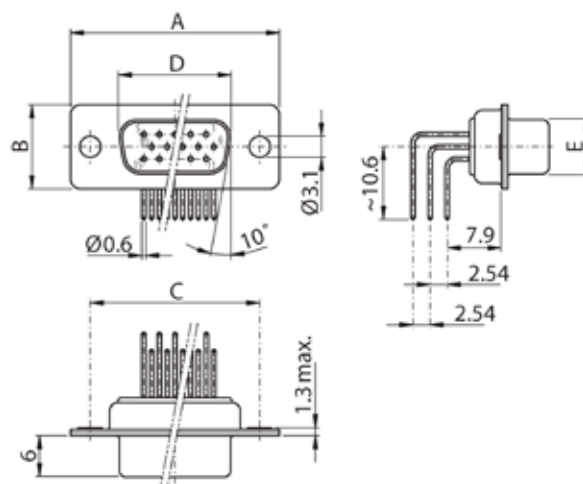


Plug connector



Size	A	B	C	D	E
15	30.80	12.40	25.00	16.79	08.23
26	39.20	12.40	33.30	25.12	08.23
44	53.10	12.40	47.00	38.84	08.23
62	69.50	12.40	63.50	55.30	08.23

Socket connector



Size	A	B	C	D	E
15	30.80	12.40	25.00	16.46	08.02
26	39.20	12.40	33.30	24.79	08.02
44	53.10	12.40	47.00	38.50	08.02
62	69.50	12.40	63.50	54.96	08.02

Order Codes:

Plug Connector

15	3301-0310-01
26	3301-0310-02
44	3301-0310-03
62	3301-0310-04

Socket Connector

15	3301-0310-11
26	3301-0310-12
44	3301-0310-13
62	3301-0310-14

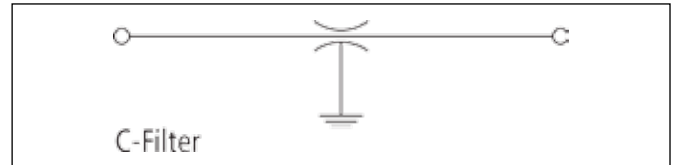
Introduction to Filter Connectors

Filter Connectors are available in FP, FT & PI versions.

FP: Planar Filter Type

FT: Tubular Type

PI: Pi Tubular Filter Type - On request



Our Filter Connectors are especially designed for Industrial Applications. They provide excellent protection against EMI/RFI. By using standard components - a cost effective production can be achieved as well as 100% compatibility with equivalent products according to DIN 41652, ML-C-24308 and IEC 807F-2.

Planar Filter Types (FP) are equipped with planar chip capacitors. (ceramic material X7R).

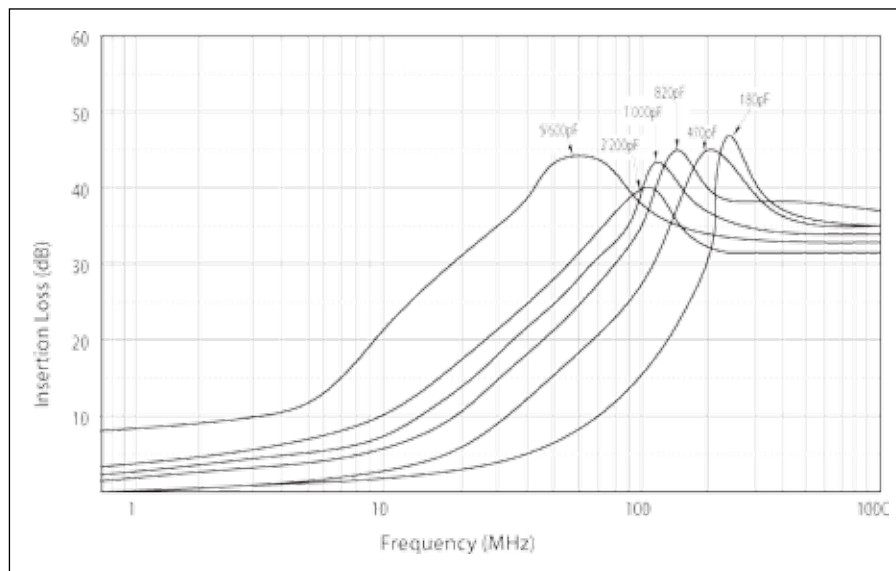
Tubular Filter Types (FT) are equipped with tubular ceramic capacitors. (ceramic material X7R).

Pi Tubular Filter Types (PI) are equipped with Pi Tubular capacitors.

These capacitors are metalized on the back side to guarantee a high HF-tightness.

Standard value is 1000pF, but other values can be supplied upon request.

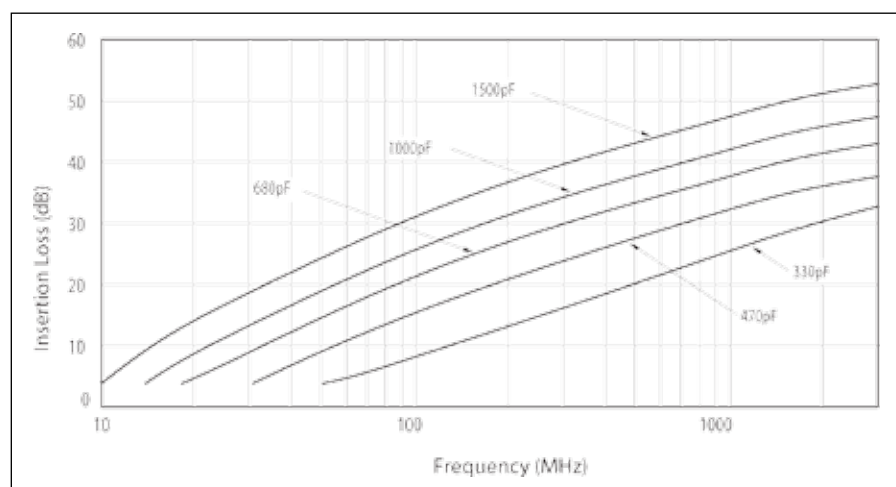
Attenuation characteristics - FP



Technical Data (FP)

Insulator:	UL 94 V-0 Thermoplastic
Contacts:	Copper Alloy
Plating:	Hard Gold over Nickel
Shell:	Steel, Tin plated
Test Voltage V.r.m.s./NM:	250V DC
Working Voltage:	100V DC
Current Rating:	5A (20°C)
Contact Resistance:	max 10mΩ before strain ΔR max 10mΩ after strain
Insulation Resistance:	≥ 5GΩ at 100V DC
Clearance & Creepage:	contact-contact > 1.0mm contact-ground > 1.0mm
Operating Temperature:	-55°C to +125°C

Attenuation characteristics - FT



Technical Data (FT)

Insulator:	UL 94 V-0 Thermoplastic
Contacts:	Copper Alloy
Plating:	Hard Gold over Nickel
Shell:	Steel, Tin plated
Test Voltage V.r.m.s./NM:	250V DC
Working Voltage:	100V DC
Current Rating:	5A (20°C)
Contact Resistance:	max 10mΩ before strain ΔR max 10mΩ after strain
Insulation Resistance:	≥ 1GΩ at 100V DC
Clearance & Creepage:	contact-contact > 1.0mm contact-ground > 1.0mm
Operating Temperature:	-55°C to +125°C

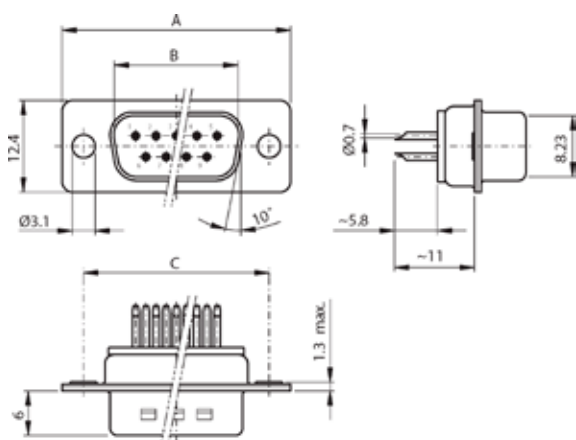
Solder cup (FP)

Machined contacts / Suitable for cable AWG 22
Tinned Shell as Standard
Class 2 connector pins as Standard
Other class on request.
1000pF as standard. Other on request.

Technical Information on page 79
Mounting options on page 98-106

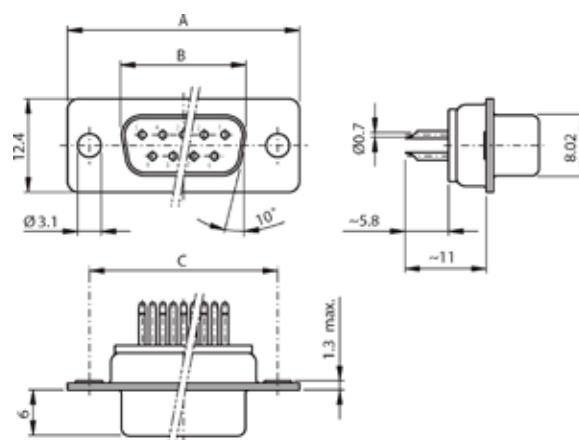


Plug connector



Size	A	B	C
09	30.80	16.79	25.00
15	39.20	25.12	33.30
25	53.10	38.84	47.00
37	69.50	55.30	63.50

Socket connector



Size	A	B	C
09	30.80	16.46	25.00
15	39.20	24.79	33.30
25	53.10	38.50	47.00
37	69.50	54.96	63.50

Order Codes:

Plug Connector	
09	3305-0100-01
15	3305-0100-02
25	3305-0100-03
37	3305-0100-04

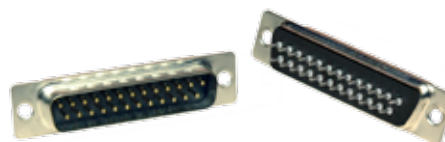
Socket Connector	
09	3305-0100-11
15	3305-0100-12
25	3305-0100-13
37	3305-0100-14

Solder Pin, Straight (FP)

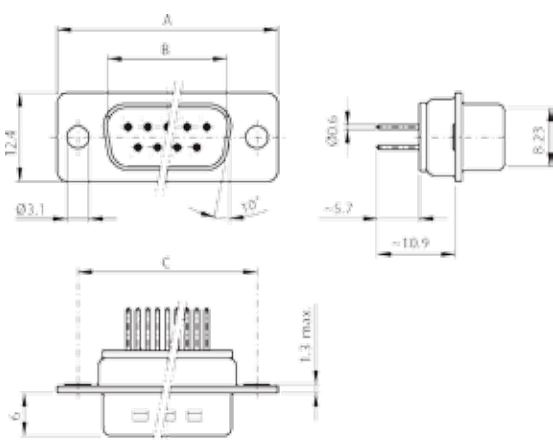
Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other class on request.
1000pF as standard. Other on request.

Available in Tubular- or Pi Tubular Filter Type
(FT/PI) on request.

Technical Information on page 79
Mounting options on page 98-106

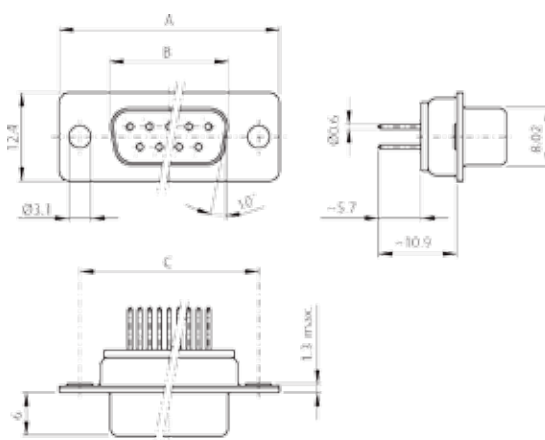


Plug connector



Size	A	B	C
09	30.80	16.79	25.00
15	39.20	25.12	33.30
25	53.10	38.84	47.00
37	69.50	55.30	63.50

Socket connector



Size	A	B	C
09	30.80	16.46	25.00
15	39.20	24.79	33.30
25	53.10	38.50	47.00
37	69.50	54.96	63.50

Order Codes:

Plug Connector	
09	3305-0200-01
15	3305-0200-02
25	3305-0200-03
37	3305-0200-04

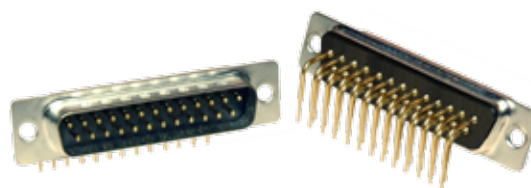
Socket Connector	
09	3305-0200-11
15	3305-0200-12
25	3305-0200-13
37	3305-0200-14

Solder Pin, Angled 9.4 mm (FP)

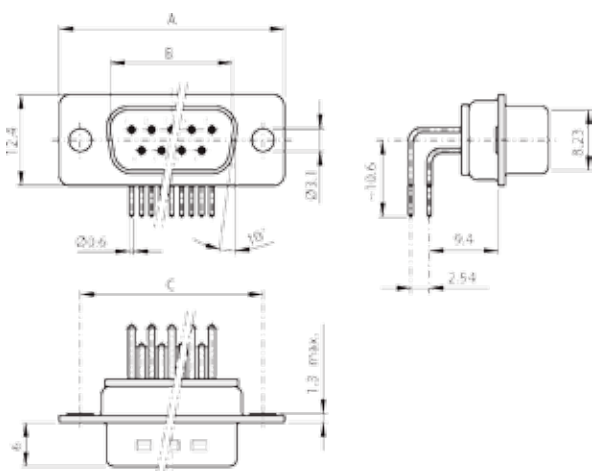
Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other class on request.
1000pF as standard. Other on request.

Available in Tubular Filter Type (FT) on request.

Technical Information on page 79
Mounting options on page 98-106

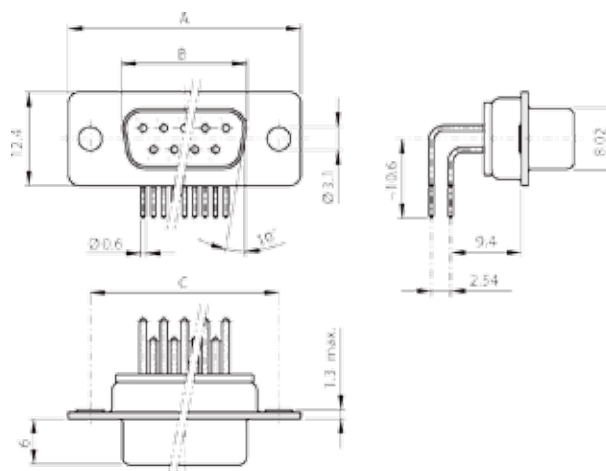


Plug connector



Size	A	B	C
09	30.80	16.79	25.00
15	39.20	25.12	33.30
25	53.10	38.84	47.00
37	69.50	55.30	63.50

Socket connector



Size	A	B	C
09	30.80	16.46	25.00
15	39.20	24.79	33.30
25	53.10	38.50	47.00
37	69.50	54.96	63.50

Order Codes:

Plug Connector	
09	3305-0300-01
15	3305-0300-02
25	3305-0300-03
37	3305-0300-04

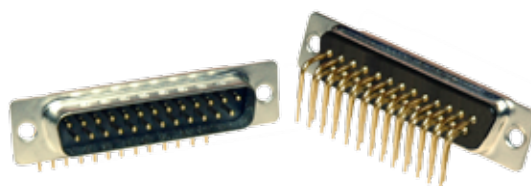
Socket Connector	
09	3305-0300-11
15	3305-0300-12
25	3305-0300-13
37	3305-0300-14

Solder Pin, Angled 7.18 mm (FP)

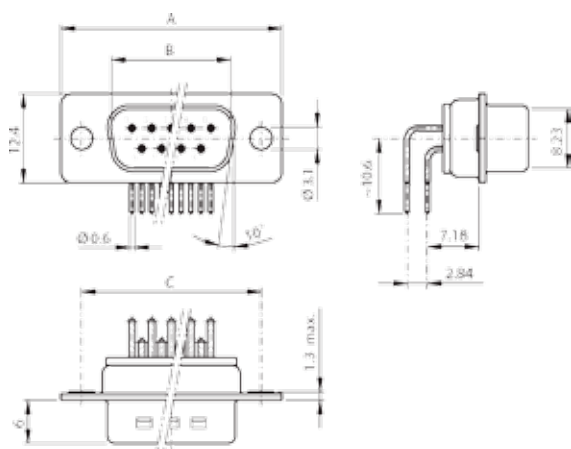
Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other class on request.
1000pF as standard. Other on request.

Available in Tubular Filter Type (FT) on request.

Technical Information on page 79
Mounting options on page 98-106

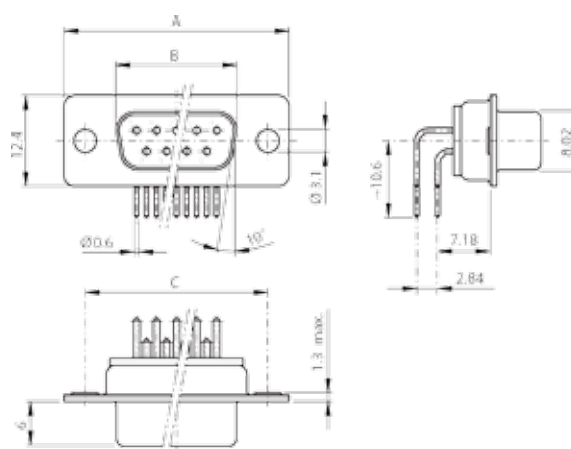


Plug connector



Size	A	B	C
09	30.80	16.79	25.00
15	39.20	25.12	33.30
25	53.10	38.84	47.00
37	69.50	55.30	63.50

Socket connector



Size	A	B	C
09	30.80	16.46	25.00
15	39.20	24.79	33.30
25	53.10	38.50	47.00
37	69.50	54.96	63.50

Order Codes:

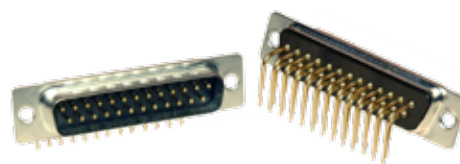
Plug Connector	
09	3305-0400-01
15	3305-0400-02
25	3305-0400-03
37	3305-0400-04

Socket Connector	
09	3305-0400-11
15	3305-0400-12
25	3305-0400-13
37	3305-0400-14

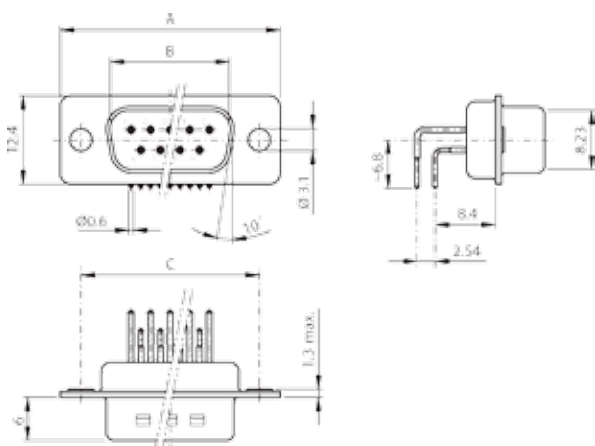
Solder Pin, 8.4 mm (FP)

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other class on request.
1000pF as standard. Other on request.

Technical Information on page 79
Mounting options on page 98-106

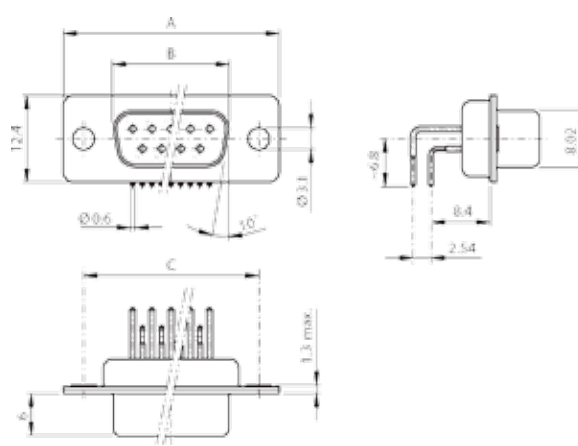


Plug connector



Size	A	B	C
09	30.80	16.79	25.00
15	39.20	25.12	33.30
25	53.10	38.84	47.00
37	69.50	55.30	63.50

Socket connector



Size	A	B	C
09	30.80	16.46	25.00
15	39.20	24.79	33.30
25	53.10	38.50	47.00
37	69.50	54.96	63.50

Order Codes:

Plug Connector

09	3305-0500-01
15	3305-0500-02
25	3305-0500-03
37	3305-0500-04

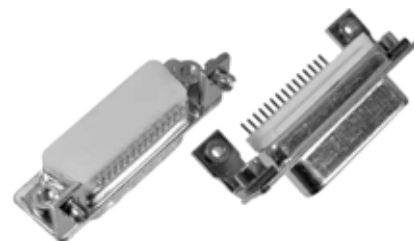
Socket Connector

09	3305-0500-11
15	3305-0500-12
25	3305-0500-13
37	3305-0500-14

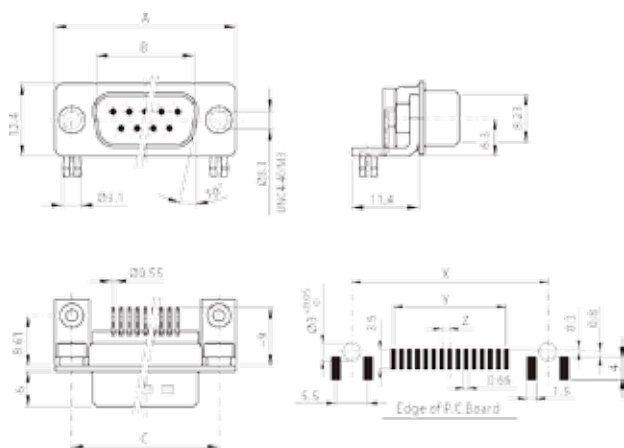
SMD Connectors, 6.3 mm (FP)

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other class on request.
1000pF as standard. Other on request.

Technical Information on page 79

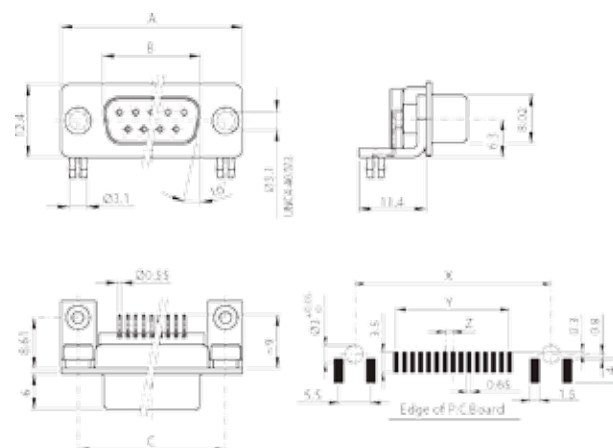


Plug connector



Size	A	B	C/X	Y	Z
09	30.80	16.79	25.00	10.98	01.37
15	39.20	25.12	33.30	19.20	01.37
25	53.10	38.84	47.00	33.12	01.38
37	69.50	55.30	63.50	49.68	01.38

Socket connector



Size	A	B	C/X	Y	Z
09	30.80	16.46	25.00	10.98	01.37
15	39.20	24.79	33.30	19.20	01.37
25	53.10	38.50	47.00	33.12	01.38
37	69.50	54.96	63.50	49.68	01.38

08

Order Codes:

Plug Connector

09	3305-0600-01
15	3305-0600-02
25	3305-0600-03
37	3305-0600-04

Socket Connector

09	3305-0600-11
15	3305-0600-12
25	3305-0600-13
37	3305-0600-14

Standard Connectors are supplied with Metal bracket including P.o.F. and with UNC 4-40 threaded Insert.

For other Thread - please contact your local MH Office.

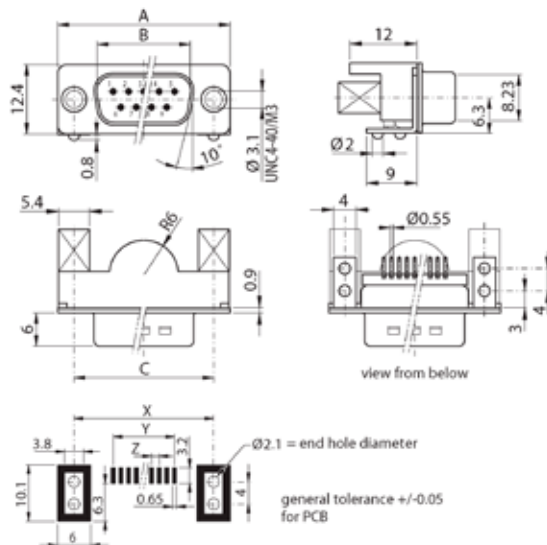
90° SMD Connectors - Tape & Reel

Machined contacts, Mounting height 6.3 mm
Tinned Shell as Standard
Class 2 connector pins as Standard
UNC 4-40 Thread type, M3 available on request.
Other Plating and/or class on request.
1000pF as standard. Other on request.

Technical Information on page 79

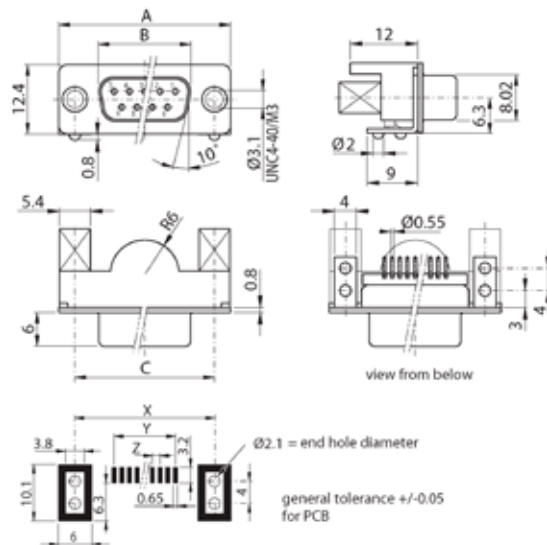


Plug connector



Size	A	B	C/X	Y	Z
09	30.80	16.79	25.00	10.98	1.37
15	39.20	25.12	33.30	19.20	1.37
25	53.10	38.84	47.00	33.12	1.38
37	69.50	55.30	63.50	49.68	1.38

Socket connector



Size	A	B	C/X	Y	Z
09	30.80	16.46	25.00	10.98	1.37
15	39.20	24.79	33.30	19.20	1.37
25	53.10	38.50	47.00	33.12	1.38
37	69.50	54.96	63.50	49.68	1.38

Order Codes:

Plug Connector

09	3305-0700-01
15	3305-0700-02
25	3305-0700-03
37	3305-0700-04

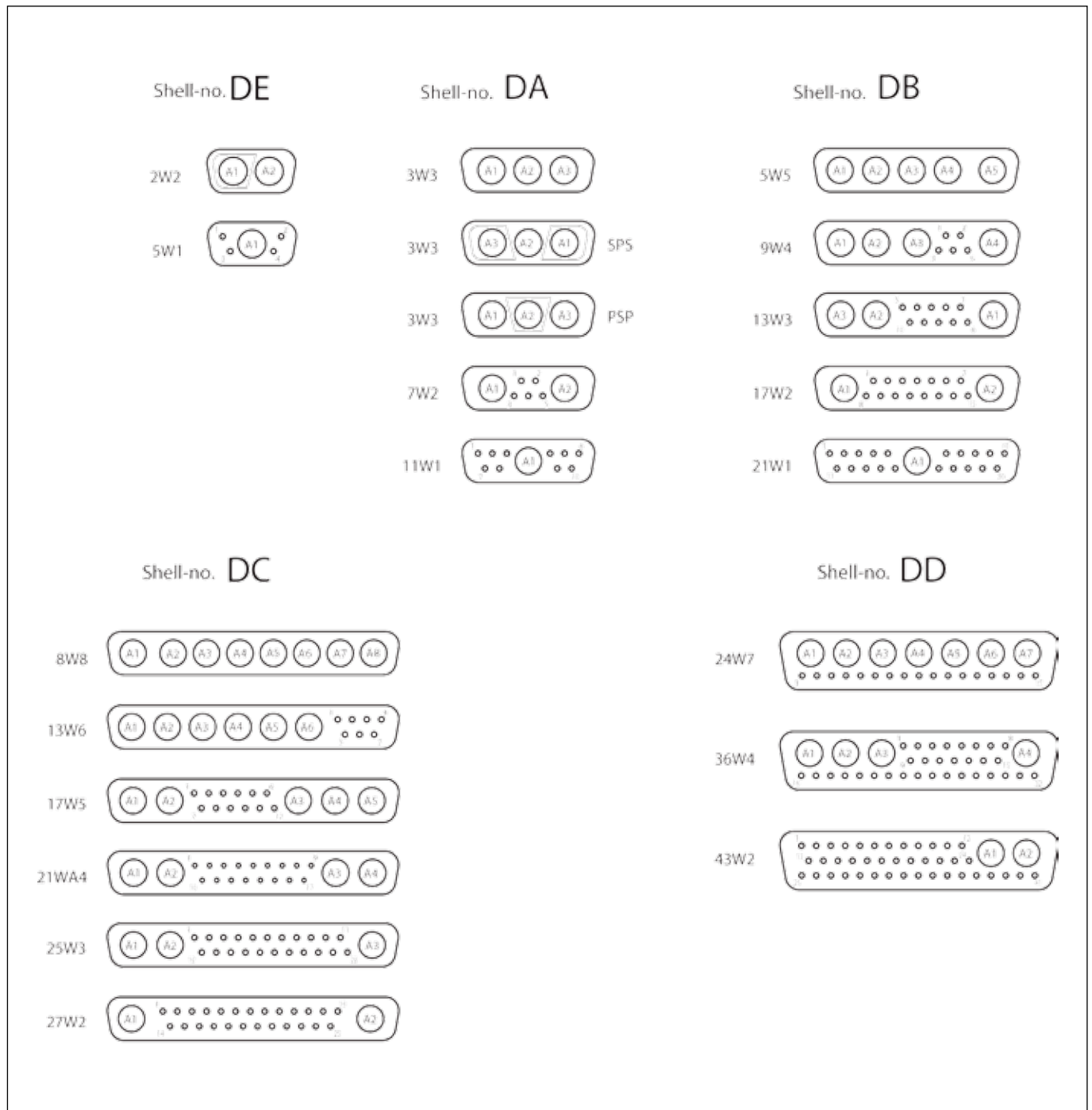
Socket Connector

09	3305-0700-11
15	3305-0700-12
25	3305-0700-13
37	3305-0700-14

Reel Outer Diameter: 330 mm
Amount of Connectors: 150 pcs / reel

Introduction to Combo Connectors

All Contact arrangements apply to Plug Connectors. When using Socket - Hole pattern must be mirrored.



Introduction to Combo Connectors

Technical Data - Housings + Contacts

Insulator:	UL94 V-0 Thermoplastic
Contacts:	Copper Alloy
Contact Plating:	Hard Gold over Nickel
Shell:	Steel, Tin plated
Test Voltage V.r.m.s./NM:	1000V
Working Voltage:	125V
Current Rating:	5A (20°C)
Contact Resistance:	max 10mΩ before strain ΔR max. 10mΩ after strain DIN 41652, part 2 (MIL-C-24308)
Insulation Resistance:	≥ 5GΩ
Clearance & Creepage:	contact-contact >1.0 mm contact-ground >1.0 mm
Operating Temperature:	-55°C to +125°C

Technical Data - Coax & Power Contacts

Contact material:	Copper Alloy
Contact plating:	Gold over Nickel

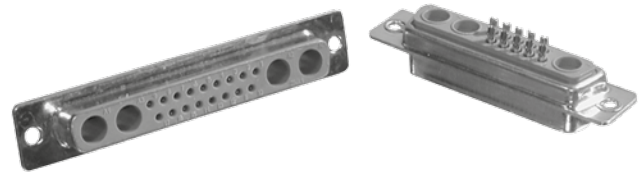
	COAX Contacts	High Volt. Contacts	High Power Contacts		
			AWG 16	AWG 12	AWG 8
Insulator Material:	Teflon	Polyamide	–	–	–
Temperature range per DIN	-55°C / +150°C				
Test Voltage	1000V rms	2800V rms	1000V rms		
Contact Rating (25°C)	5A	5A	10A	20A	40A
Insulation Resistance	5000 MΩ	5000 MΩ	–	–	–
Wave Impedance ¹⁾	50 Ω	–	–	–	–
Frequency ¹⁾	0-2 GHz	–	–	–	–
Standard Wave Ratio max. ¹⁾	1,2	–	–	–	–
Attenuation max. ¹⁾	0,2 dB	–	–	–	–
Mating & Separation Force	7 N	3 N	5 N	5 N	5 N
Mating Cycle min.	250				
Contact retention Force min.	40 N				

¹⁾ Standard Value

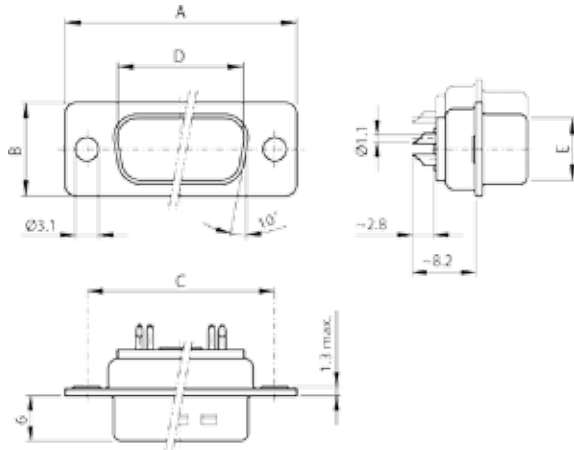
Solder Cup

Machined contacts / AWG 18
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 88-89
Mounting options on page 98-106

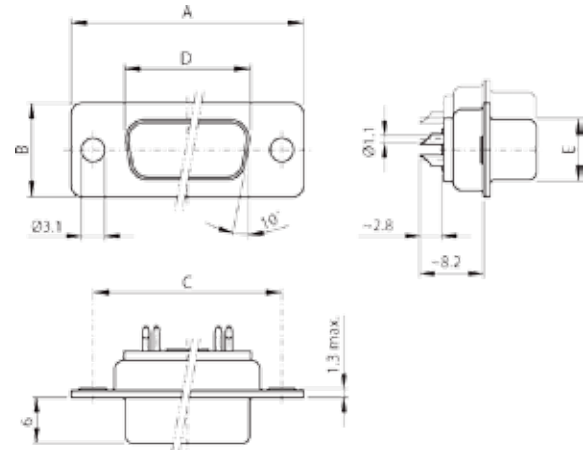


Plug connector



Size	A	B	C	D	E
DE	30.80	12.40	25.00	16.79	08.23
DA	39.20	12.40	33.30	25.12	08.23
DB	53.10	12.40	47.00	38.84	08.23
DC	69.50	12.40	63.50	55.30	08.23
DD	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
DE	30.80	12.40	25.00	16.46	08.02
DA	39.20	12.40	33.30	24.79	08.02
DB	53.10	12.40	47.00	38.50	08.02
DC	69.50	12.40	63.50	54.96	08.02
DD	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

No. Pos:	Special Contacts	Name:	Part No:
05	1	DTS 5W1 PZ	3310-0100-01
02	2	DTS 2W2 PS	3310-0100-02
03	3	DTS 3W3 P	3310-0101-01
03	3	DTS 3W3 PSP	3310-0101-02
07	2	DTS 7W2 PZ	3310-0101-03
11	1	DTS 11W1 PZ	3310-0101-04
05	5	DTS 5W5 P	3310-0102-01
09	4	DTS 9W4 PZ	3310-0102-02
13	3	DTS 13W3 PZ	3310-0102-03
17	2	DTS 17W2 PZ	3310-0102-04
21	1	DTS 21W1 PZ	3310-0102-05
08	8	DTS 8W8 P	3310-0103-01
13	6	DTS 13W6 PZ	3310-0103-02
17	5	DTS 17W5 PZ	3310-0103-03
21	4	DTS 21WA8 PZ	3310-0103-04
25	3	DTS 25W3 PZ	3310-0103-05
27	2	DTS 27W2 PZ	3310-0103-06
24	7	DTS 24W7 PZ	3310-0104-01
36	4	DTS 36W4 PZ	3310-0104-02
43	2	DTS 43W2 PZ	3310-0104-03

Socket Connector

No. Pos:	Special Contacts	Name:	Part No:
05	1	DTS 5W1 SZ	3310-0100-11
02	2	DTS 2W2 SP	3310-0100-12
03	3	DTS 3W3 S	3310-0101-11
03	3	DTS 3W3 SPS	3310-0101-12
07	2	DTS 7W2 SZ	3310-0101-13
11	1	DTS 11W1 SZ	3310-0101-14
05	5	DTS 5W5 S	3310-0102-11
09	4	DTS 9W4 SZ	3310-0102-12
13	3	DTS 13W3 SZ	3310-0102-13
17	2	DTS 17W2 SZ	3310-0102-14
21	1	DTS 21W1 SZ	3310-0102-15
08	8	DTS 8W8 S	3310-0103-11
13	6	DTS 13W6 SZ	3310-0103-12
17	5	DTS 17W5 SZ	3310-0103-13
21	4	DTS 21WA8 SZ	3310-0103-14
25	3	DTS 25W3 SZ	3310-0103-15
27	2	DTS 27W2 SZ	3310-0103-16
24	7	DTS 24W7 SZ	3310-0104-11
36	4	DTS 36W4 SZ	3310-0104-12
43	2	DTS 43W2 SZ	3310-0104-13

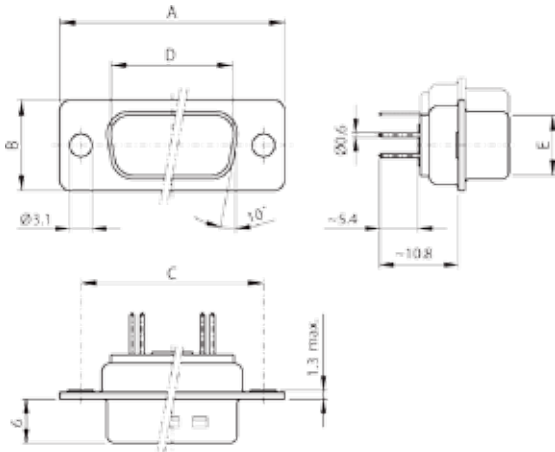
Solder Pin, Straight

Machined contacts
Tinned Shell as Standard
Class 2 connector pins as Standard
Other Plating and/or class on request.

Technical Information on page 88-89
Mounting options on page 98-106

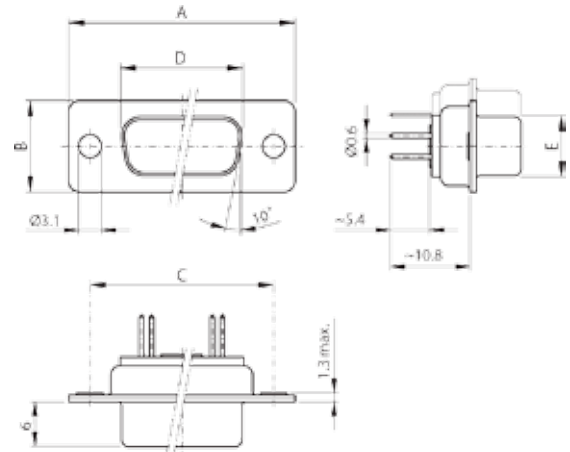


Plug connector



Size	A	B	C	D	E
DE	30.80	12.40	25.00	16.79	08.23
DA	39.20	12.40	33.30	25.12	08.23
DB	53.10	12.40	47.00	38.84	08.23
DC	69.50	12.40	63.50	55.30	08.23
DD	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
DE	30.80	12.40	25.00	16.46	08.02
DA	39.20	12.40	33.30	24.79	08.02
DB	53.10	12.40	47.00	38.50	08.02
DC	69.50	12.40	63.50	54.96	08.02
DD	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

No. Pos:	Special Contacts	Name:	Part No:
05	1	DTS 5W1 PY	3310-0200-01
02	2	DTS 2W2 PS	3310-0100-02
03	3	DTS 3W3 P	3310-0101-01
03	3	DTS 3W3 PSP	3310-0101-02
07	2	DTS 7W2 PY	3310-0201-03
11	1	DTS 11W1 PY	3310-0201-04
05	5	DTS 5W5 P	3310-0102-01
09	4	DTS 9W4 PY	3310-0202-02
13	3	DTS 13W3 PY	3310-0202-03
17	2	DTS 17W2 PY	3310-0202-04
21	1	DTS 21W1 PY	3310-0202-05
08	8	DTS 8W8 P	3310-0103-01
13	6	DTS 13W6 PY	3310-0203-02
17	5	DTS 17W5 PY	3310-0203-03
21	4	DTS 21WA8 PY	3310-0203-04
25	3	DTS 25W3 PY	3310-0203-05
27	2	DTS 27W2 PY	3310-0203-06
24	7	DTS 24W7 PY	3310-0204-01
36	4	DTS 36W4 PY	3310-0204-02
43	2	DTS 43W2 PY	3310-0204-03

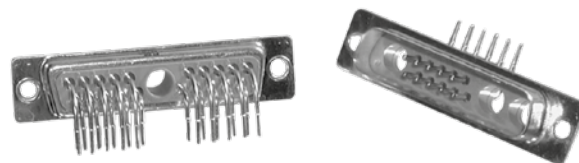
Socket Connector

No. Pos:	Special Contacts	Name:	Part No:
05	1	DTS 5W1 SY	3310-0200-11
02	2	DTS 2W2 SP	3310-0100-12
03	3	DTS 3W3 S	3310-0101-11
03	3	DTS 3W3 SPS	3310-0101-12
07	2	DTS 7W2 SY	3310-0201-13
11	1	DTS 11W1 SY	3310-0201-14
05	5	DTS 5W5 S	3310-0102-11
09	4	DTS 9W4 SY	3310-0202-12
13	3	DTS 13W3 SY	3310-0202-13
17	2	DTS 17W2 SY	3310-0202-14
21	1	DTS 21W1 SY	3310-0202-15
08	8	DTS 8W8 S	3310-0103-11
13	6	DTS 13W6 SY	3310-0203-12
17	5	DTS 17W5 SY	3310-0203-13
21	4	DTS 21WA8 SY	3310-0203-14
25	3	DTS 25W3 SY	3310-0203-15
27	2	DTS 27W2 SY	3310-0203-16
24	7	DTS 24W7 SY	3310-0204-11
36	4	DTS 36W4 SY	3310-0204-12
43	2	DTS 43W2 SY	3310-0204-13

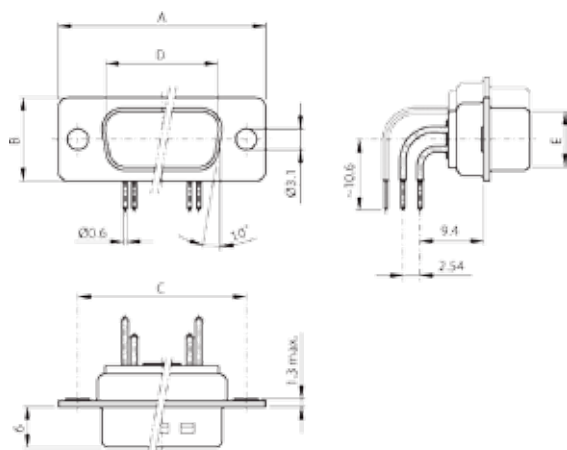
Solder Pin, Angled 9.4 mm

Machined contacts.
Tinned Shell as Standard.
Class 2 connector pins as Standard.
Other Plating and/or class on request.
Angled 7.18 mm version on request.

Technical Information on page 88-89
Mounting options on page 98-106

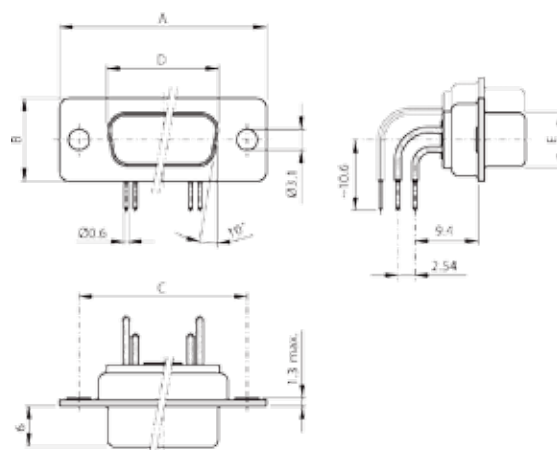


Plug connector



Size	A	B	C	D	E
DE	30.80	12.40	25.00	16.79	08.23
DA	39.20	12.40	33.30	25.12	08.23
DB	53.10	12.40	47.00	38.84	08.23
DC	69.50	12.40	63.50	55.30	08.23
DD	67.00	15.40	61.10	52.68	10.95

Socket connector



Size	A	B	C	D	E
DE	30.80	12.40	25.00	16.46	08.02
DA	39.20	12.40	33.30	24.79	08.02
DB	53.10	12.40	47.00	38.50	08.02
DC	69.50	12.40	63.50	54.96	08.02
DD	67.00	15.40	61.10	52.55	10.87

Order Codes:

Plug Connector

No. Pos:	Special Contacts	Name:	Part No:
05	1	DTS 5W1 PYC	3310-0300-01
02	2	DTS 2W2 PS	3310-0100-02
03	3	DTS 3W3 P	3310-0101-01
03	3	DTS 3W3 PSP	3310-0101-02
07	2	DTS 7W2 PYC	3310-0301-03
11	1	DTS 11W1 PYC	3310-0301-04
05	5	DTS 5W5 P	3310-0102-01
09	4	DTS 9W4 PYC	3310-0302-02
13	3	DTS 13W3 PYC	3310-0302-03
17	2	DTS 17W2 PYC	3310-0302-04
21	1	DTS 21W1 PYC	3310-0302-05
08	8	DTS 8W8 P	3310-0103-01
13	6	DTS 13W6 PYC	3310-0303-02
17	5	DTS 17W5 PYC	3310-0303-03
21	4	DTS 21W4 PYC	3310-0303-04
25	3	DTS 25W3 PYC	3310-0303-05
27	2	DTS 27W2 PYC	3310-0303-06
24	7	DTS 24W7 PYC	3310-0304-01
36	4	DTS 36W4 PYC	3310-0304-02
43	2	DTS 43W2 PYC	3310-0304-03

Socket Connector

No. Pos:	Special Contacts	Name:	Part No:
05	1	DTS 5W1 SYC	3310-0300-11
02	2	DTS 2W2 SP	3310-0100-12
03	3	DTS 3W3 S	3310-0101-11
03	3	DTS 3W3 SPS	3310-0101-12
07	2	DTS 7W2 SYC	3310-0301-13
11	1	DTS 11W1 SYC	3310-0301-14
05	5	DTS 5W5 S	3310-0102-11
09	4	DTS 9W4 SYC	3310-0302-12
13	3	DTS 13W3 SYC	3310-0302-13
17	2	DTS 17W2 SYC	3310-0302-14
21	1	DTS 21W1 SYC	3310-0302-15
08	8	DTS 8W8 S	3310-0103-11
13	6	DTS 13W6 SYC	3310-0303-12
17	5	DTS 17W5 SYC	3310-0303-13
21	4	DTS 21W4 SYC	3310-0303-14
25	3	DTS 25W3 SYC	3310-0303-15
27	2	DTS 27W2 SYC	3310-0303-16
24	7	DTS 24W7 SYC	3310-0304-11
36	4	DTS 36W4 SYC	3310-0304-12
43	2	DTS 43W2 SYC	3310-0304-13

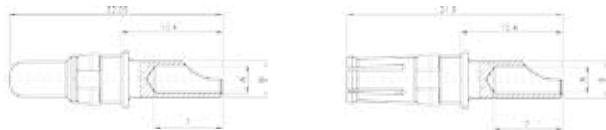
Solder & Crimp Versions

Machined contacts.
Class 2 connector pins as Standard.
Other Plating and/or class on request.

Technical Information on page 88-89

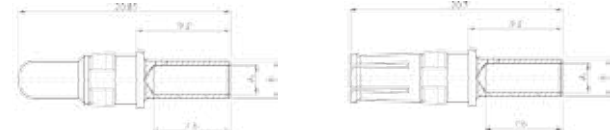


Solder Version



Amp.	Plug	Socket	ØA	ØB
10 A	3311-0001-01	3311-0001-11	1.80	2.55
20 A	3311-0001-02	3311-0001-12	2.80	3.70
40 A	3311-0001-03	3311-0001-13	4.80	5.60

Crimp Version



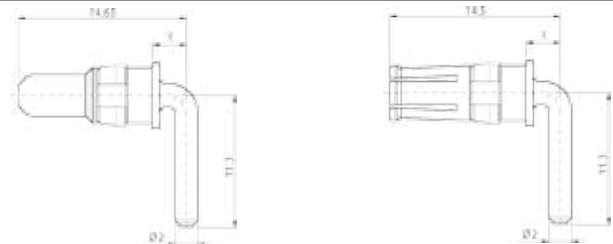
Amp.	Plug	Socket	ØA	ØB
10 A	3311-0002-01	3311-0002-11	1.80	2.55
20 A	3311-0002-02	3311-0002-12	2.80	3.70
40 A	3311-0002-03	3311-0002-13	4.80	5.60

PCB Straight Version



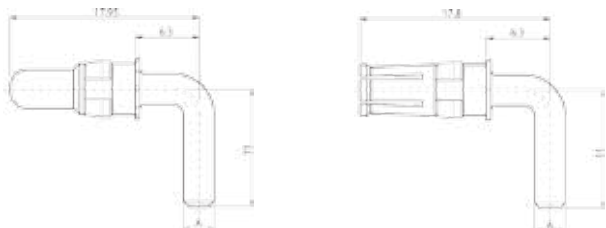
Amp.	Plug	Socket	ØA
10 A	3311-0003-01	3311-0003-11	2.00
20 A	3311-0003-02	3311-0003-12	2.60
40 A	3311-0003-03	3311-0003-13	3.20

90° PCB-A Version



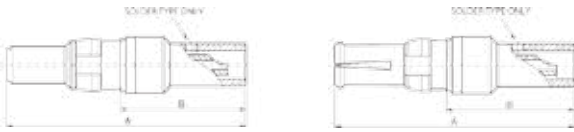
Amp.	Plug	Socket
10 A	3311-0004-01	3311-0004-14

90° PCB Version



Amp.	Plug	Socket	ØA
10 A	3311-0005-01	3311-0005-11	2,00
20 A	3311-0005-02	3311-0005-12	2,85
30 A	3311-0005-03	3311-0005-13	3,20
40 A	3311-0005-04	3311-0005-14	3,75

Solder Version



Coaxial Contacts - 50 / 75 Ohm

Contact Material:	Copper Alloy
Insulator Material:	Teflon
Crimp Sleeve:	PTFE
Other metal parts:	Copper Alloy
Surface Plating:	Inner Contact 1,3μ Au
	Outer Contact 0,8μ Au

	Cable	Plug	Socket	A	B
50Ω	178 B/U, 196 A/U, 404 U	3311-0020-01	3311-0020-11	23.0	11.2
50Ω	174 U, 188 A/U, 316 U	3311-0020-02	3311-0020-12	23.0	11.2
50Ω	180 B/U	3311-0020-03	3311-0020-13	23.0	11.2
50Ω	58 C/U, 141 A/U	3311-0020-04	3311-0020-14	26.8	14.8
50Ω	316 U (Double Braided)	3311-0020-05	3311-0020-15	24.0	12.2
75Ω	179 B/U, 187 A/U (B=7,3)	3311-0020-06	3311-0020-16	19.05	7.3
75Ω	179 B/U, 187 A/U (B=11,2)	3311-0020-07	3311-0020-17	23.0	11.2

Crimp / Solder Version



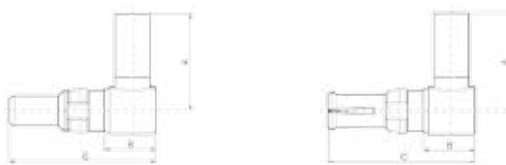
	Cable	Plug	Socket	A	B
50Ω	178 B/U, 196 A/U, 404 U	3311-0021-01	3311-0021-11	23.0	11.2
50Ω	174 U, 188 A/U, 316 U	3311-0021-02	3311-0021-12	23.0	11.2
50Ω	180 B/U	3311-0021-03	3311-0021-13	23.0	11.2
50Ω	58 C/U, 141 A/U	3311-0021-04	3311-0021-14	26.8	14.8
75Ω	179 B/U, 187 A/U (B=7,3)	3311-0021-05	3311-0021-15	19.05	7.3
75Ω	179 B/U, 187 A/U (B=11,2)	3311-0021-06	3311-0021-16	23.0	11.2

90° Solder / Solder Version



	Cable	Plug	Socket	A	B	C
50Ω	178 B/U, 196 A/U	3311-0024-01	3311-0024-11	18.5	8.2	19.8
50Ω	188 A/U, 316 U	3311-0024-02	3311-0024-12	18.5	8.2	19.8
50Ω	195 A/U, 180 B/U	3311-0024-03	3311-0024-13	18.2	8.2	19.8
50Ω	58 C/U	3311-0024-04	3311-0024-14	18.2	8.2	19.8
75Ω	179 B/U, 187 A/U	3311-0024-05	3311-0024-15	18.5	8.2	19.8

90° Crimp / Solder Version



	Cable	Plug	Socket	A	B	C
50Ω	178 B/U, 196 A/U	3311-0025-01	3311-0025-11	18.5	8.2	19.8
50Ω	188 A/U, 316 U	3311-0025-02	3311-0025-12	18.5	8.2	19.8
50Ω	195 A/U, 180 B/U	3311-0025-03	3311-0025-13	18.2	8.2	19.8
50Ω	58 C/U	3311-0025-04	3311-0025-14	18.2	8.2	19.8
75Ω	179 B/U, 187 A/U	3311-0025-05	3311-0025-15	18.5	8.2	19.8

Crimp / Crimp Version



	Cable	Plug	Socket	A	B
50Ω	174 U, 188 A/U, 316 U	3311-0022-01	3311-0022-11	23.0	11.2
50Ω	316 U (Double Braided)	3311-0022-02	3311-0022-12	23.0	11.2
50Ω	58 C/U, 141 A/U	3311-0022-03	3311-0022-13	22.7	10.9
75Ω	179 B/U, 187 A/U	3311-0022-04	3311-0022-14	22.45	11.2
75Ω	180 B/U	3311-0022-05	3311-0022-15	21.65	10.4

90° Crimp / Crimp Version



	Plug	Socket	Cable
50Ω	3311-0026-01	3311-0026-11	174 U, 188 A/U, 316 U
75Ω	3311-0026-02	3311-0026-12	179 B/U, 187 A/U

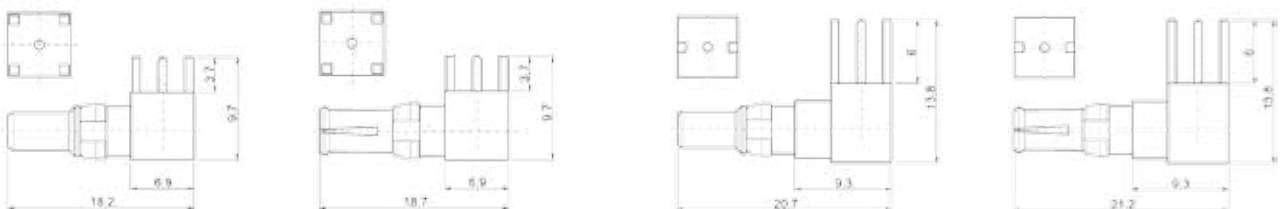
09

PCB Version



	Plug	Socket
50Ω	3311-0023-01	3311-0023-11
50Ω	3311-0023-02	3311-0023-12

90° PCB Version



	Plug	Socket
50Ω - 5leg	3311-0027-01	3311-0027-11
75Ω - 5leg	3311-0027-02	3311-0027-12
50Ω - 3leg	3311-0027-03	3311-0027-13
75Ω - 3leg	3311-0027-04	3311-0027-14

High Voltage Contacts

High Quality Machined Pins

High Voltage, Solder Version



Plug

3311-0016-01

Socket

3311-0016-11

High Voltage Contacts:

Body:	PTFE
Male Contacts:	Cu Zn 40 Pb3
Female Contacts:	Copper Alloy
Retainer Clip:	Cu Be 2

High Voltage, 90° Solder Version



Plug

3311-0016-05

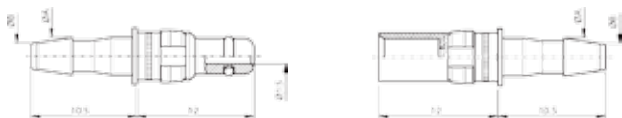
Socket

3311-0016-15

Pneumatic Contacts

High Quality Machined Pins

Pneumatic Contacts

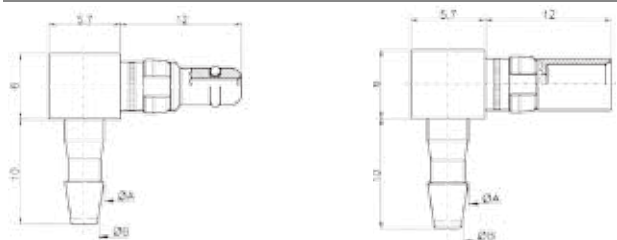


Pneumatic Contacts:

Contact Material:	German Silver
Material O-ring:	Viton
Max. Pressure (68°F):	7 bar / 101.5 psi.
Temperature Range:	-10°C to +60°C

Tube Inner Ø	ØA	ØB	Air Tube	Plug	Socket
2.0	2.6	1.5	PU-2	3311-0017-01	3311-0017-11
2.6	3.1	2.0	PUN4 x 2.5	3311-0017-02	3311-0017-12
3.0	3.4	2.3	PU-3	3311-0017-03	3311-0017-13
4.0	4.8	3.7	PU-4	3311-0017-04	3311-0017-14

90° Pneumatic Contacts

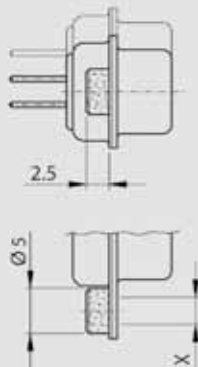


Tube Inner Ø	ØA	ØB	Air Tube	Plug	Socket
2.0	2.6	1.5	PU-2	3311-0018-01	3311-0018-11
3.0	3.4	2.3	PU-3	3311-0018-02	3311-0018-12

ASSEMBLIES

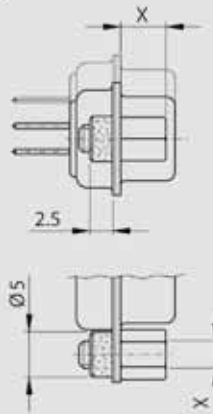
For straight versions

M85 x



M85 UN	Back Nut	UNC 4-40
M85 M3	Back Nut	M3

M85 xx



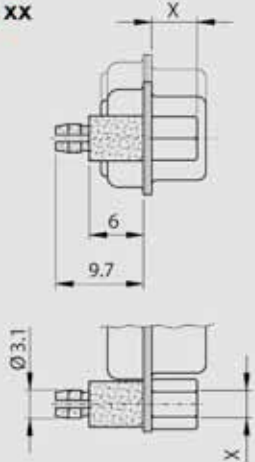
M85 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M85 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M85 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M85 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

M86 x



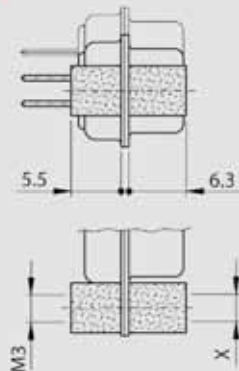
M86 UN	Push-On	UNC 4-40
M86 M3	Push-On	M3

M86 xx



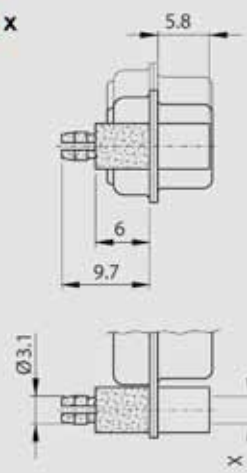
M86 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M86 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M86 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M86 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

M15 x



M15 UN	Bolt	UNC 4-40
M15 M3	Bolt	M3

M88 x

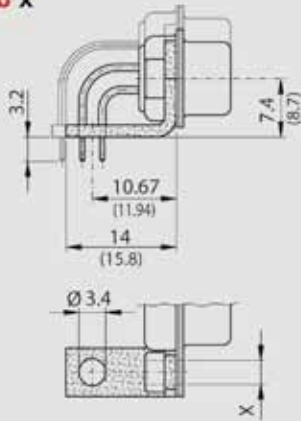


M88 UN	Bolt	UNC 4-40
	with Push-On	
M88 M3	Bolt	M3
	with Push-On	

ASSEMBLIES, Mounting Height 7.4 mm

For solder pin 90°, 9.4 mm (YC)

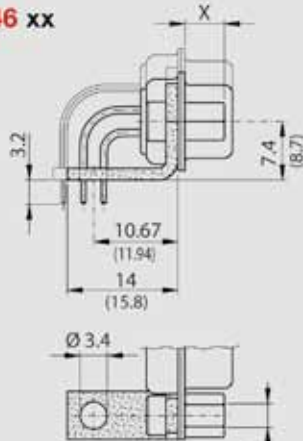
M46 x



Metal Bracket

M46 D3	Rivet	Ø 3.1 mm
M46 UN	Back Nut	UNC 4-40
M46 M3	Back Nut	M3

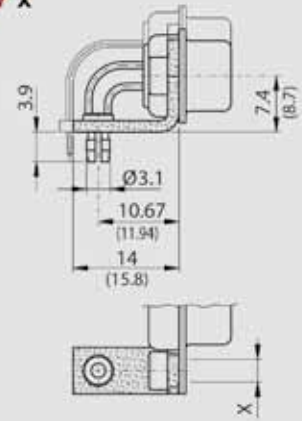
M46 xx



Metal Bracket

M46 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M46 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M46 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M46 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

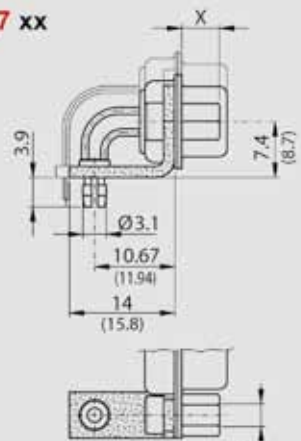
M47 x



Metal Bracket with P.o.F.

M47 D3	Rivet	Ø 3.1 mm
M47 UN	Back Nut	UNC 4-40
M47 M3	Back Nut	M3

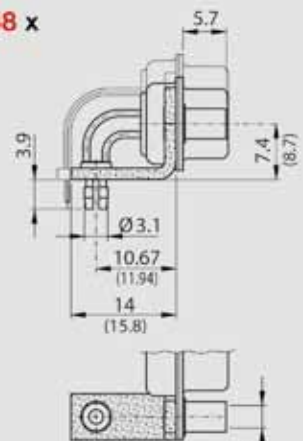
M47 xx



Metal Bracket with P.o.F.

M47 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M47 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M47 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M47 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

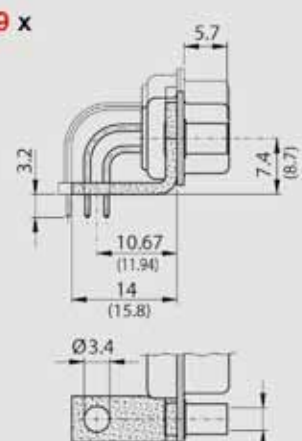
M48 x



Metal Bracket with P.o.F.

M48 UN	Front Nut	UNC 4-40
M48 M3	Front Nut	M3

M49 x



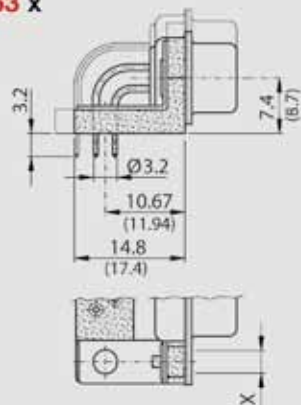
Metal Bracket

M49 UN	Front Nut	UNC 4-40
M49 M3	Front Nut	M3

ASSEMBLIES, Mounting Height 7.4 mm

For solder pin 90°, 9.4 mm (YC)

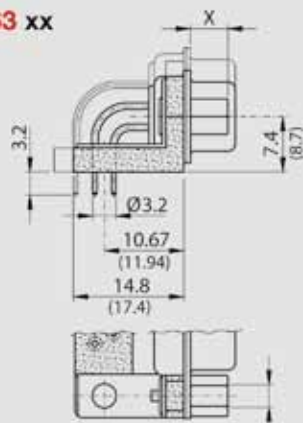
M63 x



Plastic Bracket with Ground Strap

M63 D3	Rivet	Ø 3.1 mm
M63 UN	Back Nut	UNC 4-40
M63 M3	Back Nut	M3

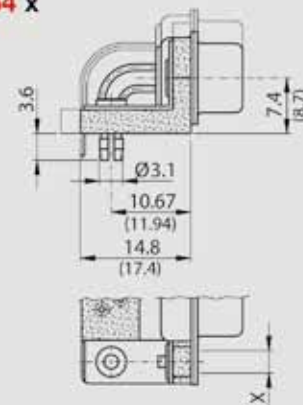
M63 xx



Plastic Bracket with Ground Strap

M63 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M63 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M63 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M63 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

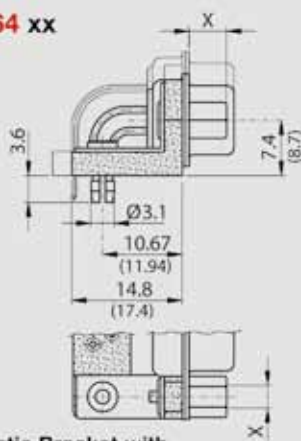
M64 x



Plastic Bracket with Ground Strap and P.o.F.

M64 D3	Rivet	Ø 3.1 mm
M64 UN	Back Nut	UNC 4-40
M64 M3	Back Nut	M3

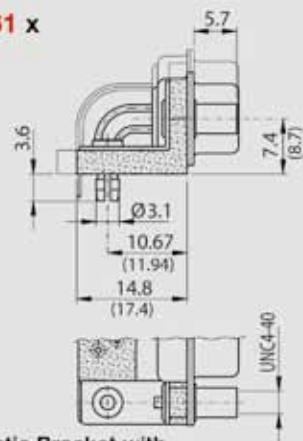
M64 xx



Plastic Bracket with Ground Strap and P.o.F.

M64 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M64 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M64 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M64 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

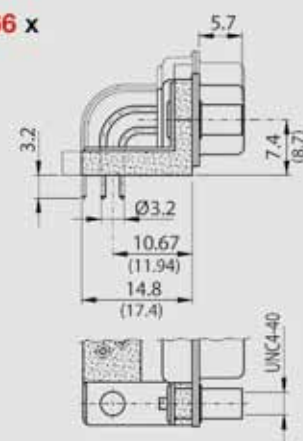
M61 x



Plastic Bracket with Ground Strap and P.o.F.

M61 UN	Front Nut	UNC 4-40
M61 M3	Front Nut	M3

M66 x



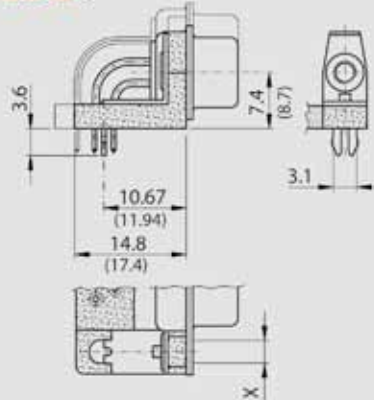
Plastic Bracket with Ground Strap

M66 UN	Front Nut	UNC 4-40
M66 M3	Front Nut	M3

ASSEMBLIES, Mounting Height 7.4 mm

For solder pin 90°, 9.4 mm (YC)

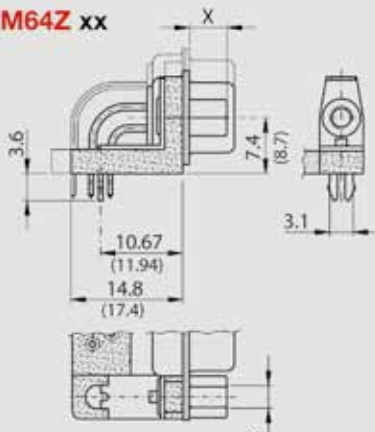
M64Z x



Plastic Bracket with Ground Clip

M64Z D3	Rivet	Ø 3.1 mm
M64Z UN	Back Nut	UNC 4-40
M64Z M3	Back Nut	M3

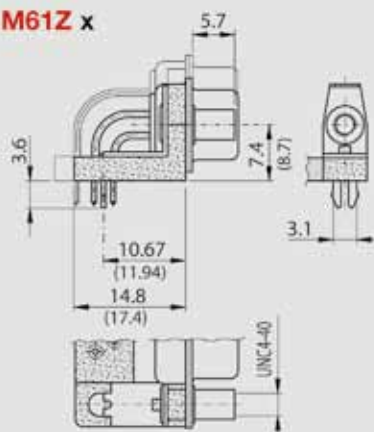
M64Z xx



Plastic Bracket with Ground Clip

M64Z UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M64Z UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M64Z M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M64Z M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

M61Z x



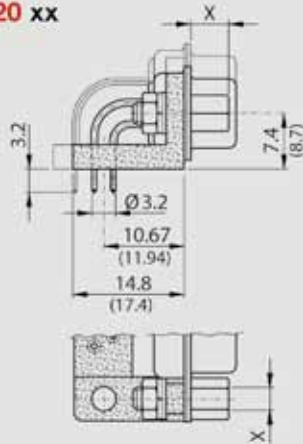
Plastic Bracket with Ground Clip

M61Z UN	Front Nut	UNC 4-40
M61Z M3	Front Nut	M3

ASSEMBLIES, Mounting Height 7.4 mm

For solder pin 90°, 9.4 mm (YC)

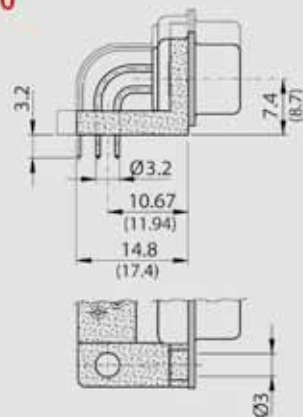
M20 xx



Plastic Bracket

M20 UN B5	Screw Lock	UNC 4-40
	5 mm thread	
M20 UN B5	Screw Lock	UNC 4-40
	6 mm thread	
M20 M3 B5	Screw Lock	M3
	5 mm thread	
M20 M3 B6	Screw Lock	M3
	6 mm thread	

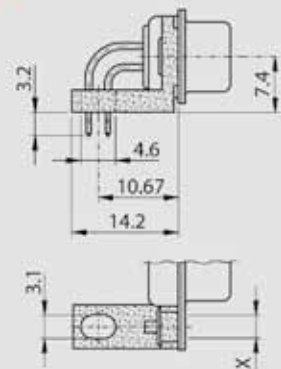
M70



Plastic Bracket

M70	Rivet	Ø 3.1 mm
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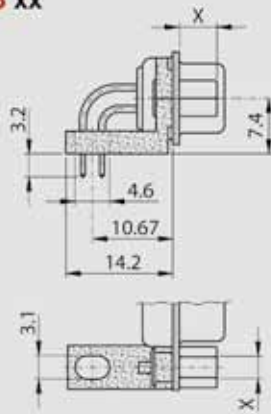
M73 x



Plastic Bracket

M73 UN	Back Nut	UNC 4-40
M73 M3	Back Nut	M3

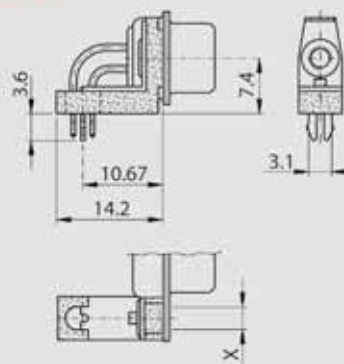
M73 xx



Plastic Bracket

M73 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M73 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M73 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M73 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

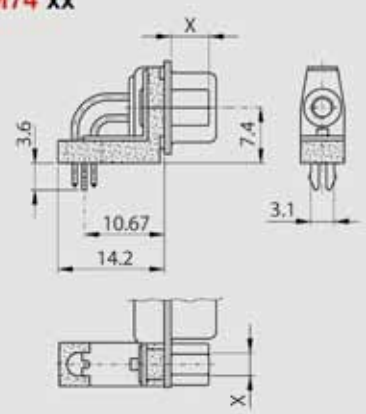
M74 x



Plastic Bracket with Ground Strap

M74 UN	Back Nut	UNC 4-40
M74 M3	Back Nut	M3

M74 xx



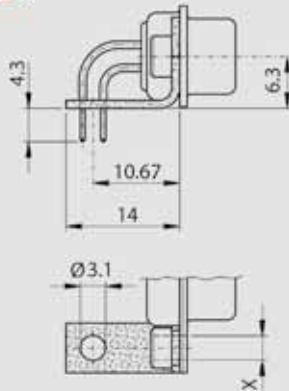
Plastic Bracket with Ground Strap

M74 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M74 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M74 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M74 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

ASSEMBLIES, Mounting Height 6.3 mm

For solder pin 90°, 9.4 mm (YC)

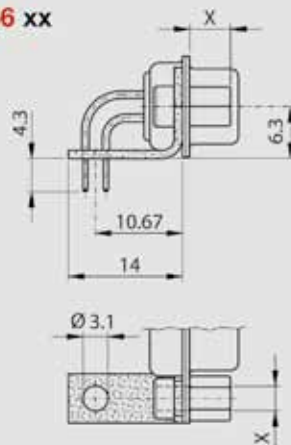
M56 x



Metal Bracket

M56 D3	Rivet	Ø 3.1 mm
M56 UN	Back Nut	UNC 4-40
M56 M3	Back Nut	M3

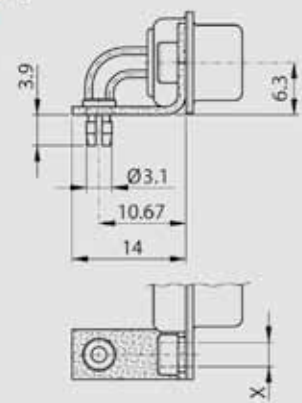
M56 xx



Metal Bracket

M56 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M56 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M56 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M56 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

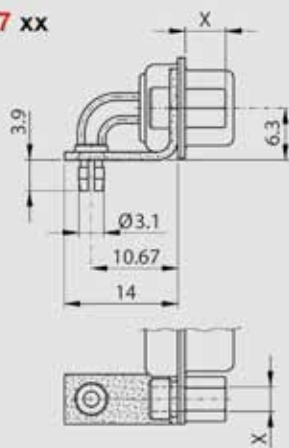
M57 x



Metal Bracket with P.o.F.

M57 D3	Rivet	Ø 3.1 mm
M57 UN	Back Nut	UNC 4-40
M57 M3	Back Nut	M3

M57 xx



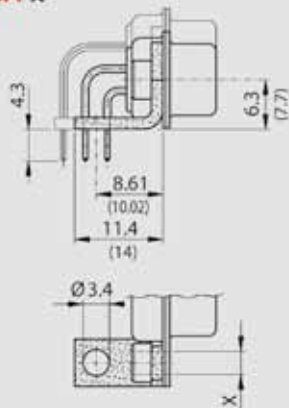
Metal Bracket with P.o.F.

M57 UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M57 UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M57 M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M57 M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

ASSEMBLIES, Mounting Height 6.3 mm

For solder pin 90°, 7.18 mm (YCA)

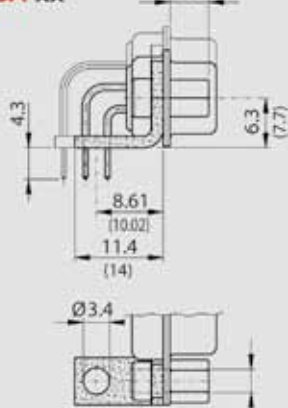
M46A x



Metal Bracket

M46A D3	Rivet	Ø 3.1 mm
M46A UN	Back Nut	UNC 4-40
M46A M3	Back Nut	M3

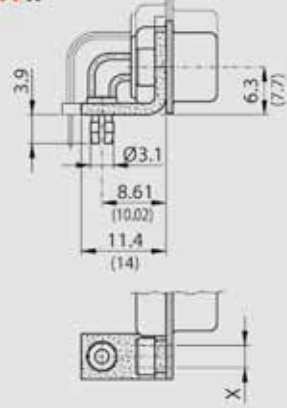
M46A xx



Metal Bracket

M46A UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M46A UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M46A M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M46A M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

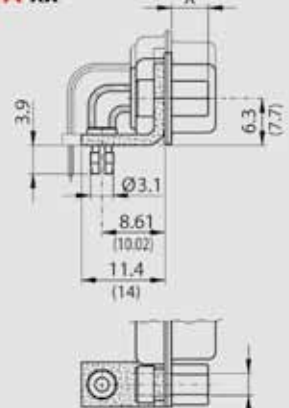
M47A x



Metal Bracket with P.o.F.

M47A D3	Rivet	Ø 3.1 mm
M47A UN	Back Nut	UNC 4-40
M47A M3	Back Nut	M3

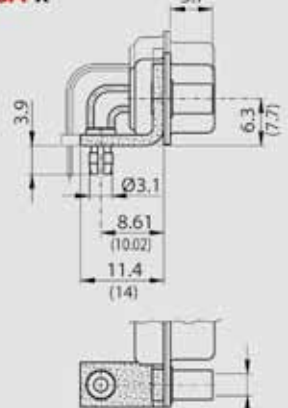
M47A xx



Metal Bracket with P.o.F.

M47A UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M47A UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M47A M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M47A M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

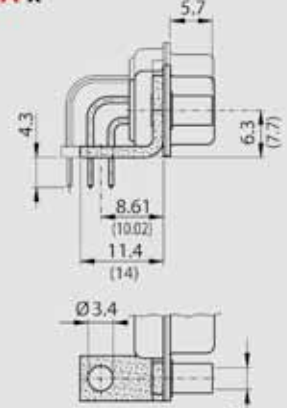
M48A x



Metal Bracket with P.o.F.

M48A UN	Front Nut	UNC 4-40
M48A M3	Front Nut	M3

M49A x



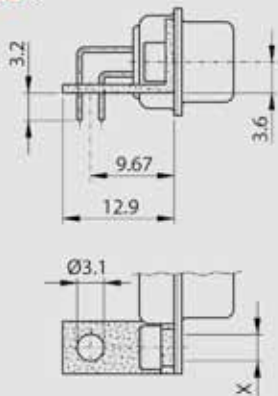
Metal Bracket

M49A UN	Front Nut	UNC 4-40
M49A M3	Front Nut	M3

ASSEMBLIES, Mounting Height 3.6 mm

For solder pin Eurostyle, 8.4 mm (YC-E)

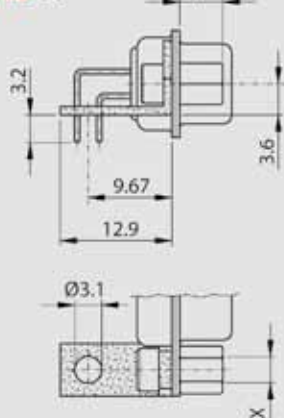
M446 x



Metal Bracket

M446 D3	Rivet	Ø 3.1 mm
M446 UN	Back Nut	UNC 4-40
M446 M3	Back Nut	M3

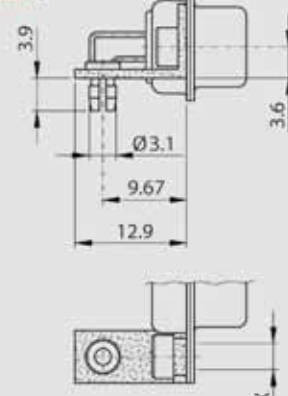
M446 xx



Metal Bracket

M446 UN B5	Back Nut	UNC 4-40
with Screw, 5 mm thread		
M446 UN B6	Back Nut	UNC 4-40
with Screw, 6 mm thread		
M446 M3 B5	Back Nut	M3
with Screw, 5 mm thread		
M446 M3 B6	Back Nut	M3
with Screw, 6 mm thread		

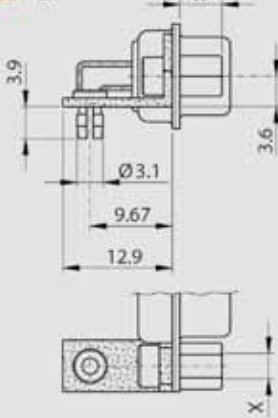
M447 x



Metal Bracket with P.o.F.

M447 D3	Rivet	Ø 3.1 mm
M447 UN	Back Nut	UNC 4-40
M447 M3	Back Nut	M3

M447 xx



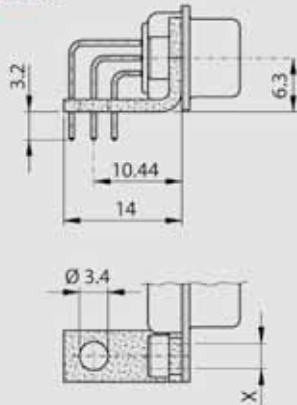
Metal Bracket with P.o.F.

M447 UN B5	Back Nut	UNC 4-40
with Screw, 5 mm thread		
M447 UN B6	Back Nut	UNC 4-40
with Screw, 6 mm thread		
M447 M3 B5	Back Nut	M3
with Screw, 5 mm thread		
M447 M3 B6	Back Nut	M3
with Screw, 6 mm thread		

ASSEMBLIES, Mounting Height 6.3 mm

For solder pin 90°, 7.9 mm (YC-E) High Density Only

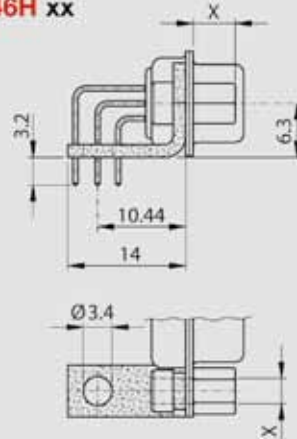
M46H x



Metal Bracket

M46H D3	Rivet	Ø 3.1 mm
M46H UN	Back Nut	UNC 4-40
M46H M3	Back Nut	M3

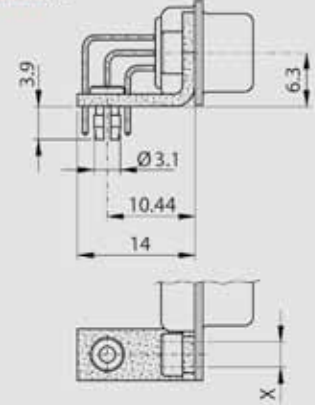
M46H xx



Metal Bracket

M46H UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M46H UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M46H M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M46H M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

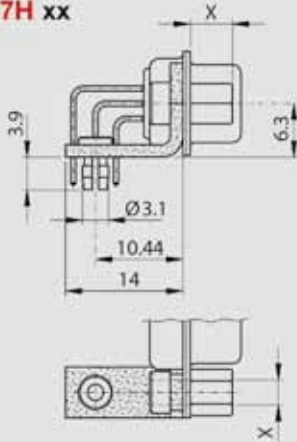
M47H x



Metal Bracket with P.o.F.

M47H D3	Rivet	Ø 3.1 mm
M47H UN	Back Nut	UNC 4-40
M47H M3	Back Nut	M3

M47H xx



Metal Bracket with P.o.F.

M47H UN B5	Back Nut	UNC 4-40
	with Screw, 5 mm thread	
M47H UN B6	Back Nut	UNC 4-40
	with Screw, 6 mm thread	
M47H M3 B5	Back Nut	M3
	with Screw, 5 mm thread	
M47H M3 B6	Back Nut	M3
	with Screw, 6 mm thread	

ProfiBus module PB 12 Mbaud

BUS: Intermediary connector without switchable resistor-network

End of BUS: Connector with switchable resistor network (ON/OFF)

DP = Standard Version

PG = With programming Connection

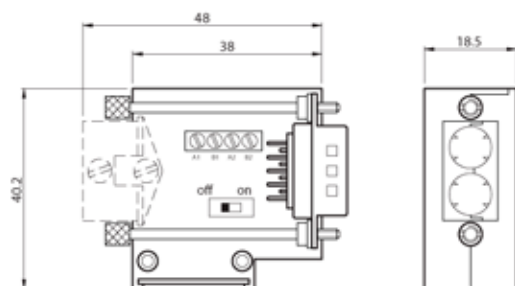
Housing available in Plastic (Black) or Metalized

Also available for Data Rate 1,5 Mbaud on request

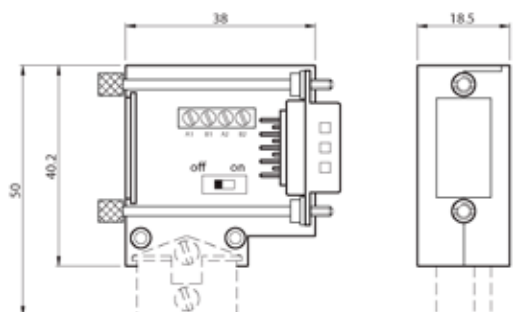
Please contact us for further Technical Information



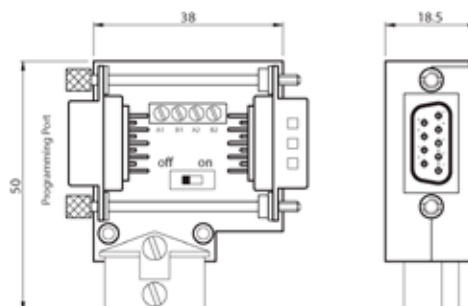
Horizontal Assembly - DP Version



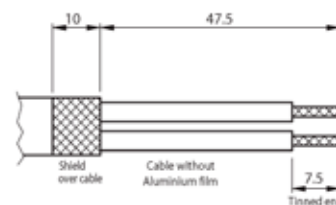
Vertical Assembly - DP Version



Vertical Assembly - PG Version



Cable Preparation



Line:	D-Sub:	Incoming:	Outgoing:
P	Pin 3	B1 / Red	B2 / Red
N	Pin 8	A1 / Green	A2 / Green

Terminals, rigid from 0.14 to 1.5 mm²
Flexible from 0.14 to 1.0 mm²
Integrated inductors to reduce the Inline reflections.

Order Codes:

Part No:	Product Code:	Version:	Function: Bus/End of Bus	Housing:
3330-0100-01	PB-B12MB	DP	Bus	Black Plastic
3330-0100-11	PB-F-12MB	DP	End of Bus	Black Plastic
3330-0100-02	PB-MB-12MB	DP	Bus	Metalized
3330-0100-12	PB-MF-12MB	DP	End of Bus	Metalized
3330-0100-03	PB-F-12MB-PG	PG	End of Bus	Black Plastic
3330-0100-04	PB-MF-12MB-PG	PG	End of Bus	Metalized

ProfiBus module PBA 12 Mbaud

BUS: Intermediary connector without switchable resistor-network

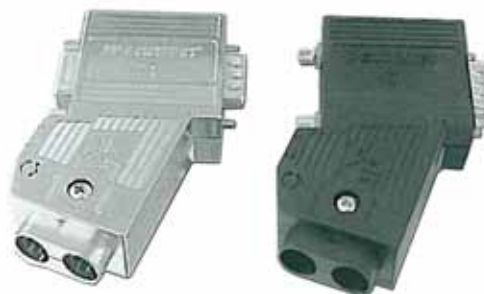
End of BUS: Connector with switchable resistor network (ON/OFF)

DP = Standard Version

PG = With programming Connection

IDC = With Insulation Displacement Connection

Please contact us for further Technical Information



Technical Data:

Terminals, rigid from 0.14 to 1.5 mm²
Flexible from 0.14 to 1.0 mm²

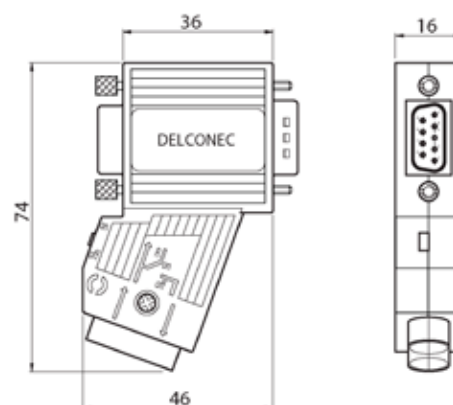
Cable Outlet: 70° Angled
Temperature Range: -25°C to +85°C

Housing available in Plastic (Black) or Metalized
Also available in IDC version on request.

Line:	D-Sub:	Incoming:	Outgoing:
P	Pin 3	B1 / Red	B2 / Red
N	Pin 8	A1 / Green	A2 / Green

70° Angled Assembly

PBA or PBA IDC



IDC = Insulation Displacement Connection.
Max Insulation on IDC Version: Ø 2.8mm

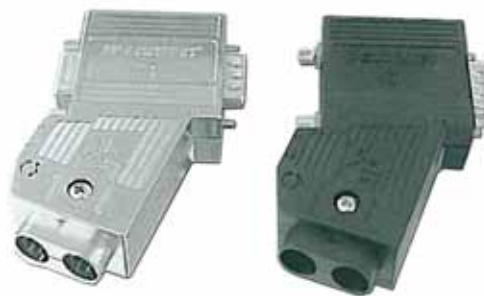
Order Codes:

Part No:	Product Code:	Version:	Function: Bus/End of Bus	Housing:
3330-0200-01	PBA-B12MB	DP	Bus	Black Plastic
3330-0200-11	PBA-F-12MB	DP	End of Bus	Black Plastic
3330-0200-02	PBA-MB-12MB	DP	Bus	Metalized
3330-0200-12	PBA-MF-12MB	DP	End of Bus	Metalized
3330-0200-03	PBA-F-12MB-PG	PG	End of Bus	Black Plastic
3330-0200-04	PBA-MF-12MB-PG	PG	End of Bus	Metalized
3330-0300-01	PBA-B12MB-IDC	DP-IDC	Bus	Black Plastic
3330-0300-11	PBA-F-12MB-IDC	DP-IDC	End of Bus	Black Plastic
3330-0300-02	PBA-MB-12MB-IDC	DP-IDC	Bus	Metalized
3330-0300-12	PBA-MF-12MB-IDC	DP-IDC	End of Bus	Metalized
3330-0300-03	PBA-F-12MB-PG-IDC	PG-IDC	End of Bus	Black Plastic
3330-0300-04	PBA-MF-12MB-PG-IDC	PG-IDC	End of Bus	Metalized

CanBus Module (CBA) up to 1 MBaud

DIN 11898, 9-pole

PG = With programming Connection



Please contact us for further Technical Information

Technical Data:

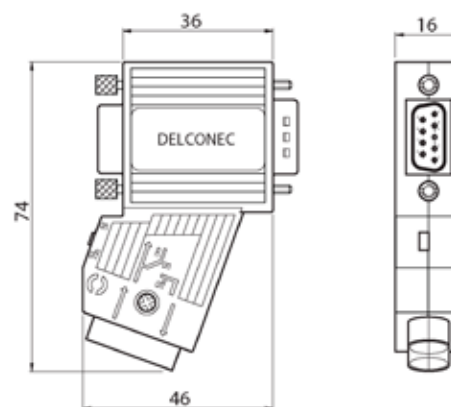
Terminals, rigid from 0.14 to 1.5 mm²
Flexible from 0.14 to 1.0 mm²
Integrated, Switchable Resistor

Cable Outlet: 70° Angled
Temperature Range: -25°C to +85°C
Power Consumption: ≤ 5mA
Data Rate: 1 Mbit/s
Power Supply: Over FieldBus 4.75 to 5.25V DC
Housing: Black Plastic or Metalized Plastic

	D-Sub:	Incoming:	Outgoing:
Can-Low	Pin 2	A1	A2
Can-High	Pin 7	B1	B2
Can-GND	Pin 3	C1	C2
Shield	Pin 5		

70° Angled Assembly

CBA



10

Order Codes:

Part No:	Product Code:	PG Connection	Housing:
3330-0900-01	DP-CBA-DE008242		Black Plastic
3330-0900-02	DP-CBA-DE008455		Metalized Plastic
3330-0900-03	DP-CBA-DE008464	X	Black Plastic
3330-0900-04	DP-CBA-DE008465	X	Metalized Plastic

TECHNICAL SPECIFICATIONS

Material:

Connector Housing: Glass-Filled TP BLACK
UL94 V-0 Class

Contacts: Brass

Shell: Steel, Tin-plated over Ni

Electrical Specifications:

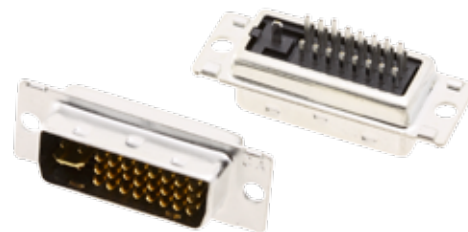
Voltage Rating: 500 V AC R.M.S.

Current Rating: 1,5 Amp

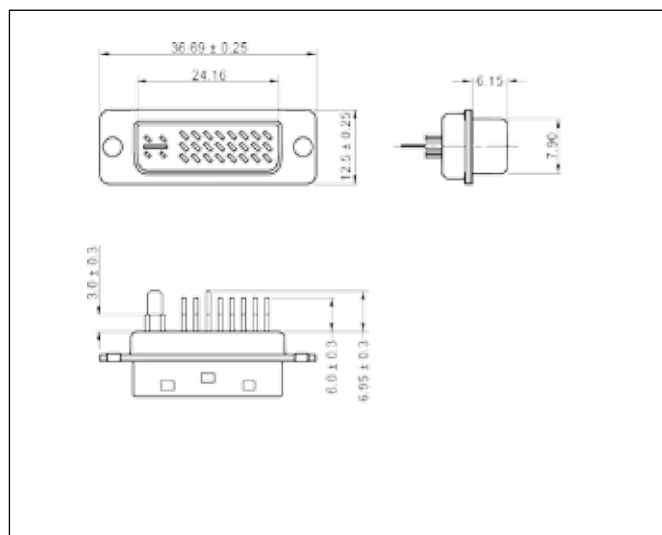
Insulation Resistance: 1000 MΩ Min.

Contact Resistance: 20 mΩ Max. (Initial)

Operating Temperature: -20°C to +85°C

**Male Connector**

- Suitable for Cable and Hood Mounting



	17 Contacts Analog 12+4+Key
	19 Contacts Digital Single Link 18+Key
	23 Contacts Analog / Digital 18+4+Key
	25 Contacts Digital Dual Link 24+Key
	29 Contacts Analog / Digital 24+4+Key

Ordering information:

Size/Type:	Part Number:	Product Code:
17-pin Analog	3401-0101-01	DVI-17-MCA
19-pin Digital-S	3401-0101-02	DVI-19-MCD
23-pin A/D	3401-0101-03	DVI-23-MCAD
25-pin Digital-D	3401-0101-04	DVI-25-MCD
29-pin A/D	3401-0101-05	DVI-29-MCAD

The male MHDVI connector suit Shielded Hood
MHDVI-CM found on page 112.

TECHNICAL SPECIFICATIONS

Material:

Connector Housing: Glass-Filled TP
UL94 V-0 Class

Contacts: Phosphor, Bronze
Gold-Flash

Shell: Zinc Alloy, Ni-plated

Electrical Specifications:

Voltage Rating: 500 V AC R.M.S.

Current Rating: 1,5 Amp

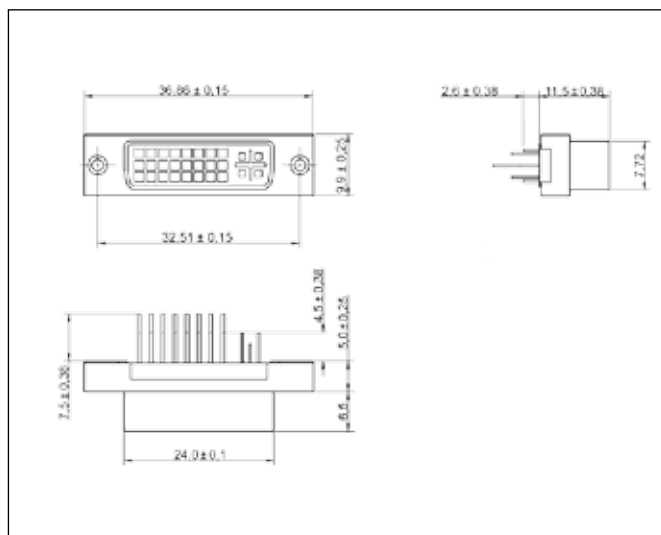
Insulation Resistance: 1000 M Ω Min.

Contact Resistance: 20 m Ω Max. (Initial)

Operating Temperature: -20°C to +85°C

**Female Connector**

- Suitable for Cable and Hood Mounting



Ordering information:

Size/Type:	Part Number:	Product Code:
17-pin Analog	3401-0101-11	On request
19-pin Digital-S	3401-0101-12	On request
23-pin A/D	3401-0101-13	On request
25-pin Digital-D	3401-0101-14	MHDVI-25-FCD
29-pin A/D	3401-0101-15	MHDVI-29-FCAD

Standard parts are 25 and 29 pins
17, 19 and 23 pins are available on request.

The female MHDVI connector suit Shielded Hood
MHDVI-CF found on page 113.

TECHNICAL SPECIFICATIONS

Material:

Plastic Hood: PVC
 Metal Hood: SPCC, Nickel over Copper

Operating Temperature: -30°C to +90°C

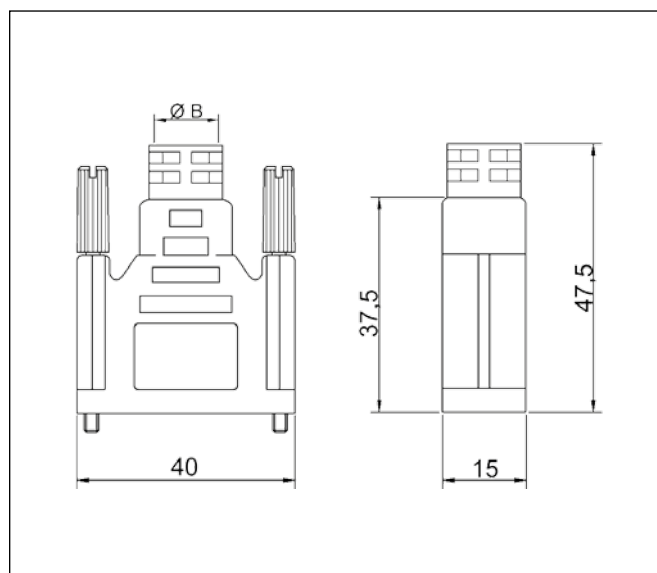
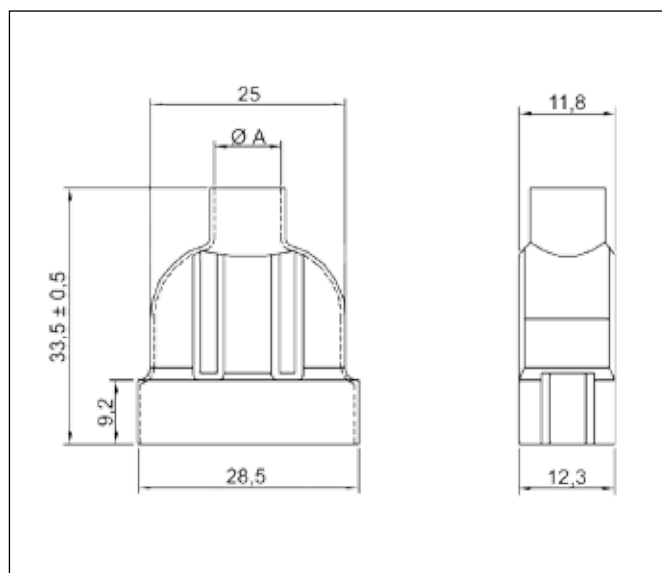
Cable Entry: Top

Thumbscrews: UNC 4-40

Cable Diameter: Up to 11,0 mm



Suitable connector can be found on page 110



Ordering information:

Plastic and Metal Hoods are delivered as Kits.

P/N - BULK:	Product Code:	Cable O.D. (max)	Ø A	Ø B	Note:
3400-0105-01	DVI-CM-HA	6,5 mm	6,5	5,5	
3400-0105-02	DVI-CM-EB	7,5 mm	7,5	6,5	Commonly ordered Part
3400-0105-03	DVI-CM-AD	8,5 mm	8,5	7,5	
3400-0105-04	DVI-CM-FF	9,0 mm	9,0	8,8	Commonly ordered Part
3400-0105-05	DVI-CM-BE	9,5 mm	9,5	9,0	
3400-0105-06	DVI-CM-GG	10,0 mm	10,0	9,5	Commonly ordered Part
3400-0105-07	DVI-CM-CH	11,0 mm	11,0	10,0	
3400-0105-08	DVI-CM-IH	11,0 mm	11,0	11,0	
3400-0105-09	DVI-CM-DI	12,0 mm	12,0	11,0	

TECHNICAL SPECIFICATIONS

Material:

Plastic Hood: PVC
 Metal Hood: SPCC, Nickel over Copper

Operating Temperature: -30°C to +90°C

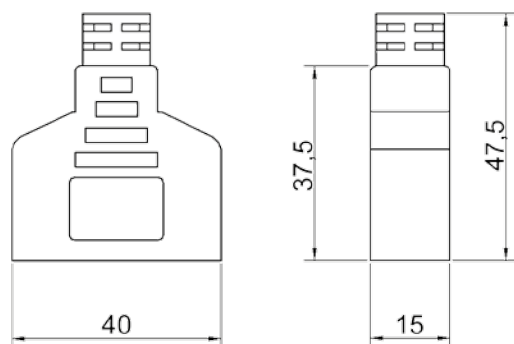
Cable Entry: Top

Cable Diameter: Up to 9,5 mm

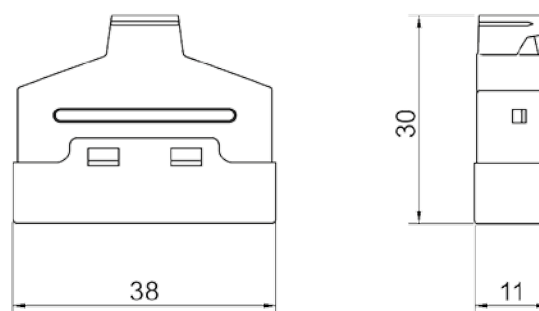


Suitable connector can be found on page 111

DVI-CF-8.0 / 9.5



DVI-CF-MC



Ordering Information:

Plastic Hoods

P/N - BULK:	Product Code:	Cable O.D. (max)
3400-0106-01	DVI-CF-8.0	8,0 mm
3400-0106-02	DVI-CF-9.5	9,5 mm

Metal Hoods

P/N - BULK:	Product Code:	Cable O.D. (max)
3400-0106-10	DVI-CF-MC	9,5 mm

Plastic and Metal Hoods are ordered separately.
 The Metal Hood DVI-CF-MC suit both the available
 Female Plastic Hoods (8,0mm - 9,5mm)

TECHNICAL SPECIFICATIONS

Material:

Connector Housing: Glass-Filled TP
UL94 V-0 Class

Contacts: Phosphor, Bronze
Gold-Flash

Shell: Zinc Alloy, Ni-plated

Electrical Specifications:

Voltage Rating: 500 V AC R.M.S.

Current Rating: 1,5 Amp

Insulation Resistance: 1000 MΩ Min.

Contact Resistance: 20 mΩ Max. (Initial)

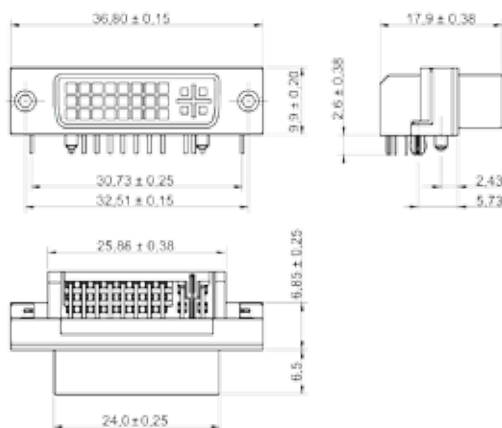
Operating Temperature: -20°C to +85°C



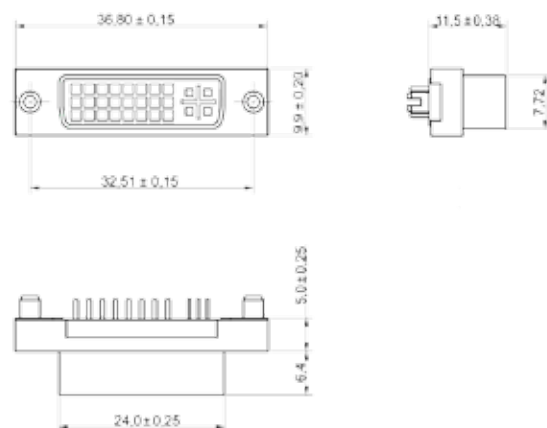
Female Connector

- Suitable for PCB Mounting

Angled PCB Connector



Straight PCB Connector



Ordering information:

Angled Version

Size/Type:	Part Number:	Product Code:
17-pin Analog	3401-0102-01	On request
19-pin Digital-S	3401-0102-02	On request
23-pin A/D	3401-0102-03	On request
25-pin Digital-D	3401-0102-04	DVI-A25-FCD
29-pin A/D	3401-0102-05	DVI-A29-FCAD

Straight Version

Size/Type:	Part Number:	Product Code:
17-pin Analog	3401-0102-11	On request
19-pin Digital-S	3401-0102-12	On request
23-pin A/D	3401-0102-13	On request
25-pin Digital-D	3401-0102-14	DVI-S25-FCD
29-pin A/D	3401-0102-15	DVI-S29-FCAD

**Features:**

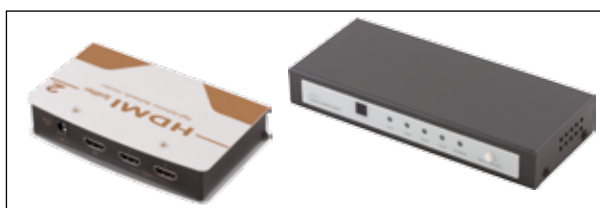
Ready-to-use HDMI Cables and Accessories

Technical Specifications:

Type A and C, 1080p (Full HD) compatible products



Cable (m):	Part Number:	Size/Type:	Version:
0.5m	5000-0001-01	28AWG, Type A	1.3
1.0m	5000-0001-02	28AWG, Type A	1.3
2.0m	5000-0001-03	28AWG, Type A	1.3
3.0m	5000-0001-04	28AWG, Type A	1.3
5.0m	5000-0001-05	28AWG, Type A	1.3
8.0m	5000-0001-06	24AWG, Type A	1.3
10.0m	5000-0001-07	24AWG, Type A	1.3
15.0m	5000-0001-08	24AWG, Type A	1.3



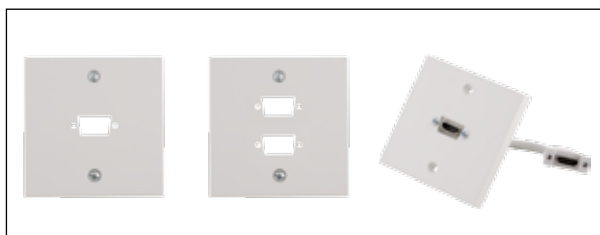
Product:	Part Number:	Size/Type:
HDMI Splitter	5001-0001-01	Type A, 19 Pin, 1 Input / 2 Output
HDMI Splitter	5001-0001-02	Type A, 19 Pin, 1 Input / 4 Output
HDMI Switch	5001-0002-01	2.25Gbps, 4 Input / 1 Output



Product:	Part Number:	Size/Type:
HDMI Repeater	5003-0001-01	2.25Gbps, w.Power Supp, 1080p
HDMI over Cat5	5004-0001-01	with Power Supply, 1080p



Product:	Part Number:	Size/Type:
Adapter (RA)	5004-0001-02	Male to Female (Right Angled)
Adapter A-C	5004-0001-03	Male to Female, Type A to C
Adapter A-A	5004-0001-04	Female to Female, Type A to A
Adapter DVI	5004-0001-05	Female DVI-D to Male HDMI
Adapter DVI	5004-0001-06	Male DVI-D to Female HDMI



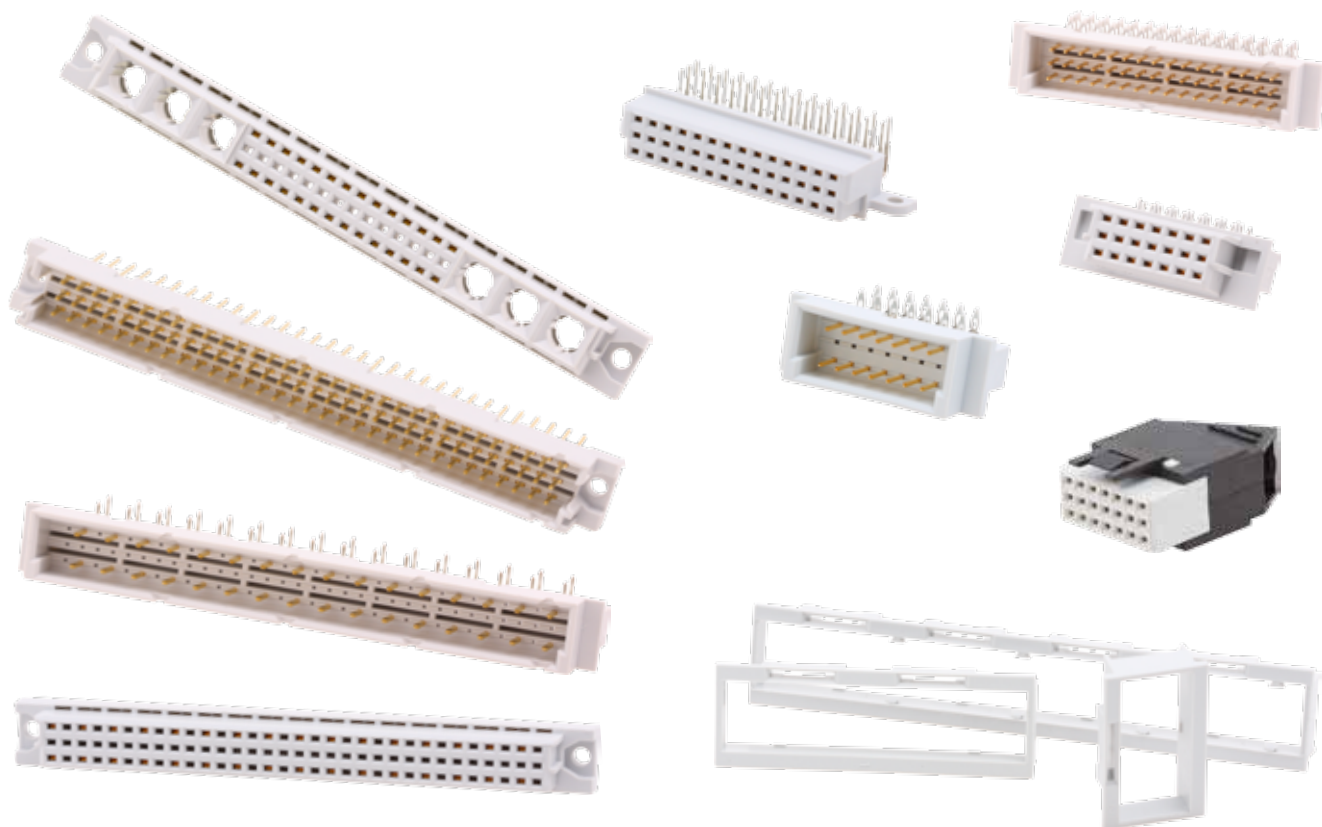
Product:	Part Number:	Size/Type:
Wall Plate 1	5049-0001-01	HDMI, Sub-D 9, HD15 x 1
Wall Plate 2	5049-0001-02	HDMI, Sub-D 9, HD15 x 2
Wall Plate 1L	5049-0001-03	Loaded, 1 x HDMI + 155mm Cable
Wall Plate 2L	5049-0001-04	Loaded, 2 x HDMI + 155mm Cable

Clip-in-module for Wall Port System available on request.



Product:	Part Number:	Size/Type:
Switch Cable	5002-0001-01	2.25Gbps, 2 Input / 1 Output
Chassis Cable	5010-0001-01	Female - Female, 155mm

General Information MHDIN 41612

**Materials:**

Connector Housing:	Glass-Filled PE UL94 V-0 Class
Female Contacts:	Phosphor, Bronze Nickel all over + hard gold MIL-G-45204 B Type II (99.0 % gold minimum) Grade C (Knoop hardness 130-200)
Male Contacts:	Copper alloy Gold over nickel as standard or Gold flash over nickelpalladium over nickel on request
Contact Finish:	• 0.8 μm hard gold over 2 μm nickel • 1.25 μm hard gold over 2 μm nickel • 2.5 μm hard gold over 3 μm nickel • Other platings on request
Termination Finish:	• 1 μm tinlead over nickel on press-in area • 5 μm tin over nickel • 1.25 μm gold over nickel on contact area • 0.1 μm gold over nickel • Other platings on request
Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC 603.	
Contact surfaces mechanically polished. Dual-beam female contact profiled to trapezoidal form.	

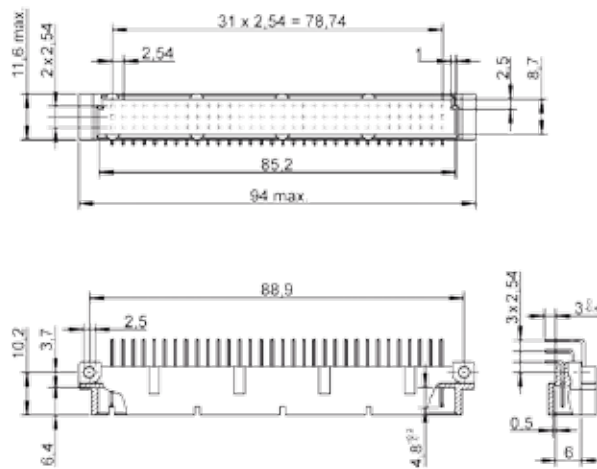
Electrical Specifications:

Current Rating:	1.5 A at 20 °C
(Type B, C, I, M, Q, R)	1 A at 80 °C
	0.75 A at 100 °C
Current Rating:	5.5 A at 20 °C
(Type D only)	4 A at 80 °C
	2.5 A at 100 °C
Proof voltage:	Contact/contact: 1000 V (rms)
	Contact/test panel: 1550 V (rms)
Insulation resistance:	$\geq 10^6 \text{ M}\Omega$
Contact resistance:	$\leq 20 \text{ m}\Omega$
Physical Data:	
Temperature range:	-55°C to +125°C
Insertion force:	21 pole $\leq 20 \text{ N}$
	32 pole $\leq 30 \text{ N}$
	42 pole $\leq 40 \text{ N}$
	48 pole $\leq 50 \text{ N}$
	60 pole $\leq 57 \text{ N}$
	64 pole $\leq 60 \text{ N}$
	78 pole $\leq 74 \text{ N}$
	96 pole $\leq 90 \text{ N}$
Retention force:	$\geq 0.15 \text{ N/contact pair}$

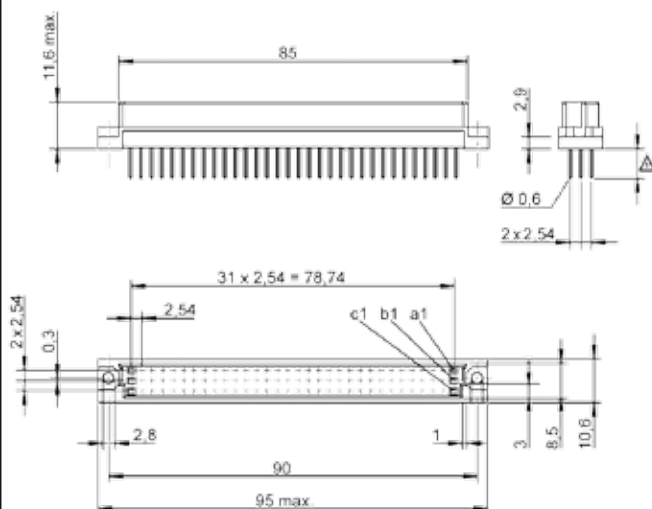
DIN41612 - Type C

Three Row Body

MALE



FEMALE



TERMINATION STYLE:		F	FP	M	MP
Angled solder tail for 1.6 mm thick PCB	A				
Straight solder tail for 1.6 mm thick PCB	D				
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand Solder Eyelet	O				

CONTACT ARRANGEMENTS AND NUMBER OF POSITIONS



	016
	032
	048
	064
	096
	A32
	B32
	X32
	B64
Special Types	Z

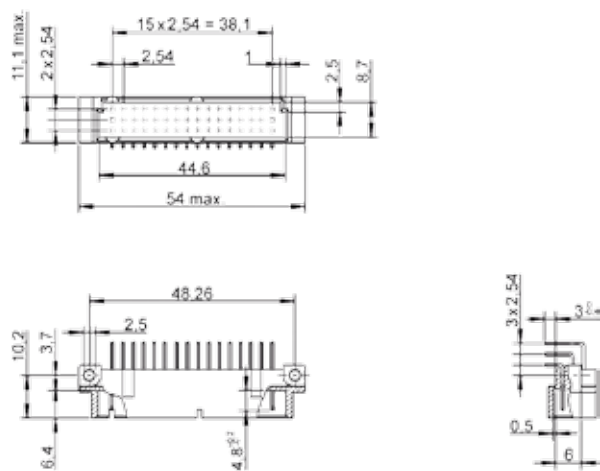
How to order:

DIN	-	C	064	M	S	-	C1	A	-	0,8	/	5	-	001	-	NP
C	CONNECTOR TYPE C Three Row Body 1A															
M	M Male Connector F Female Connector															
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit															
C1	Complete connector with gold contact finish															
0,8	CONTACT FINISH 0.8 0.8 µm hard gold over 2 µm nickel 1.25 1.25 µm hard gold over 2 µm nickel 2.5 2.5 µm hard gold over 3 µm nickel other platings on request															
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1.25 1.25 µm gold over nickel on contact area 0.1 0.1 µm gold over nickel other platings on request															
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.															
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel															

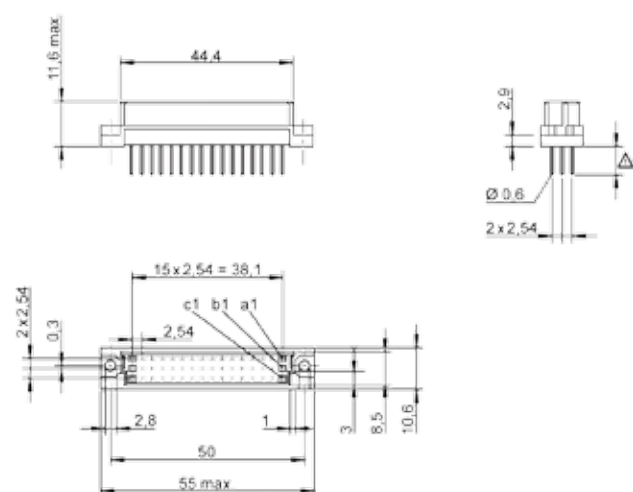
DIN41612 - Type C/2

Half Length Type C / Three Row Body

MALE



FEMALE



TERMINATION STYLE:		F	FP	M	MP
Angled solder tail for 1.6 mm thick PCB	A				
Straight solder tail for 1.6 mm thick PCB	D				
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand Solder Eyelet	O				

CONTACT ARRANGEMENTS AND NUMBER OF POSITIONS



	008
	016
	024
	032
	048
	A16
	B16
	X16
	B32

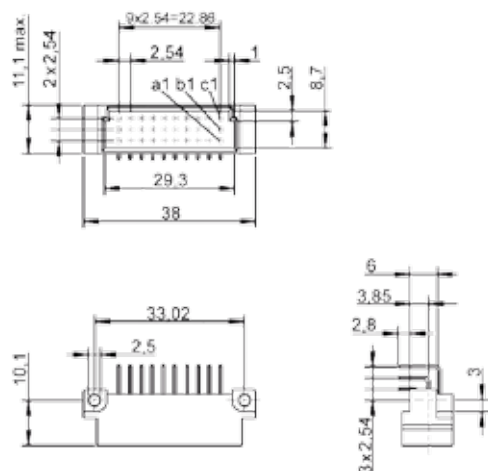
How to order:

DIN	-		C/2	032	M	S	-	C1	A	-	0,8	/	5	-001	-NP
C/2	CONNECTOR TYPE C/2 Three Row Body 1A, Half Length														
M	M Male Connector F Female Connector														
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit														
C1	Complete connector with gold contact finish														
0,8	CONTACT FINISH 0.8 0,8 µm hard gold over 2 µm nickel 1.25 1,25 µm hard gold over 2 µm nickel 2.5 2,5 µm hard gold over 3 µm nickel other platings on request														
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1.25 1,25 µm gold over nickel on contact area 0.1 0.1 µm gold over nickel other platings on request														
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer. E Female Body w/o mounting flanges - Please contact manufacturer.														
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel														

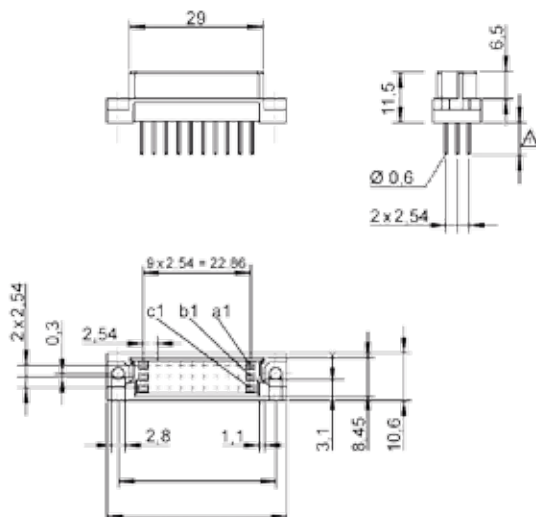
DIN41612 - Type C/3

Complementary Type C / Three Row Body

MALE



FEMALE



TERMINATION STYLE:		F	FP	M	MP
Angled solder tail for 1.6 mm thick PCB	A				
Straight solder tail for 1.6 mm thick PCB	D				
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand Solder Eyelet	O				

CONTACT ARRANGEMENTS AND NUMBER OF POSITIONS



020



030

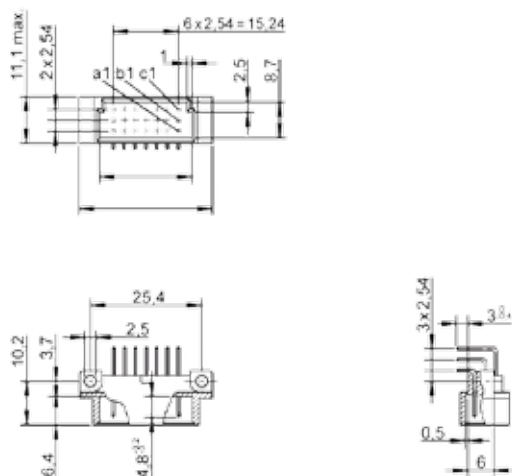
How to order:

DIN	-		C/3	020	M	S	-	C1	A	-	0,8	/	5	-001	-NP
C/3	CONNECTOR TYPE C/3 Three Row Body 1A														
M	M Male Connector F Female Connector														
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit														
C1	Complete connector with gold contact finish														
0,8	CONTACT FINISH 0.8 0,8 µm hard gold over 2 µm nickel 1.25 1,25 µm hard gold over 2 µm nickel 2.5 2,5 µm hard gold over 3 µm nickel other platings on request														
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1.25 1,25 µm gold over nickel on contact area 0.1 0.1 µm gold over nickel other platings on request														
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.														
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel														

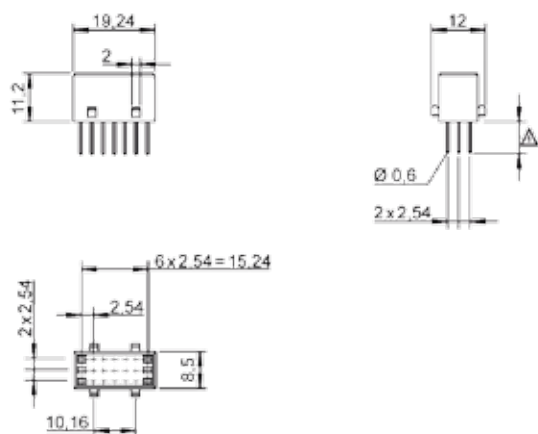
DIN41612 - Type C/4

Quarter Length Type C / Three Row Body

MALE



FEMALE

CONTACT ARRANGEMENTS AND
NUMBER OF POSITIONS

008



012



014



021



A07



B07



X10



B14

Special Types

Z

How to order:

DIN - C/4 014 M S - C1 A - 0,8 / 5 -001 -NP

C/4

CONNECTOR TYPE
C/4 Three Row Body 1A, Quarter Length C

M

M Male Connector
F Female Connector

S

TYPE OF TERMINATION
S Solder
W Wire Wrap
P Press-Fit

C1

Complete connector with gold contact finish

0,8

CONTACT FINISH
0.8 0,8 µm hard gold over 2 µm nickel
1.25 1,25 µm hard gold over 2 µm nickel
2.5 2,5 µm hard gold over 3 µm nickel
other platings on request

5

TERMINATION FINISH
1 1 µm tinlead over nickel on press-in area
5 5 µm tin over nickel
1.25 1,25 µm gold over nickel on contact area
0.1 0.1 µm gold over nickel
other platings on request

-001

MARKING FOR SPECIAL TYPES
Eg First Make – Last Break Option:
Male pins in any row may be extended 0.50 mm for ground before
signal applications, please contact manufacturer.

-NP

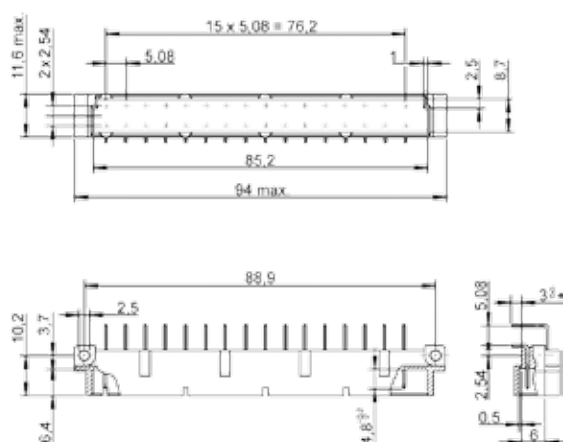
ALTERNATIVE CONTACT FINISH
Gold flash over Nickel Palladium over Nickel

TERMINATION STYLE:		F	FP	M	MP
Angled solder tail for 1.6 mm thick PCB	A				
Straight solder tail for 1.6 mm thick PCB	D				
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand Solder Eyelet	O				

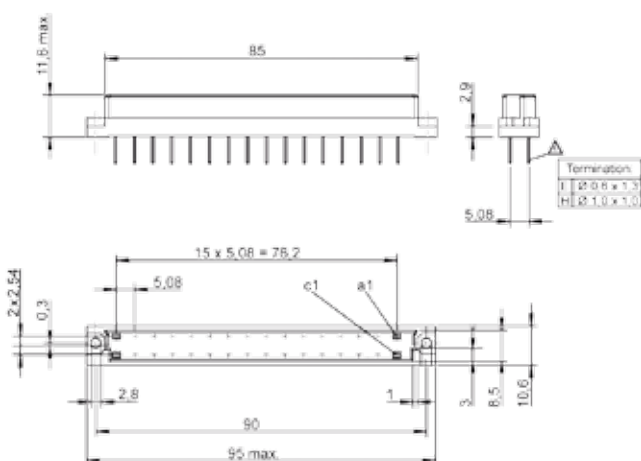
DIN41612 - Type D

Two Row Body

MALE



FEMALE



TERMINATION STYLE:



F

M

Angled solder tail for
1.6 mm thick PCB

A

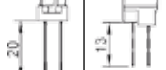
Straight solder tail
for 2.4 mm thick PCB

E



Wire wrap tail

H

CONTACT ARRANGEMENTS AND
NUMBER OF POSITIONS

016



032



A16



C16



X16

Special Types

Z

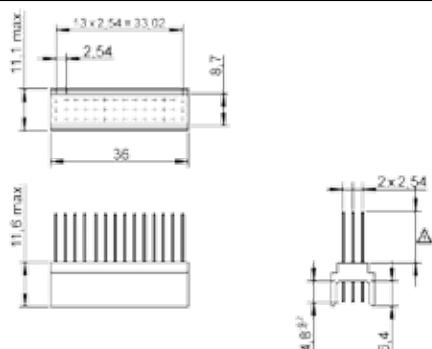
How to order:

DIN	-	D	032	M	S	-	C1	A	-	0,8	/	5	-001	-NP
D	CONNECTOR TYPE D Two Row Body 4A													
M	M Male Connector F Female Connector													
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit													
C1	Complete connector with gold contact finish													
0,8	CONTACT FINISH 0.8 0,8 µm hard gold over 2 µm nickel 1.25 1,25 µm hard gold over 2 µm nickel 2.5 2,5 µm hard gold over 3 µm nickel other platings on request													
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1.25 1,25 µm gold over nickel on contact area 0.1 0.1 µm gold over nickel other platings on request													
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.													
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel													

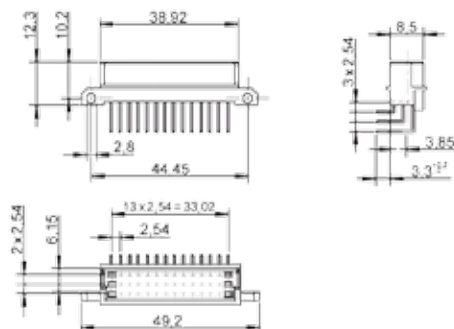
DIN41612 - Type I

Three Row Body

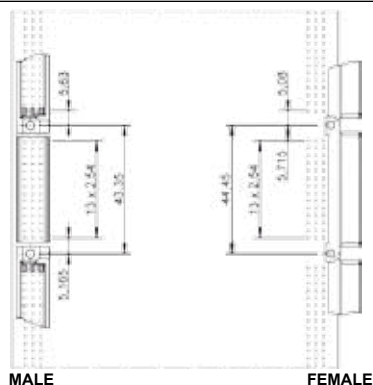
MALE



FEMALE



PCB Layout



MALE

FEMALE

TERMINATION STYLE:		F	MP	M
Angled solder tail for 1.6 mm thick PCB	A			
Straight solder tail for 1.6 mm thick PCB	D			
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E			
Wire wrap tail	F			
Wire wrap tail	H			
Wire wrap tail	L			

CONTACT ARRANGEMENTS AND NUMBER OF POSITIONS



	007
	014
	021
	028
	042
	A14
	B14
	X14
	B28
Special Types	Z

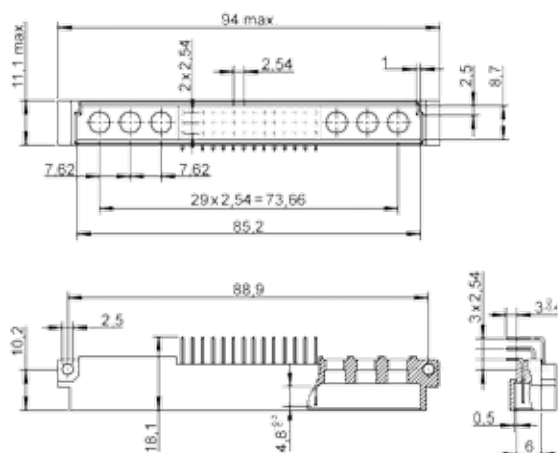
How to order:

DIN	-	I	028	M	S	-	C1	A	-	0,8	/	5	-	001	-	NP
I	CONNECTOR TYPE I Three Row Body 1A															
M	M Male Connector F Female Connector															
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit															
C1	Complete connector with gold contact finish															
0,8	CONTACT FINISH 0.8 0,8 µm hard gold over 2 µm nickel 1.25 1,25 µm hard gold over 2 µm nickel 2.5 2,5 µm hard gold over 3 µm nickel other platings on request															
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1.25 1,25 µm gold over nickel on contact area 0.1 0.1 µm gold over nickel other platings on request															
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.															
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel															

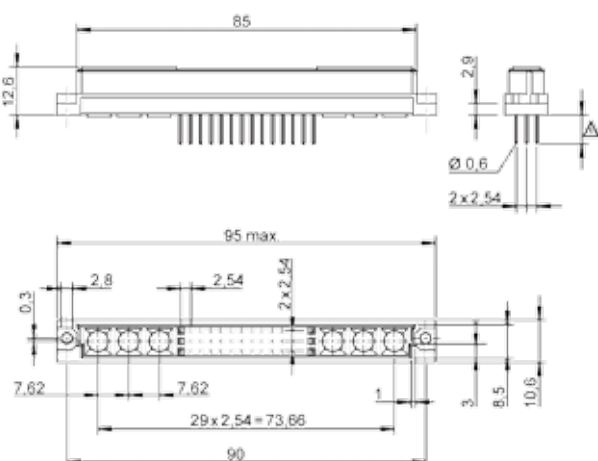
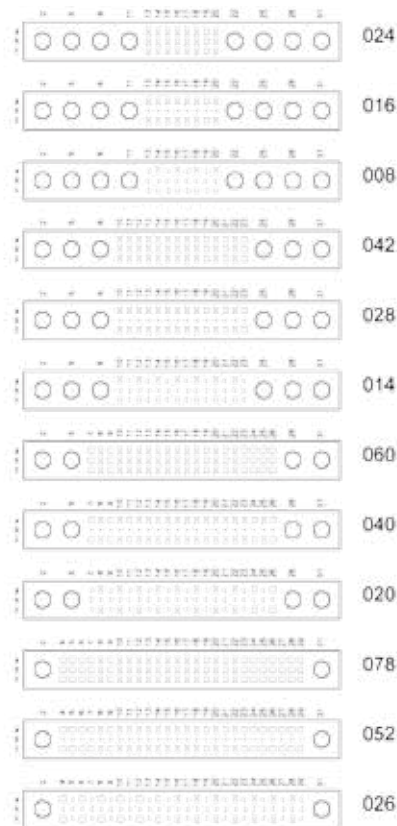
DIN41612 - Type M

Three Row Body

MALE



FEMALE

CONTACT ARRANGEMENTS AND
NUMBER OF POSITIONS

How to order:

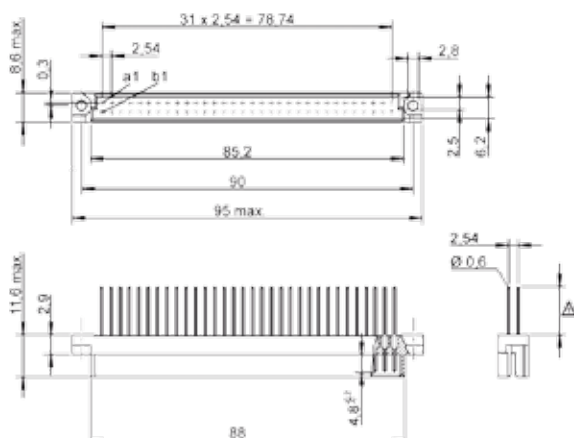
DIN	M	052	M	S	C1	A	0,8	5	-001	-NP
M	CONNECTOR TYPE M Three Row Body 4A									
M	M Male Connector F Female Connector									
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit									
C1	Complete connector with gold contact finish									
0,8	CONTACT FINISH 0,8 0,8 µm hard gold over 2 µm nickel 1,25 1,25 µm hard gold over 2 µm nickel 2,5 2,5 µm hard gold over 3 µm nickel other platings on request									
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1,25 1,25 µm gold over nickel on contact area 0,1 0,1 µm gold over nickel other platings on request									
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.									
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel									

TERMINATION STYLE:	△	F	FP	M	MP
Angled solder tail for 1.6 mm thick PCB	A				
Straight solder tail for 1.6 mm thick PCB	D				
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E				
Wire wrap tail	F				
Wire wrap tail	H				
Hand Solder Eyelet	O				

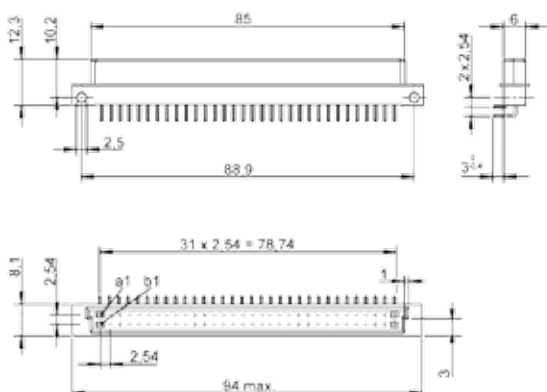
DIN41612 - Type Q

Two Row Body

MALE



FEMALE



CONTACT ARRANGEMENTS AND NUMBER OF POSITIONS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
b	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

016

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
b	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

032

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
b	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

064

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
b	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

A32

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
b	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

B32

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
b	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

X32

How to order:

DIN	-	Q	064	M	S	-	C1	A	-	0,8	/	5	-001	-NP
-----	---	---	-----	---	---	---	----	---	---	-----	---	---	------	-----

Q	CONNECTOR TYPE Q Two Row Body 1A
---	-------------------------------------

M	M Male Connector F Female Connector
---	--

S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit
---	---

C1	Complete connector with gold contact finish
----	---

0,8	CONTACT FINISH 0.8 0,8 µm hard gold over 2 µm nickel 1.25 1,25 µm hard gold over 2 µm nickel 2.5 2,5 µm hard gold over 3 µm nickel other platings on request
-----	--

5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1.25 1,25 µm gold over nickel on contact area 0.1 0.1 µm gold over nickel other platings on request
---	--

-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.
------	---

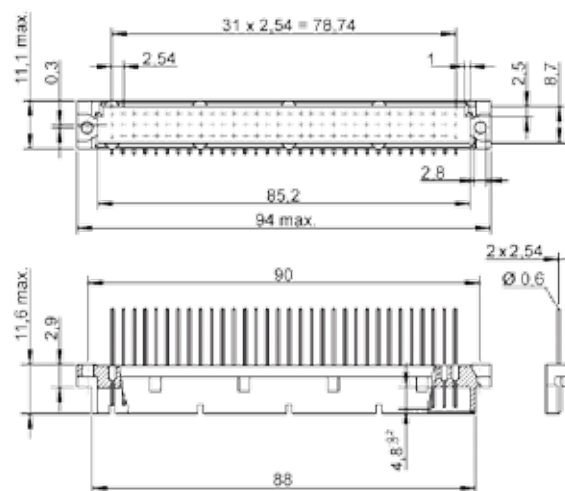
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel
-----	--

TERMINATION STYLE:		F	M	
Angled solder tail for 1.6 mm thick PCB	A			
Straight solder tail for 1.6 mm thick PCB	D			
Straight solder tail for 2.4 mm thick PCB	E			
Wire wrap tail	F			
Wire wrap tail	H			

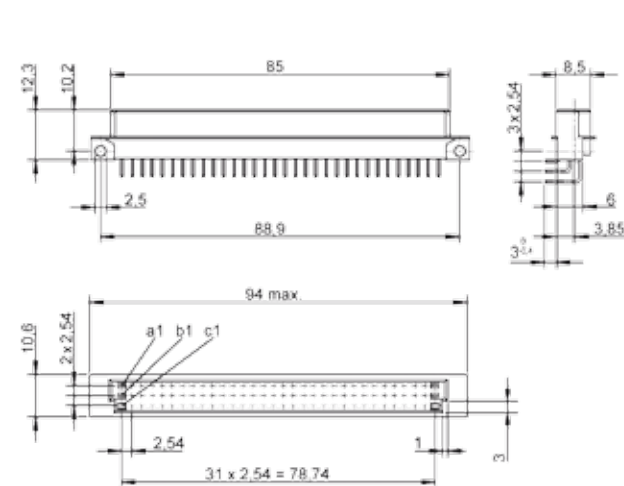
DIN41612 - Type R

Three Row Body - Reversed

MALE



FEMALE



TERMINATION STYLE:		F	MP	M
Angled solder tail for 1.6 mm thick PCB	A			
Straight solder tail for 1.6 mm thick PCB	D			
Straight solder tail for 2.4 mm thick PCB (Press-in from 1.5 to 4.0 mm)	E			
Wire wrap tail	F			
Wire wrap tail	H			
Wire wrap tail	L			

CONTACT ARRANGEMENTS AND NUMBER OF POSITIONS

	016
	032
	048
	064
	096
	A32
	B32
	X32
	B64
Special Types	Z

How to order:

DIN	-	R	064	M	S	-	C1	E	-	0,8	/	5	-	001	-	NP
R	CONNECTOR TYPE I Three Row Body 1A															
M	M Male Connector F Female Connector															
S	TYPE OF TERMINATION S Solder W Wire Wrap P Press-Fit															
C1	Complete connector with gold contact finish															
0,8	CONTACT FINISH 0,8 0,8 µm hard gold over 2 µm nickel 1,25 1,25 µm hard gold over 2 µm nickel 2,5 2,5 µm hard gold over 3 µm nickel other platings on request															
5	TERMINATION FINISH 1 1 µm tinlead over nickel on press-in area 5 5 µm tin over nickel 1,25 1,25 µm gold over nickel on contact area 0,1 0,1 µm gold over nickel other platings on request															
-001	MARKING FOR SPECIAL TYPES Eg First Make – Last Break Option: Male pins in any row may be extended 0.50 mm for ground before signal applications, please contact manufacturer.															
-NP	ALTERNATIVE CONTACT FINISH Gold flash over Nickel Palladium over Nickel															

HARD METRIC CONNECTORS

Type A, B, C & AB Versions

Material:

Connector Housing:	Glass-fibre Filled PBT, Grey UL94 V-0 Class
Contacts & Plating:	Copper Alloy, Gold over Nickel or Nickel-Palladium over Nickel
Performance:	Level 1: (Au / NiPd 1,25µm) Level 2: (Au / NiPd 0,8µm)
Press-in Zone Plating:	Tinlead over Nickel

Electrical Specifications:

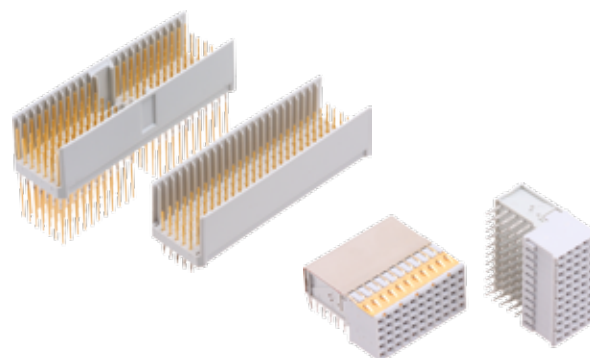
Current Rating:	1 Amp at 70°C
Insulation Resistance:	10G Ω Min.
Contact Resistance:	20 mΩ Max. (Initial)
Operating Temperature:	-55°C to +125°C

Physical Specifications:

Press-in Force:	26 ± 6N/pin on nominal diam. (0,6 ± 0,05mm)
Retention Force:	20 ± 5N/pin on nominal diam. (0,6 ± 0,05mm)
Mating Force:	0,75N/contact Max.
Unmating Force:	0,15N/contact min.

PCB Data:

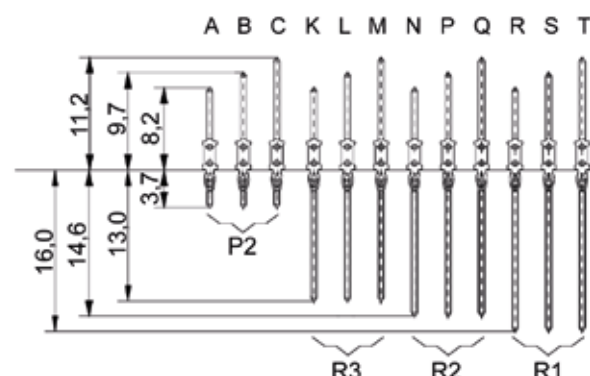
Through-Holes:	0,6 ± 0,05mm
Recommended Plating:	Cu 25-50µm, Sn or SnPb < 10µm
PCB Thickness:	1,4 - 5,6mm



Type A:	110 signal contacts, 22 columns 110 signal + 44 grounding contacts, 22 columns
Type B:	55 signal contacts, 11 columns 55 signal + 22 grounding contacts, 11 columns 95 signal contacts, 19 columns 95 signal + 38 grounding contacts, 19 columns 110 signal contacts, 22 columns 110 signal + 44 grounding contacts, 22 columns 125 signal contacts, 25 columns 125 signal + 50 grounding contacts, 25 columns
Type C:	55 signal contacts, 11 columns 55 signal + 22 grounding contacts, 11 columns
Type AB:	95 signal contacts, 19 columns 95 signal + 32 grounding contacts, 19 columns 125 signal contacts, 25 columns 125 signal + 44 grounding contacts, 25 columns

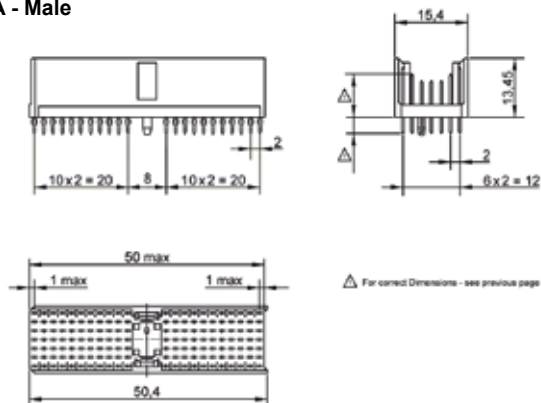
Features:

- According to IEC 61076-4-101 and IEC 917
- 25mm basic system unit
- High contact density with 2mm grid spacing
- 50mm connector module
- Three different contact levels on Male A, B & AB Type Available
- Different termination lengths available
- All terminations with press-fit design
- Plated through-hole diameter 0,6mm
- Available with grounding rows
- Different coding devices available

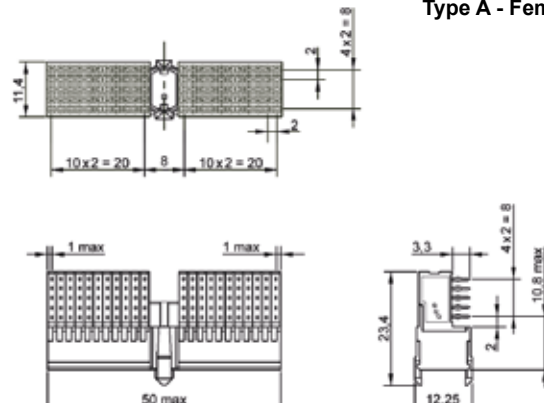


Mechanical dimensions:

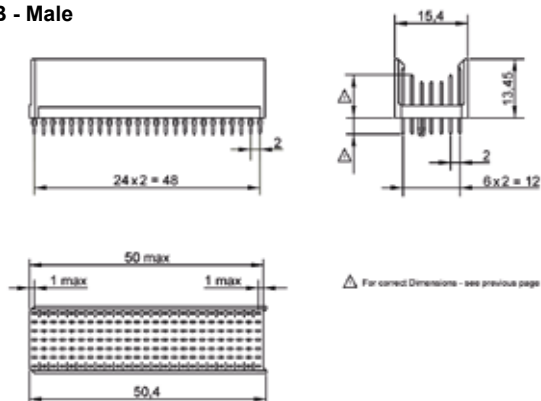
Type A - Male



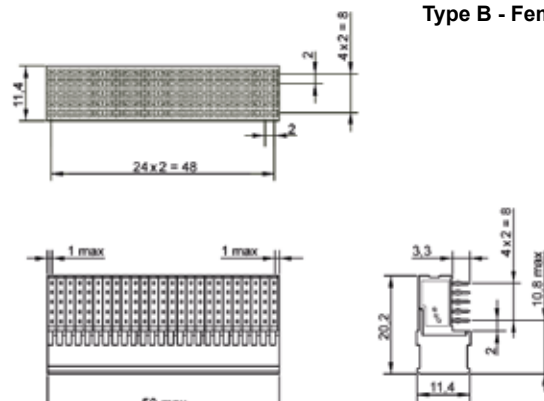
Type A - Female



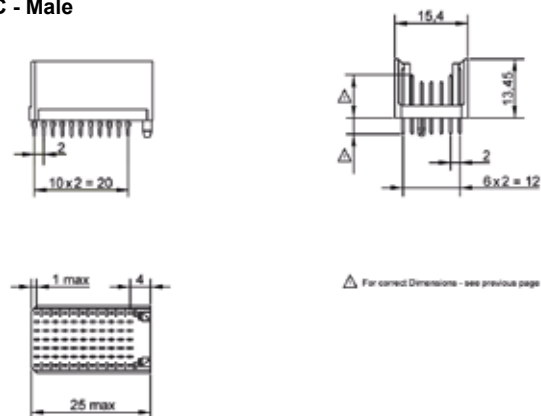
Type B - Male



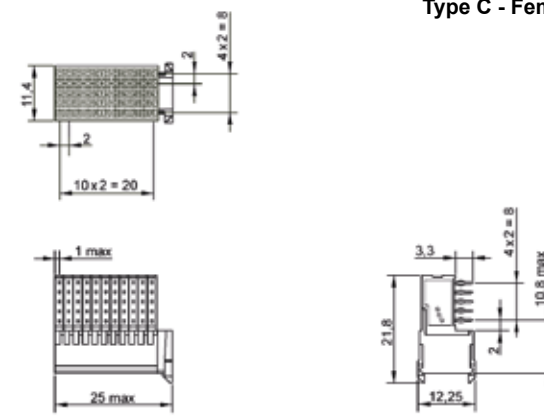
Type B - Female



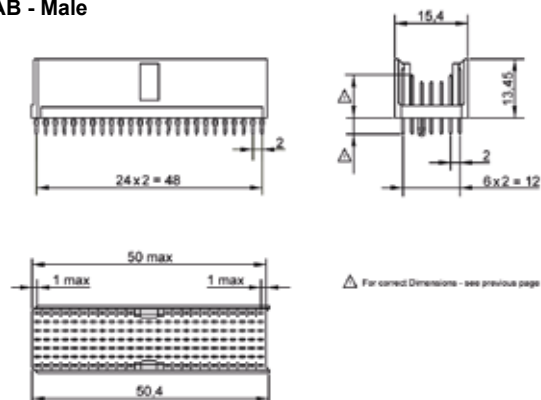
Type C - Male



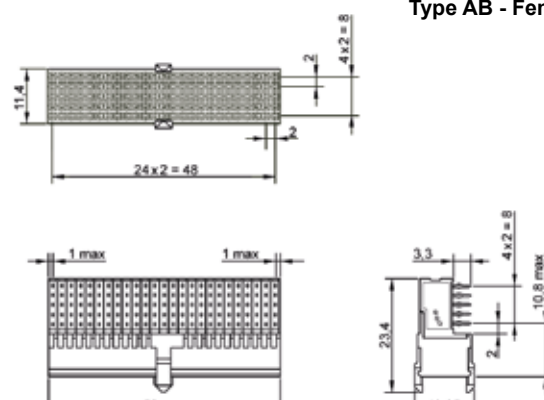
Type C - Female



Type AB - Male



Type AB - Female



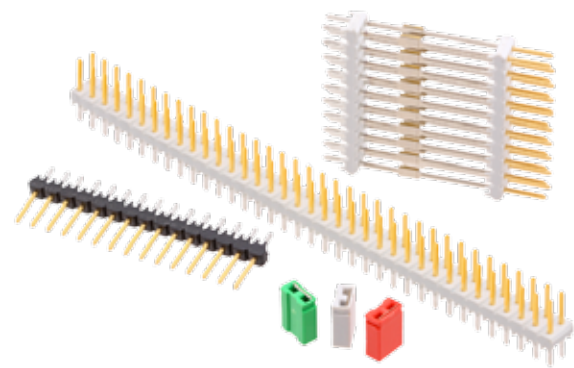
Material:

Connector Housing:	Glass-fiber Filled Polyester UL 94 V-0
Contacts & Plating:	Copper Alloy Gold over Nickel or Gold Flash over Nickel-Palladium over Nickel

Electrical Specifications:

Current Rating:	3 Amp at 20°C
Insulation Resistance:	≥ 10G Ω.
Proof Voltage:	Contact/contact 1000 V (rms)
Operating Temperature:	-55°C to +125°C

Accessories upon request



How to order:

PBBC 020MS - C1 - 19 - 0,8/5*

020MS	LOAD & TYPE 20pin Male Connector
19	HEIGHT 19mm Other length according to list
0,8/5	TERMINATION FINISH 0,8/5 0,8 µm Hard Gold on contact area + 5 µm Sn on tails. 2,5/5 2,5 µm Hard Gold on contact area + 5 µm Sn on tails. (According to MIL-G-45204 B)

Female PBBC - Same as PLP - Female Version

How to order:

PLP 010MS - C1D - 0,8/5 - P

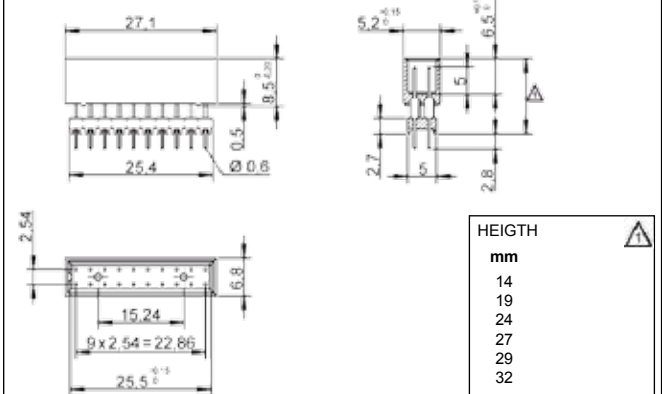
010MS	LOAD & TYPE 010MS 10pin Male Connector 020MS 20pin Male Connector
0,8/5	TERMINATION FINISH 0,8/5 0,8 µm Hard Gold on contact area + 5 µm Sn on tails. 2,5/5 2,5 µm Hard Gold on contact area + 5 µm Sn on tails. (According to MIL-G-45204 B)
P	P POLARIZED FORM ON REQUEST

How to order:

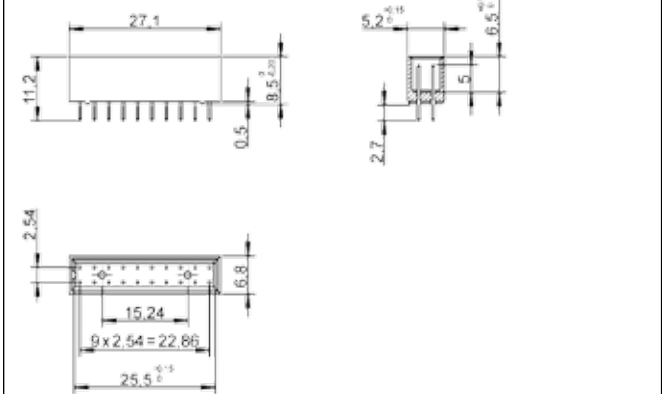
PLP 010FS - C1D - 0,8/5 - P

010FS	LOAD & TYPE 010FS 10pin Female Connector 020FS 20pin Female Connector
0,8/5	TERMINATION FINISH 0,8/5 0,8 µm Hard Gold on contact area + 5 µm Sn on tails. 2,5/5 2,5 µm Hard Gold on contact area + 5 µm Sn on tails. (According to MIL-G-45204 B)
P	P POLARIZED FORM ON REQUEST

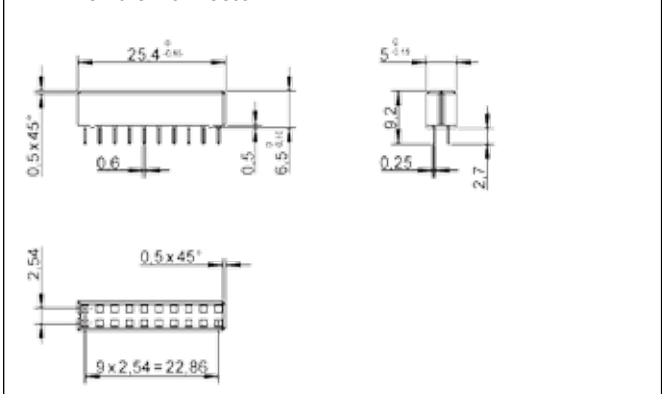
PBBC - Male Connector



PLP - Male Connector



PLP - Female Connector



How to order:

PMH 15,3 - 1 X 32 - 5

15,3

PIN LENGTH
15,3 (A mm)



1

NUMBER OF ROWS
1 1 Row
2 2 Rows

32

No. OF PINS IN ONE ROW
32 Standard
1-31 On Request

5

TERMINATION FINISH
0,8/5 0,8 µm Au on contact area + 5 µm Sn on tails. Grey Body
0,2/5 0,2 µm Au on contact area + 5 µm Sn on tails. Black Body
5 5 µm Sn on contact area and tails. Black Body
Other platings on request

How to order:

PMH 8,8/19,8 - 2 X 18 - 0,8/5

8,8/19,8

PIN LENGTH (A): 19,8mm
SPACING HEIGHT (B): 8,8mm



2

NUMBER OF ROWS
1 1 Row
2 2 Rows

18

No. OF PINS IN ONE ROW
1-32 On Request

0,8/5

TERMINATION FINISH
0,8/5 0,8 µm Au on contact area + 5 µm Sn on tails. Grey Body
0,2/5 0,2 µm Au on contact area + 5 µm Sn on tails. Black Body
5 5 µm Sn on contact area and tails. Black Body
Other platings on request

How to order:

PMH 6 - 1 X 36 - 0,8/5

6

PIN LENGTH 6 mm
Other length on request

1

NUMBER OF ROWS
1 1 Row
2 2 Rows

36

No. OF PINS IN ONE ROW
36 Standard
1-35 On Request

0,8/5

TERMINATION FINISH
0,8/5 0,8 µm Au on contact area + 5 µm Sn on tails. Grey Body
0,2/5 0,2 µm Au on contact area + 5 µm Sn on tails. Black Body
5 5 µm Sn on contact area and tails. Black Body
Other platings on request

How to order:

PHD 8,7/15,3 - 1 X 14 - 5

8,7/15,3

LENGTH OF PIN (A): 15,3mm
SPACING HEIGHT (B): 8,7mm



1

NUMBER OF ROWS
1 1 Row
2 2 Rows

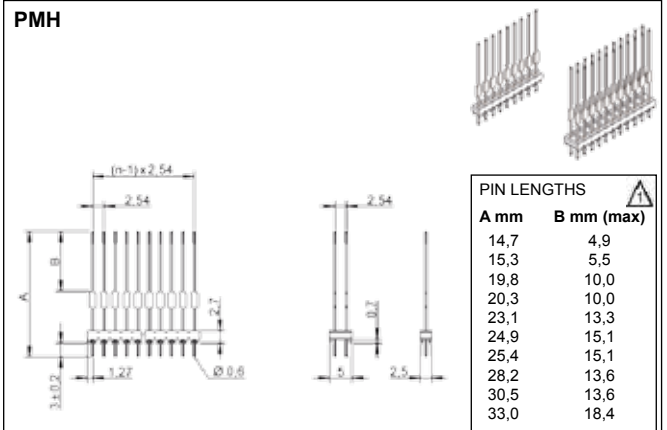
14

No. OF PINS IN ONE ROW
1-32 On Request

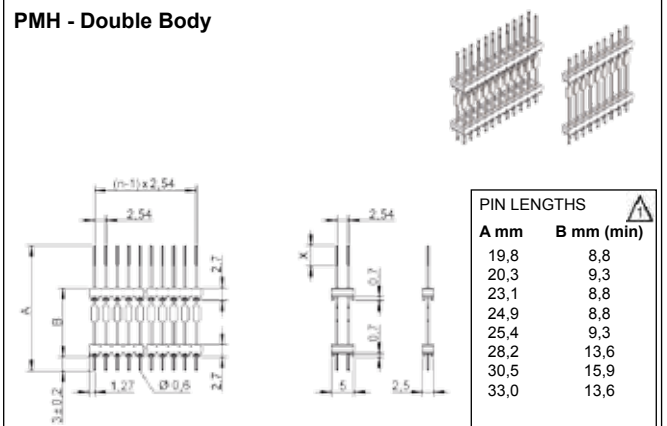
5

TERMINATION FINISH
0,8/5 0,8 µm Au on contact area + 5 µm Sn on tails. Grey Body
0,2/5 0,2 µm Au on contact area + 5 µm Sn on tails. Black Body
5 5 µm Sn on contact area and tails. Black Body
Other platings on request

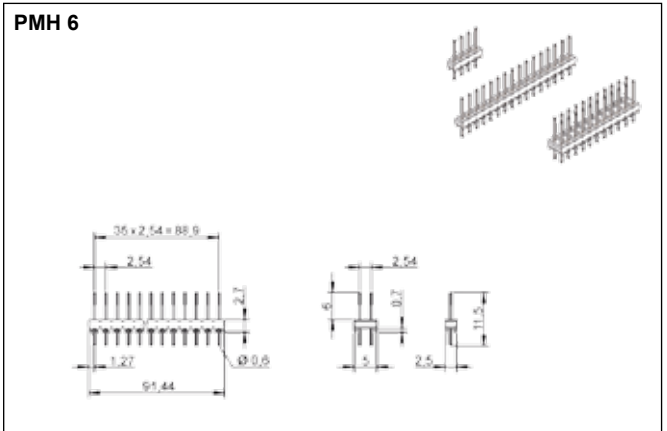
PMH



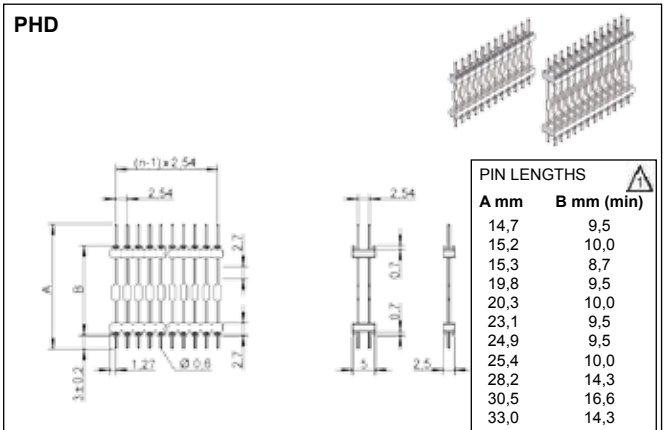
PMH - Double Body



PMH 6



PHD



Male, Single Row

2,0mm PCB Connectors, straight or Angled

Technical Specifications:

Bodymaterial: PBT, 30% Glass Filled
 UL 94 V-0 Black/Grey
 Contacts: Phosphor-Bronze,
 Goldflash 0,2µ min. over Nickel (Contact zone)
 Goldflash 2µ min. over Nickel (Termination zone)
 Working voltage: 120 V AC
 Current / Contact: 3 Amp
 Contact resistance: 20mΩ max

Test Voltage: 360 V AC

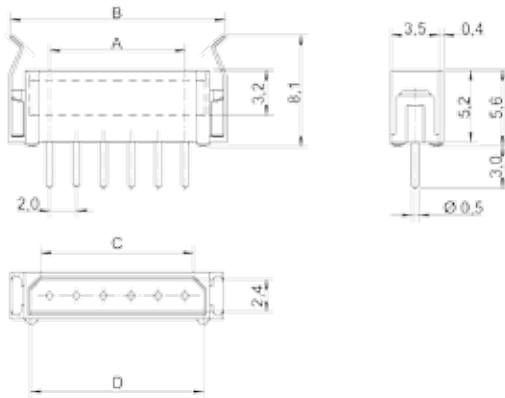
Connectors available in 2,3,4,5,6,7,8 and 10 positions.

Parts are supplied without latches in standard versions. Latches can be fitted onto parts on request. (Se page 135 for suitable Latches)



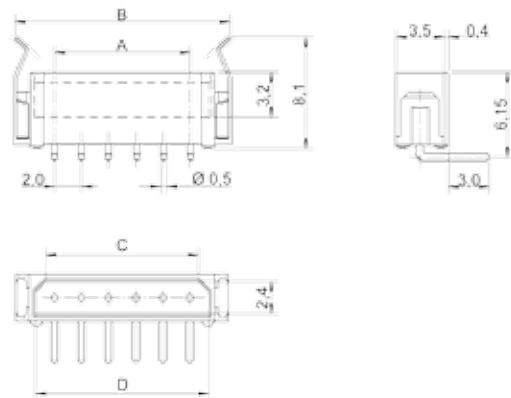
Note: PCB Locking Clamp is attached with Angled version.

Straight Single Row Connector



Size	A	B	C	D
02	2,0	7,3	3,3	4,8
03	4,0	9,3	5,3	6,8
04	6,0	11,3	7,3	8,8
05	8,0	13,3	9,3	10,8
06	10,0	15,3	11,3	12,8
07	12,0	17,3	13,3	14,8
08	14,0	19,3	15,3	16,8
10	18,0	23,3	19,3	20,8

Angled Single Row Connector



Size	A	B	C	D
02	2,0	7,3	3,3	4,8
03	4,0	9,3	5,3	6,8
04	6,0	11,3	7,3	8,8
05	8,0	13,3	9,3	10,8
06	10,0	15,3	11,3	12,8
07	12,0	17,3	13,3	14,8
08	14,0	19,3	15,3	16,8
10	18,0	23,3	19,3	20,8

Ordering information:

Straight Type

Size	Name:	Part No:
02	HS-02DS-0070	3700-0001-01
03	HS-03DS-0070	3700-0001-02
04	HS-04DS-0070	3700-0001-03
05	HS-05DS-0070	3700-0001-04
06	HS-06DS-0070	3700-0001-05
07	HS-07DS-0070	3700-0001-06
08	HS-08DS-0070	3700-0001-07
10	HS-10DS-0070	3700-0001-08

Ordering information:

Angled Type

Size	Name:	Part No:
02	HS-02DS-1070	3700-0002-01
03	HS-03DS-1070	3700-0002-02
04	HS-04DS-1070	3700-0002-03
05	HS-05DS-1070	3700-0002-04
06	HS-06DS-1070	3700-0002-05
07	HS-07DS-1070	3700-0002-06
08	HS-08DS-1070	3700-0002-07
10	HS-10DS-1070	3700-0002-08

Male, Double Row

2,0mm PCB Connectors, straight or Angled

Technical Specifications:

Bodymaterial: PBT, 30% Glass Filled
UL 94 V-0 Black/Grey
Contacts: Phosphor-Bronze,
Goldflash 0,2µ min. over Nickel (Contact zone)
Goldflash 2µ min. over Nickel (Termination zone)
Working voltage: 120 V AC
Current / Contact: 3 Amp
Contact resistance: 20mΩ max

Test Voltage: 360 V AC

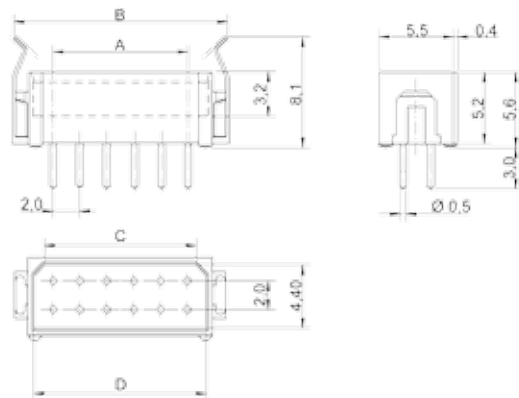
Connectors available in 2,3,4,5,6,7,8 and 10 positions.

Parts are supplied without latches in standard versions. Latches can be fitted onto parts on request. (Se page 135 for suitable Latches)



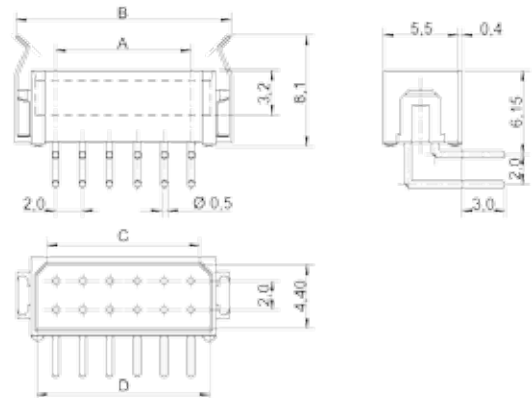
Note: PCB Locking Clamp is attached with Angled version.

Straight Dual Row Connector



Size	A	B	C	D
04	2,0	7,6	3,3	4,8
06	4,0	9,6	5,3	6,8
08	6,0	11,6	7,3	8,8
10	8,0	13,6	9,3	10,8
06	10,0	15,6	11,3	12,8
12	12,0	17,6	13,3	14,8
16	14,0	19,6	15,3	16,8
26	24,0	29,6	25,3	26,8
34	32,0	37,6	33,3	34,8

Angled Dual Row Connector



Size	A	B	C	D
04	2,0	7,6	3,3	4,8
06	4,0	9,6	5,3	6,8
08	6,0	11,6	7,3	8,8
10	8,0	13,6	9,3	10,8
06	10,0	15,6	11,3	12,8
12	12,0	17,6	13,3	14,8
16	14,0	19,6	15,3	16,8
26	24,0	29,6	25,3	26,8
34	32,0	37,6	33,3	34,8

Ordering information:

Straight Type

Size	Name:	Part No:
04	HD-04DS-0070	3700-0003-01
06	HD-06DS-0070	3700-0003-02
08	HD-08DS-0070	3700-0003-03
10	HD-10DS-0070	3700-0003-04
12	HD-12DS-0070	3700-0003-05
14	HD-14DS-0070	3700-0003-06
16	HD-16DS-0070	3700-0003-07
26	HD-26DS-0070	3700-0003-08
34	HD-34DS-0070	3700-0003-09

Ordering information:

Angled Type

Size	Name:	Part No:
04	HD-04DS-1070	3700-0004-01
06	HD-06DS-1070	3700-0004-02
08	HD-08DS-1070	3700-0004-03
10	HD-10DS-1070	3700-0004-04
12	HD-12DS-1070	3700-0004-05
14	HD-14DS-1070	3700-0004-06
16	HD-16DS-1070	3700-0004-07
26	HD-26DS-1070	3700-0004-08
34	HD-34DS-1070	3700-0004-09

Features:

2,0mm PBC Connectors, Straight or Angled
Suitable to mate with Male 2,0mm PCB Connectors

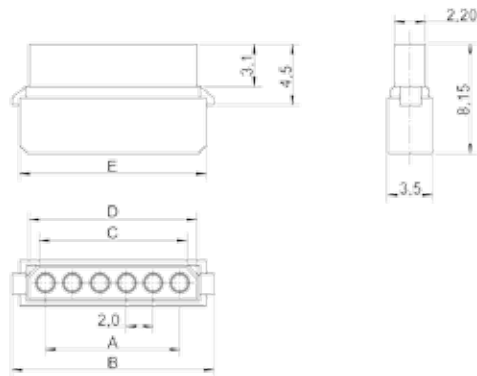
Technical Specifications:

Material: PBT, 30% Glass Filled
UL 94 V-0 Black/Grey
Insulations resistance: 1000 MΩ min

Parts are supplied without mounted contact pins.
Contact pins and accessories are listed on next page.

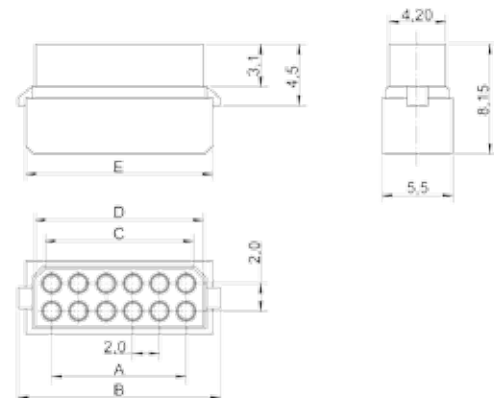


Single Row Connector



Size	A	B	C	D	E
02	2,0	7,3	3,0	4,5	5,9
03	4,0	9,3	5,0	6,5	7,9
04	6,0	11,3	7,0	8,5	9,9
05	8,0	13,3	9,0	10,5	11,9
06	10,0	15,3	11,0	12,5	13,9
07	12,0	17,3	13,0	14,5	15,9
08	14,0	19,3	15,0	16,5	17,9
10	18,0	23,3	19,0	20,5	21,9

Dual Row Connector



Size	A	B	C	D	E
04	2,0	7,3	3,0	4,5	5,9
06	4,0	9,3	5,0	6,5	7,9
08	6,0	11,3	7,0	8,5	9,9
10	8,0	13,3	9,0	10,5	11,9
06	10,0	15,3	11,0	12,5	13,9
12	12,0	17,3	13,0	14,5	15,9
16	14,0	19,3	15,0	16,5	17,9
26	24,0	29,3	25,0	26,5	27,9
34	32,0	37,3	33,0	34,5	35,9

Ordering information:

Single Row

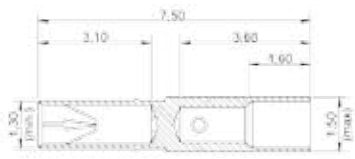
Size	Name:	Part No:
02	HS-02KK-0000	3700-0005-01
03	HS-03KK-0000	3700-0005-02
04	HS-04KK-0000	3700-0005-03
05	HS-05KK-0000	3700-0005-04
06	HS-06KK-0000	3700-0005-05
07	HS-07KK-0000	3700-0005-06
08	HS-08KK-0000	3700-0005-07
10	HS-10KK-0000	3700-0005-08

Ordering information:

Double Row

Size	Name:	Part No:
04	HD-04KK-0000	3700-0006-01
06	HD-06KK-0000	3700-0006-02
08	HD-08KK-0000	3700-0006-03
10	HD-10KK-0000	3700-0006-04
12	HD-12KK-0000	3700-0006-05
14	HD-14KK-0000	3700-0006-06
16	HD-16KK-0000	3700-0006-07
26	HD-26KK-0000	3700-0006-08
34	HD-34KK-0000	3700-0006-09

Accessories 2,0mm PCB

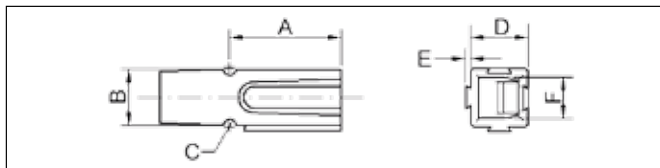
		<table><tr><th colspan="2">Connector Terminals</th><th>AWG 24-28</th></tr><tr><td>ST-00KT-0030</td><td colspan="2">3700-0100-01</td></tr><tr><td>Contact material:</td><td colspan="2">CuZn36Pb3</td></tr><tr><td>Plating:</td><td colspan="2">Gold Flash over 1,27µ Ni.</td></tr><tr><td>Spring Clip</td><td colspan="2">BeCu, 0,25µ Au over 1,27µ Ni</td></tr></table>	Connector Terminals		AWG 24-28	ST-00KT-0030	3700-0100-01		Contact material:	CuZn36Pb3		Plating:	Gold Flash over 1,27µ Ni.		Spring Clip	BeCu, 0,25µ Au over 1,27µ Ni	
Connector Terminals		AWG 24-28															
ST-00KT-0030	3700-0100-01																
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Spring Clip	BeCu, 0,25µ Au over 1,27µ Ni																
		<table><tr><th colspan="2">Positiv Lock Latches</th></tr><tr><td>HL-00PL-0000</td><td>3700-0200-01</td></tr></table>	Positiv Lock Latches		HL-00PL-0000	3700-0200-01											
Positiv Lock Latches																	
HL-00PL-0000	3700-0200-01																
		<table><tr><th colspan="2">Friction Lock Latches</th></tr><tr><td>HL-00FL-0000</td><td>3700-0200-02</td></tr></table>	Friction Lock Latches		HL-00FL-0000	3700-0200-02											
Friction Lock Latches																	
HL-00FL-0000	3700-0200-02																
		<table><tr><th colspan="2">PCB Locking Metal Clamp</th></tr><tr><td>HB-00MC-0000</td><td>3700-0200-03</td></tr></table>	PCB Locking Metal Clamp		HB-00MC-0000	3700-0200-03											
PCB Locking Metal Clamp																	
HB-00MC-0000	3700-0200-03																

For connector terminals - we can supply Hand Crimp Tools, Positioner for Hand Crimp Tools, Insertion Tool and Extraction Tools. Please contact your local Sales office for further assistance.

FLAT PIN CONNECTORS - Powerpole® SERIES

TECHNICAL SPECIFICATIONS

Housing:	Polycarbonate
Contacts:	Copper
Contact Plating:	Tin/Silver
Spring:	Stainless Steel
Flammability Rating:	UL94 V-0
Operating Temperature Range:	-20°C to 105°C
Insulation Withstanding Test:	2200 VDC
Vibration Resistance:	Excellent
Mating Cycles:	10.000 (For disconnect use only)



Model:	A	B	C	D	E	F
15/30/45 A	14,70	8,40	1,30	7,90	0,50	5,00
75 A	29,70	16,30	2,50	16,0	1,00	11,40
120 A	42,90	22,60	2,50	22,30	1,50	15,20
180 A	54,10	28,70	2,50	28,40	1,50	23,10



Features:

- Cost Effective Reliability
- Genderless Connectors
- Provides 600 Volts Continuous AC or DC
- Contacts on REEL or loose piece design
- Low Detent (LD) contacts are also offered for low insertion/withdrawal force applications

Order Codes:

15/25*/30/45 Amp Housings

No:	Colour:	Part No:
1327*	Red	4530-0101-01
1327G5*	Green	4530-0101-02
1327G6*	Black	4530-0101-03
1327G7*	White	4530-0101-04
1327G8*	Blue	4530-0101-05
1327G16*	Yellow	4530-0101-06
1327G17	Orange	4530-0101-07
1327G18	Grey	4530-0101-08
1327G21	Brown	4530-0101-09
1327G22	Pink	4530-0101-10
1327G23	Purple	4530-0101-11

15 Amp Contacts: AWG

Individual - LD	16/20	4530-0001-01
Individual - HD	16/20	4530-0001-02
REEL - LD	16/20	4530-1000-01
REEL - HD	16/20	4530-2000-01
Superflex REEL-LD	16/20	4530-3000-01
Superflex REEL-HD	16/20	4530-4000-01

30 Amp Contacts: AWG

Individual - LD	12/16	4530-0002-01
Individual - HD	12/16	4530-0002-02
REEL - LD	12/16	4530-1000-02
REEL - HD	12/16	4530-2000-02
Superflex REEL-LD	16/20	4530-3000-01
Superflex REEL-HD	16/20	4530-4000-01

45 Amp Contacts: AWG

Individual - LD	10/14	4530-0003-01
REEL - LD	10/14	4530-1000-03
REEL - HD	10/14	4530-2000-03
Superflex REEL-LD	10/14	4530-3000-02
Superflex REEL-HD	10/14	4530-4000-02

75 Amp Housings

No:	Colour:	Part No:
5916	Blue	4530-0102-01
5916G4	Black	4530-0102-02
5916G5	White	4530-0102-03
5916G6	Green	4530-0102-04
5916G7	Red	4530-0102-05

75 Amp - Locking Housings

Housings:	Colour:	Part No:
75LOKBLU	Blue	4530-0102-06
75LOKGRA	Grey	4530-0102-07
75LOKBLK	Black	4530-0102-08
75LOKGRN	Green	4530-0102-09
75LOKYEL	Yellow	4530-0102-10
75LOKWHT	White	4530-0102-11

75 Amp Contacts: AWG

Individual - LD	6	4530-0004-01
Individual - LD	10/12	4530-0004-02
Individual - HD	6	4530-0004-03
Individual - HD	8	4530-0004-04
Individual - HD	10	4530-0004-05
Individual - HD	10/12	4530-0004-05
REEL, Silver - LD	6/8	4530-1000-04
REEL, Silver - LD	10/12	4530-1000-05
REEL, Tin - LD	6/8	4530-1000-06
REEL, Tin - LD	10/12	4530-1000-07
REEL, Silver - HD	6/8	4530-2000-04
REEL, Silver - HD	10/12	4530-2000-05
REEL, Tin - HD	6/8	4530-2000-06
REEL, Tin - HD	10/12	4530-2000-07
Set of 2pcs 4530-0004-02	6	4560-0004-03
Set of 2pcs 4530-0004-04	10/12	4560-0004-06
Bus Bar Contact	-	4530-0050-01

FLAT PIN CONNECTORS - Powerpole® SERIES

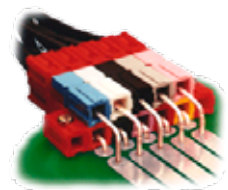
Order Codes:

120 Amp Housings		
No:	Colour:	Part No:
1321	Blue	4530-0103-01
1321G1	Black	4530-0103-02
1321G2	White	4530-0103-03
1321G3	Red	4530-0103-04
1321G4	Green	4530-0103-05
120 Amp Contacts:		
AWG		
Individual	2	4530-0005-01
Individual	4	4530-0005-02
Individual	6	4530-0005-03
Individual	1	4530-0005-04
Individual	1/0	4530-0005-05

180 Amp Housings		
No:	Colour:	Part No:
1381	Blue	4530-0104-01
1381G1	Black	4530-0104-02
1381G2	White	4530-0104-03
1381G3	Red	4530-0104-04
1381G4	Green	4530-0104-05
180 Amp Contacts:		
AWG		
Individual	1	4530-0006-01
Individual	6	4530-0006-02
Individual	1/0	4530-0006-03
Individual	2	4530-0006-04
Individual	4	4530-0006-05
Extended Range	2/0	4530-0006-06
Extended Range	3/0	4530-0006-07
Bus Bar Contact	-	4530-0050-02

Order Codes 25 Amp Angled PCB Contacts: (Suit Housings 1327xx * on previous page)

Right Angle Contacts:

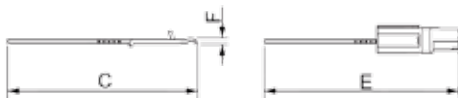


Type:	A mm	B mm	D mm
1377G1	36.8	17.8	38.6
1377G2	33.0	10.2	34.5
1377G11	29.0	17.8	30.7
1377G12	24.2	10.2	25.7
1377G14	33.0	4.6	34.5
1377G15	29.0	25.9	30.7
1377G16	24.1	18.3	25.4
1377G17	29.0	22.4	30.7
1377G18	25.4	14.7	27.2
1317G1	36.8	17.8	38.6
1317G2	33.0	10.2	34.5
1317G11	29.0	17.8	30.7
1317G14	33.0	4.6	34.5
1317G15	29.0	25.9	30.7
1317G16	24.1	18.3	25.4
1317G17	29.0	22.4	30.7
1317G18	25.4	14.7	27.2

25 Amp Angled Pins:			
1377G1	LD	Right Angle	4530-0007-01
1377G2	LD	Right Angle	4530-0007-02
1377G11	LD	Right Angle	4530-0007-03
1377G12	LD	Right Angle	4530-0007-04
1377G14	LD	Right Angle	4530-0007-05
1377G15	LD	Right Angle	4530-0007-06
1377G16	LD	Right Angle	4530-0007-07
1377G17	LD	Right Angle	4530-0007-08
1377G18	LD	Right Angle	4530-0007-09
1317G1	HD	Right Angle	4530-0007-10
1317G2	HD	Right Angle	4530-0007-11
1317G11	HD	Right Angle	4530-0007-12
1317G14	HD	Right Angle	4530-0007-13
1317G15	HD	Right Angle	4530-0007-14
1317G16	HD	Right Angle	4530-0007-15
1317G17	HD	Right Angle	4530-0007-16
1317G18	HD	Right Angle	4530-0007-17

Order Codes 25 Amp Straight PCB Contacts: (Suit Housings 1327xx * on previous page)

Straight Contacts:



Type:	C mm	E mm	F mm
1377G3	54.9	56.4	1.65
1377G4	43.2	44.7	1.65
1377G13	28.2	29.7	1.65
1317G3	54.9	56.4	1.85
1317G4	43.2	44.7	1.85
1317G13	28.2	29.7	1.85

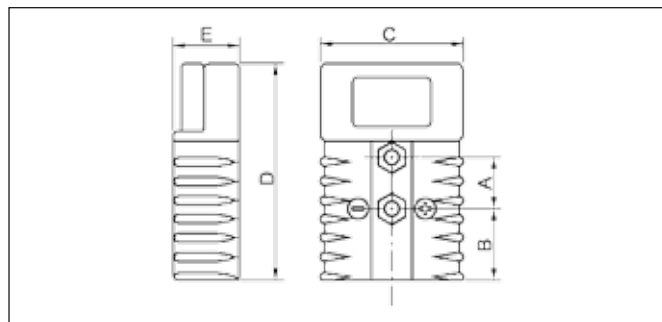
25 Amp Straight Pins:			
1377G3	LD	Straight	4530-0007-18
1377G4	LD	Straight	4530-0007-19
1377G13	LD	Straight	4530-0007-20
1317G3	HD	Straight	4530-0007-21
1317G4	HD	Straight	4530-0007-22
1317G13	HD	Straight	4530-0007-23

High Power 45 Amp PCB Contacts on Request

FLAT PIN CONNECTORS - SB® Connector Family

TECHNICAL SPECIFICATIONS

Housing:	Polycarbonate
Contacts:	Copper
Contact Plating:	Silver
Spring:	Stainless Steel
Flammability Rating:	UL94 V-0
Operating Temperature Range:	-20°C to 105°C
Insulation Withstanding Test:	2200 VDC
Vibration Resistance:	Excellent
Mating Cycles:	10.000 (For disconnect use only)



Model:	A	B	C	D	E
SB50	19	6,5	35,1	48	15,9
SB120	19	8,5	44,5	63,5	20,6
SB175	28,5	11	53,1	79,5	25,4
SB350	28,5	35	69,8	108	33,3

Features:

- Recognized by Underwriters Laboratories
- Listed by Canadian Standard Association
- Can be delivered kitted Housings + Contacts
- Auxiliary Contacts on request (SBX®)
- Optional Air supply to Battery during Charging

Market Areas:

- UPS Systems
- Telecom
- Forklift Trucks
- Wheelchairs
- Battery Chargers
- Power Electronics and Much More.

Order Codes:

MODEL:	SB50
Current:	50 Amp
Wire Size:	AWG 6 AWG 10/12

No:	Colour:	Part No:
992	Grey	4530-0110-01
992G1	Red	4530-0110-02
992G2	Black	4530-0110-03
992G4	Blue	4530-0110-04
992G5	Yellow	4530-0110-05
992G6	Green	4530-0110-06
992G7	Orange	4530-0110-07

50 Amp Contacts:	AWG:	
Individual - LD	6	4530-0004-01
Individual - LD	10/12	4530-0004-02
Individual - HD	6	4530-0004-03
Individual - HD	8	4530-0004-04
Individual - HD	10	4530-0004-05
Individual - HD	10/12	4530-0004-05
REEL, Silver - LD	6/8	4530-1000-04
REEL, Silver - LD	10/12	4530-1000-05
REEL, Tin - LD	6/8	4530-1000-06
REEL, Tin - LD	10/12	4530-1000-07
REEL, Silver - HD	6/8	4530-2000-04
REEL, Silver - HD	10/12	4530-2000-05
REEL, Tin - HD	6/8	4530-2000-06
REEL, Tin - HD	10/12	4530-2000-07
Set of 2pcs 4530-0004-02	6	4560-0004-03
Set of 2pcs 4530-0004-04	10/12	4560-0004-06
Bus Bar Contact	-	4530-0050-01

MODEL:	SB120
Current:	120 Amp
Wire Size:	AWG 2, AWG 4, AWG 6

No:	Colour:	Part No:
6810G1	Grey	4530-0111-01
6810G2	Blue	4530-0111-02
6810G3	Red	4530-0111-03

120 Amp Contacts:	AWG:	
Set of 2pcs	2	4560-0020-01
Set of 2pcs	4	4560-0020-02
Set of 2pcs	6	4560-0020-03
Bus Bar Contact	-	4530-0050-03

FLAT PIN CONNECTORS - SB® Connector Family

Order Codes:

MODEL:	SB175	
Current:	175 Amp	
Wire Size:	AWG 1, AWG 2, AWG 4 AWG 6, AWG 1/0	
No:	Colour:	Part No:
940	Grey	4530-0112-01
941	Blue	4530-0112-02
942	Orange	4530-0112-03
943	Yellow	4530-0112-04
949	Red	4530-0112-05
2-7252G11	Black*	4530-0112-06
*No Voltage Key		

175 Amp Contacts:	AWG:	
Individual	1	4530-0006-01
Individual	6	4530-0006-02
Individual	1/0	4530-0006-03
Individual	2	4530-0006-04
Individual	4	4530-0006-05
Bus Bar Contact	-	4530-0050-02
Contact Set (2pcs)	1	4560-0006-01
Contact Set (2pcs)	6	4560-0006-02
Contact Set (2pcs)	1/0	4560-0006-03
Contact Set (2pcs)	2	4560-0006-04
Contact Set (2pcs)	4	4560-0006-05

MODEL:	SB350	
Current:	350 Amp	
Wire Size:	AWG 1/0, AWG 2/0 AWG 3/0, AWG 4/0, 300mcm	
No:	Colour:	Part No:
906	Grey	4530-0113-01
912	Blue	4530-0113-02
913	Red	4530-0113-03
914	Yellow	4530-0113-04
931	Green	4530-0113-05
932	Orange	4530-0113-06

350 Amp Contacts:	AWG:	
Contact Set (2pcs)	1/0	4560-0021-01
Contact Set (2pcs)	2/0	4560-0021-02
Contact Set (2pcs)	3/0	4560-0021-03
Contact Set (2pcs)	4/0	4560-0021-04
Contact Set (2pcs)	300mcm	4560-0021-05
Bus Bar Contact	-	4530-0050-04

Available on Request:

EBC (DIN) Connector Series:



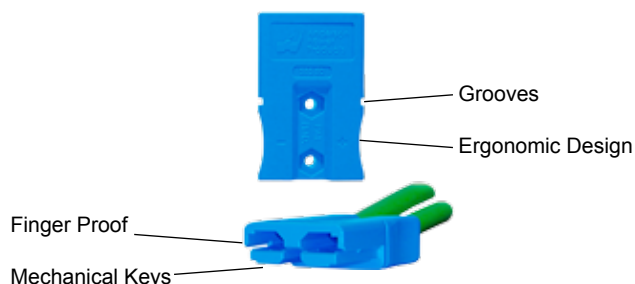
Euro Battery Connectors

FEATURES:

- Streamlined design
- 3 hexagonal voltage coding pins for wet, dry/gel and air supply
- 2 main contacts, 4 auxiliary contacts, voltage key and air supply

SBS® Connector:

Available in 50Amp & 75Amp



SPEC Pak™ Series:



IP68 Class

Housings Suitable for:

- 1327 - Series
- 1327FP - Series
- 1827 - Series
- 4327 - Series

Anderson Power Products® (APP®) is an industry leader in the design and manufacture of high power interconnects and accessories. Founded in 1877, APP® manufactured products to support the Mining and Railway Industries.

Today, as a result of innovative design and development, APP® has evolved into a valued supplier for a wide variety of markets including Back-up Power, Telecom/Datacom, and the Material Handling Industries.

Anderson Power Products, APP, Powerpole, SB, SBX are registered trademarks of Anderson Power Products.

MICRO & NANO CONNECTOR SERIES

Bi-Lobe® Connectors

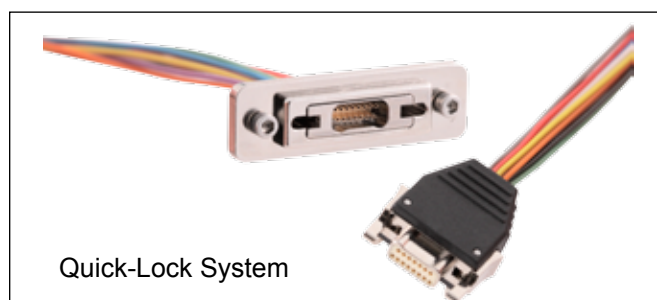
Features:

- Dual Row Metal Shell Nano Offset Connectors
- Sizes: 9-15-21-25-31-37-51-65 pins at 0,635 mm Pitch
- Mating Pin and Sockets available
- All sizes with 18 inch [45,7cm] pre-wired leads
- Colour Coded as per IAW MIL-STD-681, System 1, using ten solid repeating colours
- All sizes Horizontal Surface Mount
- All sizes Flex-Circuit Mount
- All sizes Vertical Surface Mount
- All sizes Straight Thru-Hole Mount
- All sizes Panel Mount Versions (Female Only)
- Shells are factory installed



Nano Panel Mount Connectors

Pass tests in MIL-DTL-83513 & MIL-DTL-32139. Mates with Standard MIL-32139 wired plugs. Space required = 1/4 of standard Micro-D's. Locks with Jackscrews to mate. Military Rugged reliability while reducing size, weight and Board Space in a portable and Miniturized Circuitry.



Tested to and Passed the Following Performance Specifications of MIL-DTL-32139

Dielectric Withstanding Voltage:	250 VAC initial, 100 VAC after Humidity
Insulation Resistance:	5000 Meg ohms min @ 100 VDC
Temperature Cycling:	-55°C to +125°C, 5 cycles
Humidity (Mated):	Per EIA-364, procedure 31-B, except omit steps 7A & 7B
Vibration:	20 g's - no discontinuity greater than 10 nanoseconds*
Mechanical Shock:	100 g's - no discontinuity greater than 10 nanoseconds*
Durability:	200 cycles
Contact Resistance after Durability:	65 mv max @ 2.5 amps
Mating/Unmating after Durability:	Forces not exceed 7 oz/contact
Salt Spray:	Per EIA-364, procedure 26-B
Low Level Contact Resistance after Salt Spray:	Max resistance 28 milliohms
Contact Resistance after Salt Spray:	70 mv max @ 1 amps
Mating/Unmating force after Salt Spray:	Forces not to exceed 7 oz/contact
Contact Retention after Salt Spray:	Minimum of 2 lbs contact retention
Thermal Vacuum Outgassing:	NASA SP-R-0022**
Solder Heat & Contact Retention:	360°C for 10 sec. & contacts must withstand 5 lbs retention force
Solder ability:	Per EIA-364, procedure 56

* Tested and passed while monitoring for open circuits greater than 100 nanoseconds.

** NASA requirement

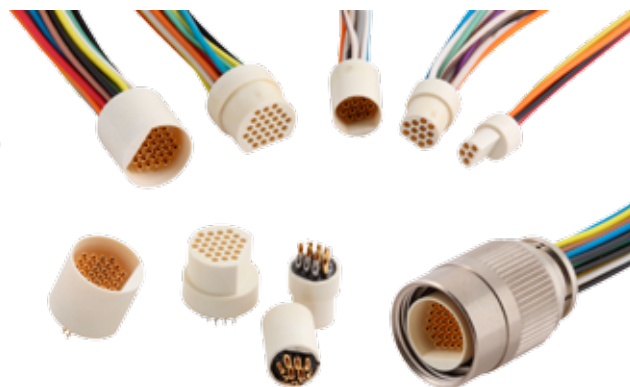
Requiriements in BLUE COLOUR exceed the MIL-DTL-32139 requirements

MICRO & NANO CONNECTOR SERIES

Circular Plastic and Metal Shell Connectors

Specification:

Insulator:	Thermoplastic Polyester per MIL-M-24519, Type GLCP-30F, Natural
Contact Material:	Pins - BerylliumCopper per ASTM B194, Alloy C17200 Socket - Copper Alloy per MIL-DTL-13513
Contact Finish:	Gold plate per ASTM B488, Type II (Hard Gold), Code C, Class 1.27 (.000050)
Terminal Finish:	Pin - Hard gold plate per MIL-G-45204 Socket - Hard gold plate per ASTM B488
Wire - Standard:	26 AWG, 7 Strand, Type E per NEMA HP3
Shells:	Brass per MIL-DTL-83513
Shell Finish:	Electroless Nickel per AMS-C-26074



Features:

- Micro & Nano Offset Circular Connectors
- Sizes: 2 up to 27
- Standard Sizes are 5-12-27 pin
- All sizes with 18 inch [45,7cm] pre-wired leads
- Wiring is Colour Coded as per IAW MIL-STD-681, System 1, using ten solid repeating colours
- Sizes 5 & 12 also in Soldercup style

Tested to and Passed the Following Performance Specifications of MIL-DTL-83513

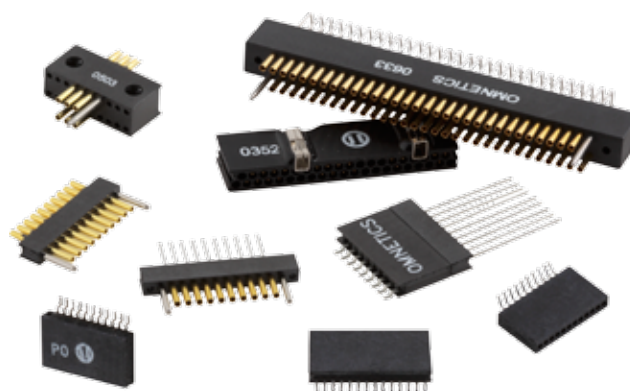
Current Rating:	3 Amp max
Dielectric Withstanding Voltage:	600 VAC RMS
Insulation Resistance:	5000 Mohms min @ 500 VDC
Contact Resistance:	26 mOhms (65 mV) max @ 2.5 Amp
Mating/Unmating Force:	Forces not exceed 6 oz/contact
Temperature Cycling:	-55°C to +125°C, 5 cycles
Humidity (Mated):	IAW MIL-STD-1344, Method 1002.2, Type II, Omit Steps 7A & 7B
Vibration:	IAW-MIL-STD-1344, Method 205.1, Test Condition IV, 20 g's
Mechanical Shock:	IAW-MIL-STD-1344, Method 2004.1, Test Condition E, 50 g's
Durability:	500 cycles
Contact Resistance after Durability:	26 mOhms (65 mV) max @ 2.5 amp
Mating/Unmating after Durability:	Forces not to exceed 6 oz/contact
Salt Spray:	48 hrs IAW-MIL-STD-1344, Method 1001.1, Test Condition B
Contact Resistance after Salt Spray:	28 mOhms (70 mV) max @ 2.5 amp
Mating/Unmating force after Salt Spray:	Forces not to exceed 6 oz/contact
Contact Retention after Salt Spray:	Minimum of 2 lbs contact retention
Thermal Vacuum Outgassing:	NASA SP-R-0022
Solder Heat & Contact Retention:	360°C for 10 sec.
Solder ability:	MIL-STD-202, Method 208

MICRO & NANO CONNECTOR SERIES

Strip Connectors - Single or Dual Row

Specification:

Insulator:	Polyphenylene Sulfide per MIL-M-24519, Type GST 40F, Black
Contact Material:	Pins - Beryllium Copper per ASTM B194, Alloy C17200 Socket - Copper Alloy per MIL-DTL-13513
Contact Finish:	Gold plate per ASTM B488, Type II (Hard Gold), Code C, Class 1.27 (.000050)
Terminal Finish:	Hard gold plate per ASTM B488
Latch:	Beryllium Copper per ASTM B488
Latch Finish:	Electroless Nickel per AMS-C-26074
Guide Post:	Brass per ASTM B16, Alloy C36000
Guide Post Finish:	Electroless Nickel per AMS-C-26074
Guide Post (DRS ONLY):	303 Stainless Steel per ASTM A582
Wire - Standard:	26 AWG, 7 Strand, Type E per NEMA HP3
Jack Post & Screw Receptacle (DRP & DRS):	303 Stainless Steel per ASTM A582 Passivate per QQ-P35



Features:

- Micro & Nano Offset Strip-Connectors
- Single & Double Row
- Sizes: 2 up to 60
- Standard Sizes are 2-4-6 pin (COTS)
- All sizes with 18 inch [45,7cm] pre-wired leads
- Wiring is Colour Coded as per IAW MIL-STD-681, System 1, using ten solid repeating colours
- Latch is factory installed

Tested to and Passed the Following Performance Specifications of MIL-DTL-83513

Current Rating:	3 Amp max
Dielectric Withstanding Voltage:	600 VAC RMS
Insulation Resistance:	5000 Mohms min @ 500 VDC
Contact Resistance:	26 mOhms (65 mV) max @ 2.5 Amp
Mating/Unmating Force:	Forces not exceed 6 oz/contact
Temperature Cycling:	-55°C to +125°C, 5 cycles
Humidity (Mated):	IAW MIL-STD-1344, Method 1002.2, Type II, Omit Steps 7A & 7B
Vibration:	IAW-MIL-STD-1344, Method 205.1, Test Condition IV, 20 g's
Mechanical Shock:	IAW-MIL-STD-1344, Method 2004.1, Test Condition E, 50 g's
Durability:	500 cycles
Contact Resistance after Durability:	26 mOhms (65 mV) max @ 2.5 amp
Mating/Unmating after Durability:	Forces not to exceed 6 oz/contact
Salt Spray:	48 hrs IAW-MIL-STD-1344, Method 1001.1, Test Condition B
Contact Resistance after Salt Spray:	28 mOhms (70 mV) max @ 2.5 amp
Mating/Unmating force after Salt Spray:	Forces not to exceed 6 oz/contact
Contact Retention after Salt Spray:	Minimum of 2 lbs contact retention
Thermal Vacuum Outgassing:	NASA SP-R-0022
Solder Heat & Contact Retention:	360°C for 10 sec.
Solder ability:	MIL-STD-202, Method 208

MICRO & NANO CONNECTOR SERIES

Omnetics Flex-Pin Technology

Omnetics Flex-Pin:

Designed and manufactured for Military, Space and medical applications. The cantilever spring uses a two leaf design, with one end fixed to while one is floating. The length and cross-section area is larger than most other designs available on the market - thus to ensure higher mate-demate life and to sustain a more constant insertion and withdrawal force.

The two sizes (Micro and Nano) are designed to mate to Industry Standard.

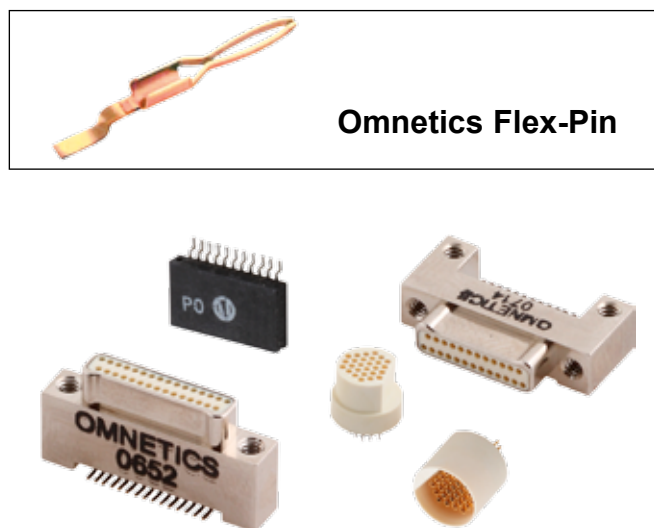
Both sizes are tested according to **MIL-DTL-83513** shock and vibration test.

Material Selection:

BeCu pins are of ASTM B194 material and alloy 17200 with a min. tensile strength at 120,000 ksi.

Pins are Ni/Au plated per ASTM B488, Type 3.

Sockets are Cu alloy, Ni/Au plated.



Materials Outgassing Data

Being dedicated to the design and manufacture of quality micro-miniature and nano-miniature connectors, Omnetics Connector Corp. has chosen the highest quality materials; not only for their excellent electrical characteristics, but also for their low outgassing properties.

Listed below are outgassing values of our standard materials:

	Material:	%TML:	%CVCM:	%WVR:	Page*:
Epoxy	Hysol EE 4215/HD 3561	0,90	0,01	0,26	264
	Emerson & Cummings Stycast 2651 / Cat. 11	0,63	0,01	0,22	369
	Frey Engineering CF-3003-80 A/B	0,24	0,02	0,08	website under adhesives**
Ink	Shipley Ronal Ronascreen 752W A/B	0,78	0,02	0,55	347
Body	Vectra A130	0,03	0	0,01	386
	Fortron PPS 1140L4	0,05	0	0,01	284

* Outgassing data from NASA Reference Publication 1124, Rev. 4

** Website: <http://epims.gsfc.nasa.gov/og/>

High Temperature Material Specifications

Material:	Application:	MIL-Spec. or Standard:	Temperature Rating:
Polyphynylene Sulfide Fotron 1140L4 (PPS)	Insulators	MIL-M24519 Type GST-40F ASTM D684, 264psi	265°C
Liquid Crystal Polymer Vectra A130 (LCP)	Insulators	MIL-M-24519 Type GST-40F ASTM D684, 264psi	230°C
BeCu w/Gold Plating	Pins	ASTM B488, Type 3, Code C, Class 1.25	260°C
Cu Alloy w/Gold Plating	Sockets	ASTM B488, Type 3, Code C, Class 1.25	260°C
BeCu w/Electroless Nickel	Micro Latches	AMS-26074	260°C
Cu Alloy w/Electroless Nickel	Guide Pins	AMS-26074	200°C
PTFE Teflon Insulation	Lead Wire	MIL-W-16878/4 & 6 + MIL-W-22759/11	200°C
Frey Engineering 3003*	Epoxy	MIL-I-16923	200°C

* By request

The D-sub EBOSA™

Adds state of the art optical expanded beam performance to the yet versatile D-Sub connector family. EBOSA™ suit any common connector housing according to DIN 41612 or DIN 41652.

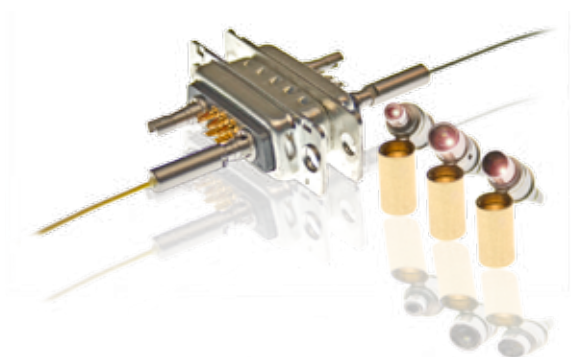
Features:

- Withstand extreme environmental conditions
- Superior optical performance
- Requires no maintenance
- Utilises the cost effective D-Sub design
- Interchangeable with electrical inserts
- Rear release/rear removable with any standard extraction tool
- Use of LC standard connector makes it easy to field install and field terminate
- RoHS compliant
- Reduced sensitivity to:
 - Dust
 - Vibrations
 - Temperature changes
- Small size
- DIN 41612 & DIN 41652 compatible



Applications:

- Daisy-chaining of tactical fiber cables
- HD live broadcasting equipment
- Military tactical communications systems
- Mining control and communication systems
- Petrochemical plant installations
- Seismic exploration systems
- Measurement equipment
- Backplane connection
- Board to board connection
- Free air communication



Main markets:

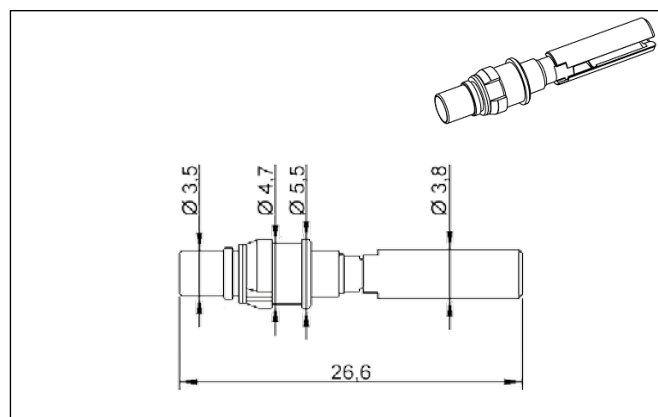
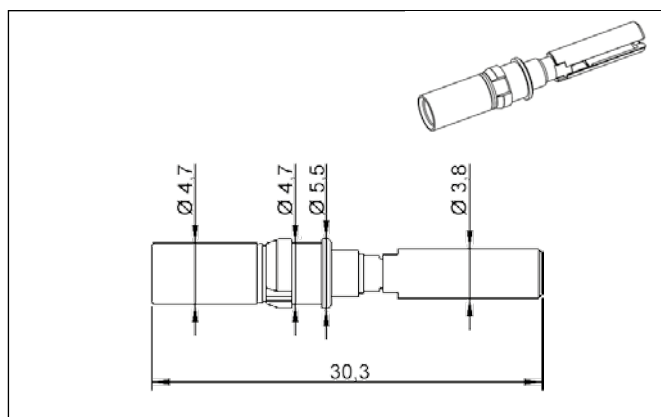
- Aviation
- Marine
- Chemical/petrochemical processing
- Medical devices
- Food processing
- Automotive
- Heavy industrial equipment
- Measurement equipment
- Broadcasting
- Military

Specification:

Test	SM (Single Mode)	MM (Multi Mode)
Insertion Loss*	Typical 0.8 dB Max 1.5 dB	Typical 0.4 dB Max 1.0 dB
Temperature (storage)	-55 to +85°C	-55 to +85°C
Temperature (operation)	-40 to +85°C	-40 to +85°C
Size of assembled D-sub EBOSA™	Diameter: 5mm Length: 26mm	Diameter: 5mm Length: 26mm

***Against reference**

Insertion loss may differ depending on D-Sub brand.



Description:

- An interchangeable optical pin that fits in standard D-Sub as easy as power or coax pins.
- The interchangeable optical pin is removable with standard D-Sub removal tool.
- It connects to a patch cord with a standard low cost LC connector.
- Available in Singlemode 9/125µm and Multimode 50/125µm, 62.5/125µm versions.



Figure shows the basic function of the D-sub EBOSA™

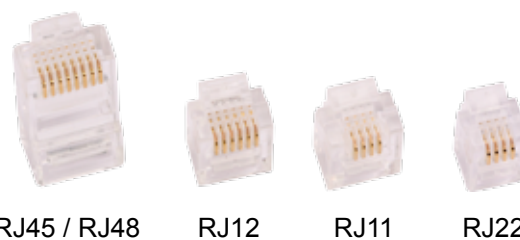
Ordering information:

Part Number:	Product Code:	Description:
4100-0001-01	GB-EB-SM1-DM1	Pin, D-Sub, DIN 41652, EBOSA™, SM, V1
4100-0001-02	GB-EB-SM1-DF1	Socket, D-Sub, DIN 41652, EBOSA™ SM V1
4100-0001-03	GB-EB-MM61-DM1	Pin, D-Sub, DIN 41652, EBOSA™ MM62,5 V1
4100-0001-04	GB-EB-MM61-DF1	Socket, D-Sub, DIN 41652, EBOSA™ MM62,5 V1
4100-0001-05	GB-EB-MM51-DM1	Pin, D-Sub, DIN 41652, EBOSA™ MM50 V1
4100-0001-06	GB-EB-MM51-DF1	Socket, D-Sub, DIN 41652, EBOSA™ MM50 V1

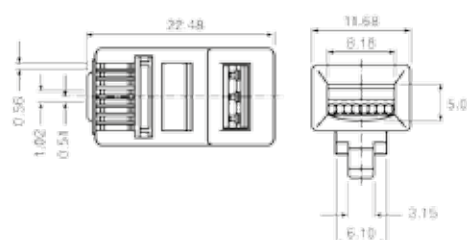
MODULAR SERIES

Features:

- UL94V-0 polycarbonate body
- True knife blade, insulating piercing contacts
- Compatible with standard crimping tools
- Compatible with all FCC specifications
- Flat cable Plug available on request
- 50μ" gold plated contacts as standard.
Other platings on request. (6, 15 & 30μ")

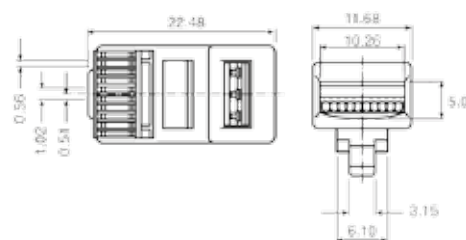


**Eight Conductor / Eight Position Cable Plug
RJ45**



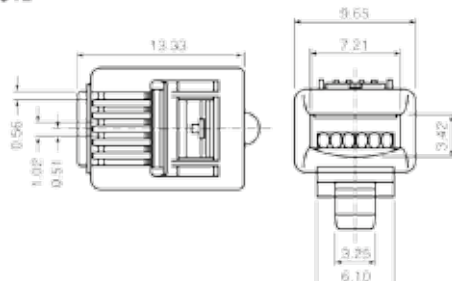
Dimensions in mm

**Ten Conductor / Ten Position Plug
RJ48**



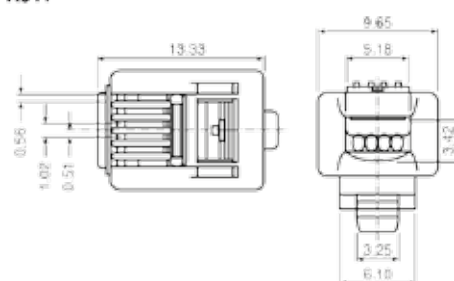
Dimensions in mm

**Six Conductor / Six Position Line Cord Plug
RJ12**



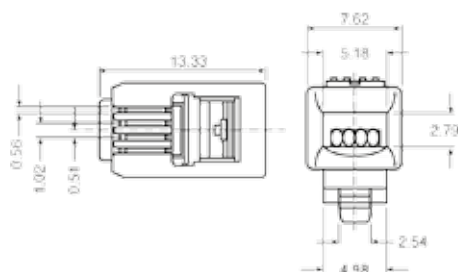
Dimensions in mm

**Four Conductor / Six Position Line Cord Plug
RJ11**



Dimensions in mm

**Four Conductor / Four Position Handset Cord Plug
RJ22**



Dimensions in mm

Ordering information:

Size:	P/N - BULK:	Product Code:
8P8C	6510-0104-01	RJ45-8P8CR
4P4C	6510-0104-02	RJ22-4P4CR
6P4C	6510-0104-03	RJ11-6P4CR
6P6C	6510-0104-04	RJ12-6P6CR
10P10C	6510-0104-05	RJ48-10P10CR

RJ45SRB - Series



Features:

- Standard version OD up to 6.0 mm
- Small version OD up to 4.3 mm
- Available in 11 standard colours
- Custom colours available upon request.

Ordering information:

Standard 6.0 mm

Colour:	P/N - BULK:	Product Code:
Light Grey	6510-0100-01	RJ45SRB-LG
Dark Grey	6510-0100-02	RJ45SRB-DG
Blue	6510-0100-03	RJ45SRB-B
Yellow	6510-0100-04	RJ45SRB-Y
Green	6510-0100-05	RJ45SRB-G
Black	6510-0100-06	RJ45SRB-BK
Purple	6510-0100-07	RJ45SRB-P
White	6510-0100-08	RJ45SRB-W
Orange	6510-0100-09	RJ45SRB-O
Red	6510-0100-10	RJ45SRB-R
Pink	6510-0100-11	RJ45SRB-PK

For Small version, 4.3 mm: 6510-0101-xx / RJ45SRB-SM-xx

RJ45SRB - Translucent Series



Features:

- Standard version OD up to 6.0 mm
- Available in 6 standard colours
- Custom colours available upon request.

Ordering information:

Standard 6.0 mm

Colour:	P/N - BULK:	Product Code:
Blue	6510-0100-21	RJ45SRB-TRANS-B
Yellow	6510-0100-22	RJ45SRB-TRANS-Y
Green	6510-0100-23	RJ45SRB-TRANS-G
Purple	6510-0100-24	RJ45SRB-TRANS-P
Orange	6510-0100-25	RJ45SRB-TRANS-O
Red	6510-0100-26	RJ45SRB-TRANS-R

RJ45SRB - Retrofit Series



Features:

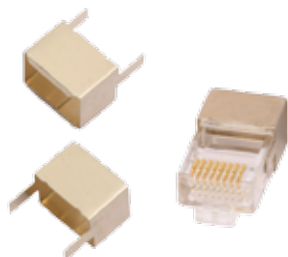
- Retrofit style for provision of strain relief / Colour Coding after Cable Assembly has been made. (On Site Coding)

Ordering information:

Colour:	P/N - BULK:	Product Code:
Light Grey	6510-0102-01	RJ45SRB-RET-LG
Dark Grey	6510-0102-02	RJ45SRB-RET-DG
Blue	6510-0102-03	RJ45SRB-RET-B
Yellow	6510-0102-04	RJ45SRB-RET-Y
Green	6510-0102-05	RJ45SRB-RET-G
Black	6510-0102-06	RJ45SRB-RET-BK
Purple	6510-0102-07	RJ45SRB-RET-P
White	6510-0102-08	RJ45SRB-RET-W
Orange	6510-0102-09	RJ45SRB-RET-O
Red	6510-0102-10	RJ45SRB-RET-R

MODULAR SERIES

RJ45-SC - Shielding Can



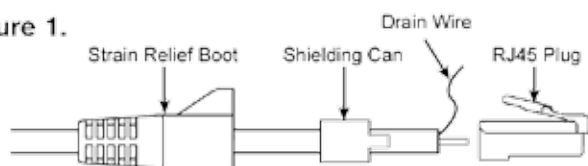
Ordering information:

Type:	P/N - BULK:	Product Code:
RJ45-SC	6510-0103-01	RJ45SC-GS

Features:

- Shielding Can for easy conversion from UTP to FTP
- Recommended for use with MHRJ45-8P8CR and any of the RJ45-SRB boots

Figure 1.



Prepare cable as you would for UTP assemblies. Place the boot onto the cable, followed by the metal can, as shown above.

Figure 2.



Terminate the RJ45 plug prior to fitting the shielding can. Bend the drain wire across the top of the RJ45 body as shown, trim if necessary.

RJ45-SRI - Series

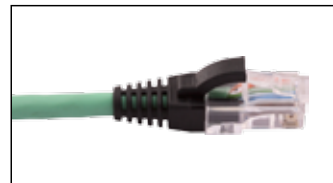


Ordering information:

Colour:	P/N - BULK:	Product Code:
Light Grey	6510-0109-01	RJ45SRI-LG
Dark Grey	6510-0109-02	RJ45SRI-DG
Blue	6510-0109-03	RJ45SRI-B
Yellow	6510-0109-04	RJ45SRI-Y
Green	6510-0109-05	RJ45SRI-G
Black	6510-0109-06	RJ45SRI-BK
Red	6510-0109-10	RJ45SRI-R

Features:

- Standard version OD up to 6.0 mm
- Insert locks into place after crimp
- Available in 7 standard colours
- Custom colours available upon request
- Recommended for use with RJ45-8P8CR plug



RJJ - Modular Jacks



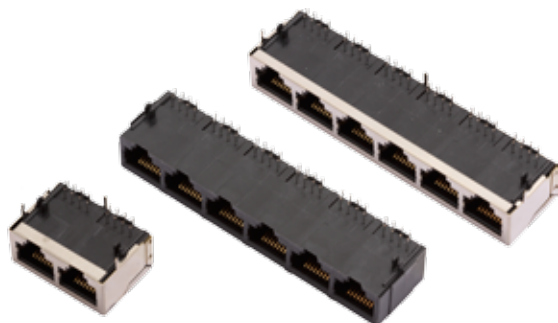
Features:

- Available in Shielded or Unshielded
- Available in 4, 6 and 8 pos
- Compatible with Industry standard PCB layouts

Ordering information:

Type:	P/N - BULK:	Product Code:
6P6C-RA-Shielded	2101-0100-02	RJJ-66NF-RA-S
8P8C-RA-Shielded	2101-0100-03	RJJ-88NF-RA-S
4P4C-RA-Unshielded	2101-0100-11	RJJ-44NF-RA
6P6C-RA-Unshielded	2101-0100-12	RJJ-66NF-RA
8P8C-RA-Unshielded	2101-0100-13	RJJ-88NF-RA
6P4C-RA-Unshielded	2101-0100-14	RJJ-64NF-RA
6P6C-V-Shielded	2101-0110-02	RJJ-66NF-V-S
8P8C-V-Shielded	2101-0110-03	RJJ-88NF-V-S
4P4C-V-Unshielded	2101-0110-11	RJJ-44NF-V
6P6C-V-Unshielded	2101-0110-12	RJJ-66NF-V
8P8C-V-Unshielded	2101-0110-13	RJJ-88NF-V
6P4C-V-Unshielded	2101-0110-14	RJJ-64NF-V

3012 - Series



Features:

- Available in Shielded or Unshielded
- Available in 2, 4, 6 and 8 ports
- Compatible with Industry standard PCB layouts

Ordering information:

Type / Size::	P/N - BULK:	Product Code:
2port - Shielded	2101-0112-01	3012-S-02
4port - Shielded	2101-0112-02	3012-S-04
6port - Shielded	2101-0112-03	3012-S-06
8port - Shielded	2101-0112-04	3012-S-08
2port - Unshielded	2101-0112-11	3012-02
4port - Unshielded	2101-0112-12	3012-04
6port - Unshielded	2101-0112-13	3012-06
8port - Unshielded	2101-0112-14	3012-08

COUPLER



Features:

- Available in Shielded or Unshielded
- Compatible with Industry standard Panel Cut outs

Ordering information:

Type / Size::	P/N - BULK:	Product Code:
Unshielded Cat5e	2101-0115-01	3101-8821
Shielded Cat5e	2101-0115-02	3101S-8821

CAT6 Shielded and Unshielded - New Design



CAT6a Unshielded Plugs - New Design

Features/Benefits

- High production yields when building CAT6 compliant patch cords
- Integral strain-relief which is the same width as the plug housing
- Patented contact design allow both solid and stranded wires

CAT6 Unshielded Plugs

Commonly ordered parts:

Part Number	Contacts	Positions	Description
SS-39100-007	8	8	Plug, Loadbar and Strain Relief Housing (5.58mm to 5.85 mm Ø)
SS-39100-008	8	8	Plug, Loadbar and Snagless Strain Relief Housing (5.58 mm to 5.85 mm Ø)
SS-39100-011	8	8	Plug, Loadbar and Snagless Strain Relief Housing (6.10 mm to 6.35 mm Ø)



CAT6a Shielded Plugs - New Design

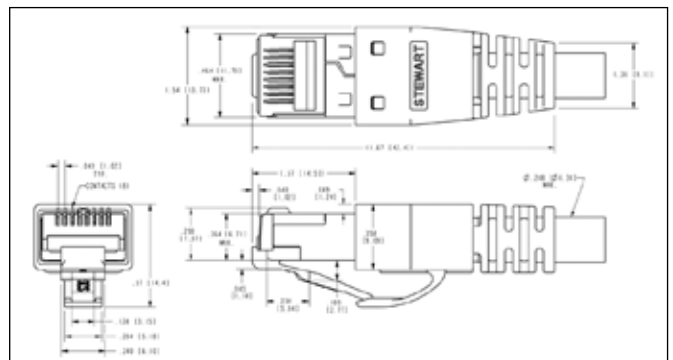
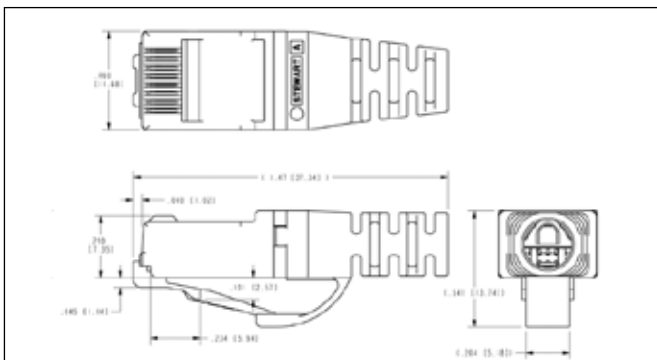
Features/Benefits

- One-step termination process. Shield and contacts are crimped in a single operation.
- 360° shield termination
- Plug can be overmoulded or assembled using available snap-on boot with an anti-sag feature
- Loadbar for ease of assembly

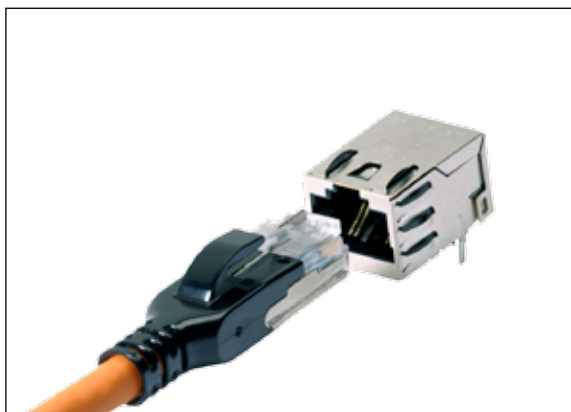
CAT6 Shielded Plugs

Commonly ordered parts:

Part Number	Contacts	Positions	Description
SS-39200-010	8	8	Plug and Loadbar (6.10mm to 6.60 mm Ø)
SS-39200-012	8	8	Plug and Loadbar (5.60 mm to 6.10 mm Ø)
SS-39200-011	8	8	Plug, Loadbar and Strain Relief Boot (5.90 mm to 6.30 mm Ø)



ARJ45™ Category 7a Connector System



ARJ45™ Category 7a Connector System

Features/Benefits

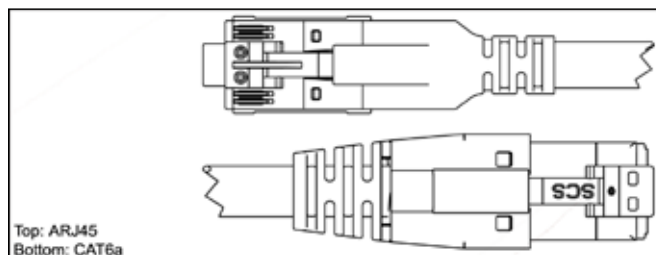
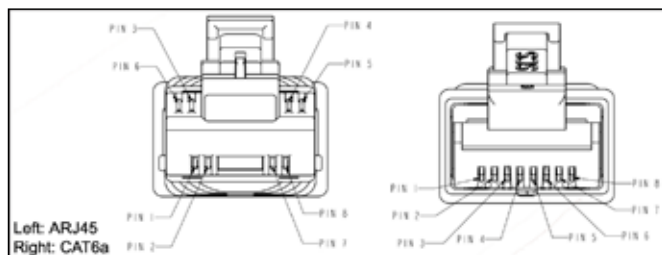
- Meets IEC 60603-7-7 standard for Category 7 performance up to 600MHz
- Meets the proposed Category 7a standard for increased frequency up to 1000MHz
- Meets the interface for Category 7a connectors as defined by IEC 60603-7-7
- Interface compatible with Nexans GG45 Category 7
- Right angle PCB jack available for Category 7a patch panel designs and high speed data transmission applications
- Uses data transmission pair isolation techniques to archive high frequency performance up to 1000MHz

Plug design includes a built-in strain relief boot as well as an anti-snap feature for plug tab protection.

UL 94-V0 plastic components

ARJ45™ Category 7a Connector System

Part Number Replace xxx with length in meters. 001, 002 etc.	Contacts	Positions	Description
CA76-xxxM0-8	8	8	CAT6 to CAT7a Patch Cord (Available in 1, 2, 3, 5, 7 and 10m)
CA77-xxxM0-8	8	8	CAT7a to CAT7a Patch Cord (Available in 1, 2, 3, 5, 7 and 10m)
SS77100-004	8	8	CAT7a ARJ45 Jack



Series 60300 - CAT6a Shielded and Unshielded Jacks



SS-60300 Series CAT6a PCB Mounted Jacks

Features/Benefits

- Easily compensated to CAT6a performance levels through an integrated flexible circuit board design
- Flexible PCB design help cancel Near End Cross Talk (NEXT) at the plug/jack interface
- 180 degree vertical mount and 90 degree right angle mount shielded and unshielded versions available
- Minimal secondary compensation required due to the jack's construction
- Selectively plated contacts with 50 micro-inches of gold
- Designed for use in 10 Gigabit Ethernet applications

Series 60300 - CAT6a Shielded and Unshielded Jacks Commonly ordered parts

Part Number	Contacts	Positions	Description
SS-60300-021	8	8	CAT6a Unshielded Right Angle Jack
SS-60300-017	8	8	CAT6a Unshielded Vertical Jack
SS-60300-002	8	8	CAT6a Shielded Right Angle Jack
SS-60300-014	8	8	CAT6a Shielded Vertical Jack

Modular Plugs



Series 30: Standard Performance Unshielded Modular Plugs

Series 36: Standard Performance Shielded Modular Plugs

Series 37: CAT5e Shielded and Unshielded Modular Plugs

Series 39: CAT6 Shielded and Unshielded Modular Plugs

All plugs with part number prefix SS-, 940- or 943- accommodate both solid and stranded conductors.

Series 30 - Standard-Performance Unshielded Plugs Commonly ordered parts:

Part Number	Contacts	Positions	Description
940-SP-3044	4	4	4x4 UTP Plug for Flat Cable
940-SP-3044R	4	4	4x4 UTP Plug for Round Cable
940-SP-3046	4	6	4x6 UTP Plug for Flat Cable
940-SP-3046R	4	6	4x6 UTP Plug for Round Cable
940-SP-3066	6	6	6x6 UTP Plug for Flat Cable
940-SP-3066R	6	6	6x6 UTP Plug for Round Cable
940-SP-3088	8	8	8x8 UTP Plug for Flat Cable
940-SP-3088R-A133	8	8	8x8 UTP Plug for Round Cable
940-SP-301010	10	10	10x10 UTP Plug for Flat Cable
940-SP-301010R	10	10	10x10 UTP Plug for Round Cable

Series 36 - Standard-Performance Shielded Plugs Commonly ordered parts:

940-SP-360606-A151	6	6	6x6 S/FTP Kit with Load Bar
940-SP-360808-A108	8	8	8x8 S/FTP Kit with Load Bar
940-SP-360808-A161	8	8	8x8 S/FTP Kit with Management Bar
940-SP-360808-031-A108	8	8	8x8 S/FTP Kit with Load Bar, AWG30
940-SP-361010-A161	10	10	10x10 S/FTP Kit with Management Bar

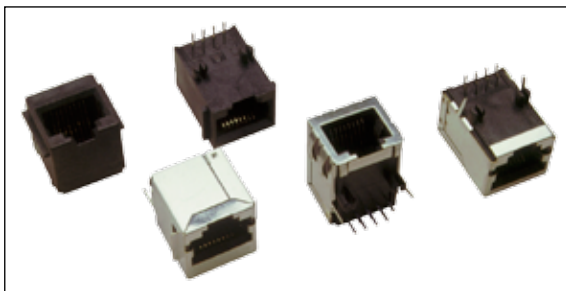
Series 37 - CAT5e Shielded and Unshielded Plugs Commonly ordered parts:

943-SP-370808M2	8	8	8x8 UTP with Management Bar
SS-37000-002	8	8	8x8 UTP Plug Unibody
SS-37000-009	8	8	8x8 UTP Plug Unibody - Oversized
943-SP-370808SM2	8	8	8x8 S/FTP Kit
943-SP-370808SM2-A217	8	8	8x8 S/FTP Kit
SS-37200-001	8	8	8x8 S/FTP Plug Unibody

Series 39 - CAT6 Shielded and Unshielded Plugs Commonly ordered parts:

SS-39100-004	8	8	8x8 UTP Plug with Management Bar
SS-39100-008	8	8	8x8 UTP Plug with Load Bar and Strain Relief Boot
SS-39200-006	8	8	8x8 S/FTP Kit with Management Bar
SS-39200-012	8	8	8x8 S/FTP Kit with Management Bar and Strain Relief Boot

Modular Jacks



- Series 64:** Standard Performance Low Profile Jacks
- Series 65:** Standard Performance Vertical Jacks
- Series 70:** Standard Performance Ultralow Profile MICROJACK
- Series 71:** High Performance Harmonica Jacks
- Series 60:** CAT6 Jacks

High temp. Versions are approved for 260°C reflow soldering.

Series 64 - Low Profile Single-Port Jacks

Commonly ordered parts:

Part Number (High Temp. Version)	Contacts	Positions	Description
SS-6444-NF (SS64400-002F)	4	4	4x4 Unshielded Right Angle Jack
SS-6446-NF (SS64600-004F)	4	6	4x6 Unshielded Right Angle Jack
SS-6466-NF-A431 (SS64600-020F)	6	6	6x6 Unshielded Right Angle Jack
SS-6488-NF-A431 (SS64800-012F)	8	8	8x8 Unshielded Right Angle Jack
SS-641010-NF-A431 (SS64100-026F)	10	10	10x10 Unshielded Right Angle Jack
SS-6466S-A-PG1 (SS64600-025F)	6	6	6x6 Shielded Right Angle Jack
SS-6488S-A-NF (SS64800-031F)	8	8	8x8 Shielded Right Angle Jack
SS-641010S-A-NF (SS64100-042F)	10	10	10x10 Shielded Right Angle Jack

Series 65 - Vertical Single-Port Jacks

Commonly ordered parts:

SS-6544-NF (SS65400-003F)	4	4	4x4 Unshielded Vertical Jack
SS-6546-NF (SS65600-002F)	4	6	4x6 Unshielded Vertical Jack
SS-6566-NF (SS65600-007F)	6	6	6x6 Unshielded Vertical Jack
SS-650810-A-NF (SS65100-009F)	8	10	8x10 Unshielded Vertical Jack
SS-651010-A-NF (SS65100-031F)	10	10	10x10 Unshielded Vertical Jack
SS-650810S-A-NF (SS65100-024F)	8	10	8x10 Shielded Vertical Jack
SS-651010S-A-NF (SS65100-038F)	10	10	10x10 Shielded Vertical Jack

Series 70 - MICROJACK®

Commonly ordered parts:

SS-700810S-A-PG4-BA-50 (SS70100-015F)	8	10	8x10 Shielded Right Angle Microjack
SS701010S-A-PG4-1-BA (SS70100-023F)	10	10	10x10 Shielded Right Angle Microjack

Series 71 - High-Performanced Harmonica Jacks

Commonly ordered parts:

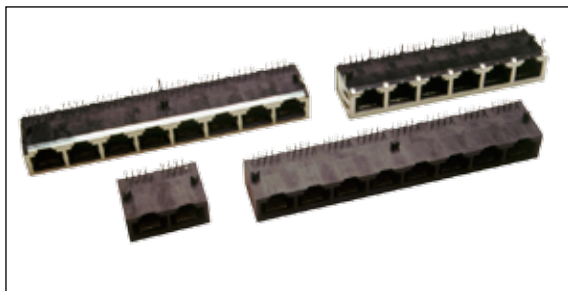
SS-7188S-A-NF (SS71800-007F)	8	8	1 Port Shielded Harmonica Jack
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Series 60 - CAT6 Jacks

Commonly ordered parts:

SS-60000-010	8	8	CAT6 Unshielded Right Angle Jack
SS-60000-014	8	8	CAT6 Unshielded 47.5° Angle Jack
SS-60000-007	8	8	CAT6 Unshielded Vertical Jack
SS-60000-009	8	8	CAT6 Shielded Right Angle Jack
SS-60000-011	8	8	CAT6 Shielded 47.5° Angle Jack
SS-60000-008	8	8	CAT6 Shielded Vertical Jack

Modular Jacks



- Series 66:** Standard Performance Harmonica Jacks
- Series 71:** High Performance Harmonica Jacks
- Series 73:** Standard Performance Two-Row StackJacks
- Series 73100:** High Performance Two-Row StackJacks
- Series 73500:** High Performance Compressor Jacks

High temp. Versions are approved for 260°C reflow soldering.

Series 66 - Harmonica Jacks

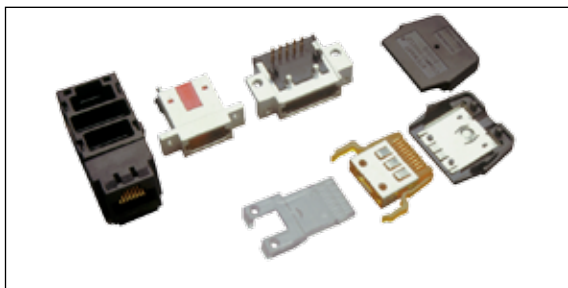
Commonly ordered parts:

Part Number (High Temp. Version)	Contacts	Positions	Description
SS-668804-NF (SS66800-017F)	8	8	4 Port Unshielded Harmonica Jack
SS-668808-NF (SS66800-036F)	8	8	8 Port Unshielded Harmonica Jack
SS-668802S-A-NF (SS66800-010F)	8	8	2 Port Shielded Harmonica Jack
SS-668804S-A-NF (SS66800-022F)	8	8	4 Port Shielded Harmonica Jack
SS-668806S-A-NF (SS66800-032F)	8	8	6 Port Shielded Harmonica Jack
SS-668808S-A-NF (SS66800-038F)	8	8	8 Port Shielded Harmonica Jack

Series 71 - High-Performance Harmonica Jacks

Commonly ordered parts:

SS-7188S-A-NF (SS71800-007F)	8	8	1 Port Shielded Harmonica Jack
SS-718802S-A-PG4-AC (SS71800-035F)	8	8	2 Port Shielded Harmonica Jack
SS-718804S-A-NF (SS71800-038F)	8	8	4 Port Shielded Harmonica Jack
SS-718808S-A-PG4-AC (SS71800-055F)	8	8	8 Port Shielded Harmonica Jack



- Series 80:** Standard Performance Cable-Ready Jacks
- Series 82:** High Performance Cable-Ready Jacks
- Voice Series:** Economy Cable-Ready Jacks
- Series 31 & 32:** Compu-Shield Plugs
- Series 61 & 62:** Compu-Shield Jacks

Voice-Series Cable-Ready Jacks

Commonly ordered parts:

Part Number	Contacts	Positions	Description
VS-JC88S-W24-C	8	8	8x8 CAT5 Shielded Cable-Ready Jack AWG24
VS-JC88S-W26-C	8	8	8x8 CAT5 Shielded Cable-Ready Jack AWG26
VS-JC88S-W30E-C	8	8	8x8 CAT5 Shielded Cable-Ready Jack AWG30

Series 31 Compu-Shield Plugs

Commonly ordered parts:

SS-310606-5	6	6	6x6 Compu-Shield Plug
SS-310808-5	8	8	8x8 Compu-Shield Plug
SS-311010-26	10	10	10x10 Compu-Shield Plug

MagJack®



Port Configurations:	Single Port
	Harmonica Type Multiport 2, 4, 5, 6 or 8 Ports
	Stacked 2xN Type Multiport 2x1, 2x2, 2x3, 2x4, 2x6 or 2x8 Ports
	Combo Type MagJack with 1 or 2 USB-A Connectors MagJack with 1 USB-B Connector
Performance:	10/100Base-TX Ethernet
	10/100/1000Base-TX Ethernet
	10 Gigabit Ethernet (10GBase-T)

Gigabit Single Port MagJacks Commonly ordered parts:

Part Number	Contacts	Positions	Description
0826-1X1T-23-F	8	8	10/100/1000Base-TX, Y/GO LEDs, Tab Up, Right Angle MagJack
L826-1X1T-23-F	8	8	10/100/1000Base-TX, Y/GO LEDs, Tab Up, Low Profile, Right Angle MagJack
SI-60008-F	8	8	10/100/1000Base-TX, No LEDs, Tab Down, Right Angle MagJack
SI-61001-F	8	8	10/100/1000Base-TX, G/Y LEDs, Tab Down, Right Angle MagJack

Gigabit Multi Port and Combo MagJacks Commonly ordered parts:

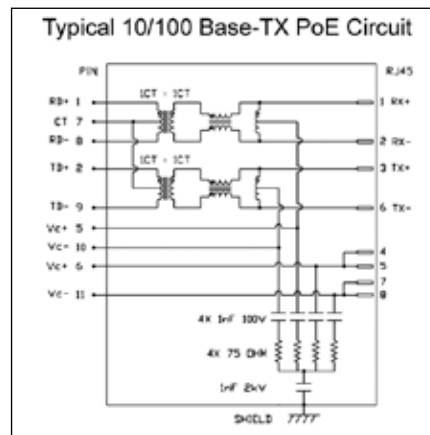
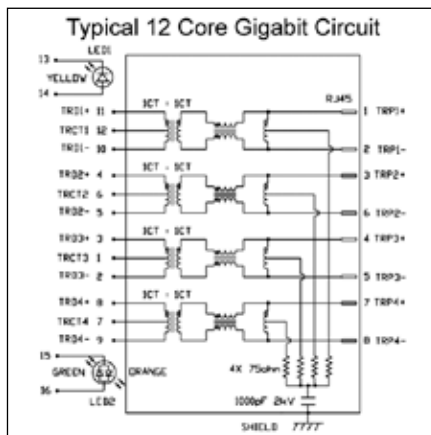
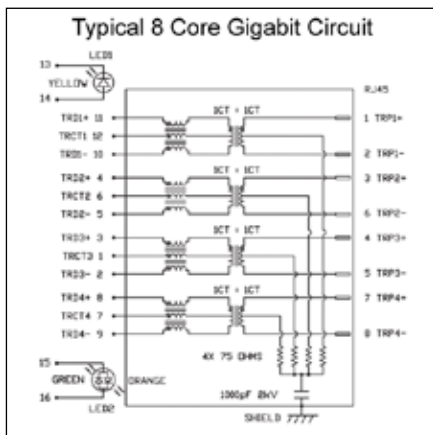
0826-1X2T-23-F	8	8	10/100/1000Base-TX, Y/GO LEDs, Tab Up, 2 Port Harmonica MagJack
L826-1X4T-43-F	8	8	10/100/1000Base-TX, Y/GO LEDs, Tab Up, Low Profile, 4 Port Harmonica MagJack
0845-2R1T-E4	8	8	10/100/1000Base-TX, G/GY LEDs, 2 Port Stacked MagJack
C893-1RX1-E3	8	8	10/100/1000Base-TX, G/GY LEDs, 2xUSB-A, Combo MagJack

10/100Base-TX Single Port MagJacks - Power Over Ethernet Commonly ordered parts:

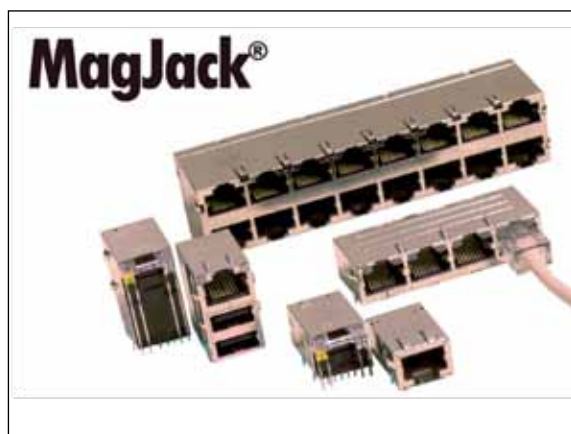
SI-52003-F	8	8	10/100Base-TX, G/G LEDs, Tab Up, PoE, Right Angle MagJack
0813-1X1T-57-F	8	8	10/100Base-TX, No LEDs, Tab Down, PoE, Right Angle MagJack

Gigabit Single Port MagJacks - Power Over Ethernet Commonly ordered parts:

0826-1X1T-80-F	8	8	10/100/1000Base-TX, Y/GO LEDs, Tab Up, PoE, Right Angle MagJack
0816-1X1T-80-F	8	8	10/100/1000Base-TX, No LEDs, Tab Up, PoE, Right Angle MagJack

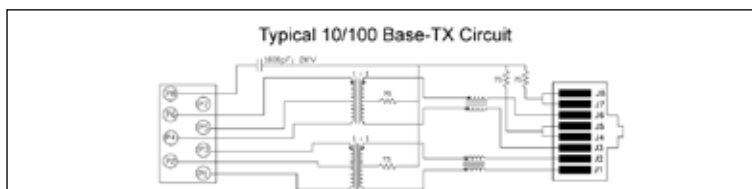


MagJack®



MagJack Features:

- Optional LEDs
- Plug tab down, Plug tab up
- Extended Temp = -40°C to +85°C
- Power over Ethernet (PoE) options
- GR1089 intra-building & ESD surge protection



10/100Base-TX Single Port MagJacks

Commonly ordered parts:

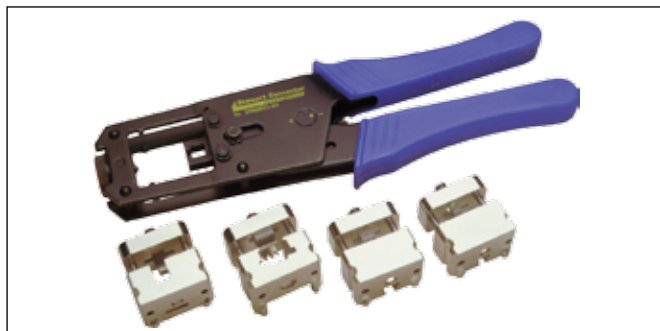
Part Number	Contacts	Positions	Description
SI-16001-F	8	8	10/100Base-TX, No LEDs, AutoMDIX, Vertical MagJack
SI-46001-F	8	8	10/100Base-TX, Y/G LEDs, AutoMDIX, Vertical MagJack
SI-50158-F	8	8	10/100Base-TX, Y/G LEDs, Tab Up, AutoMDIX, Right Angle MagJack
SI-50162-F	8	8	10/100Base-TX, G/G LEDs, Tab Up, Non-AutoMDIX, Right Angle MagJack
SI-50168-F	8	8	10/100Base-TX, No LEDs, Tab Up, Non-AutoMDIX, Right Angle MagJack
SI-50170-F	8	8	10/100Base-TX, G/G LEDs, Tab Up, AutoMDIX, Right Angle MagJack
SI-50177-F	8	8	10/100Base-TX, No LEDs, Tab Up, AutoMDIX, Right Angle MagJack
SI-60001-F	8	8	10/100Base-TX, G/G LEDs, Tab Down, AutoMDIX, Right Angle MagJack
SI-60002-F	8	8	10/100Base-TX, No LEDs, Tab Down, AutoMDIX, Right Angle MagJack
SI-60080-F	8	8	10/100Base-TX, No LEDs, Tab Down, Common Mode Choke Jack
SI-60062-F	8	8	10/100Base-TX, Y/G LEDs, Tab Down, AutoMDIX, Right Angle MagJack
SI-60118-F	8	8	10/100Base-TX, G/G LEDs, Tab Down, AutoMDIX, Ext. Temp, Right Angle MagJack
SI-60136-F	8	8	10/100Base-TX, No LEDs, Tab Down, AutoMDIX, Ext. Temp, Right Angle MagJack
08B0-1G1T-06-F	8	8	10/100Base-TX, G/G LEDs, Tab Up, AutoMDIX, Alt. Footprint, Right Angle MagJack
08B1-1X1T-06-F	8	8	10/100Base-TX, No LEDs, Tab Up, AutoMDIX, Alt. Footprint, Right Angle MagJack

10/100Base-TX Multi-Port and Combo MagJacks

Commonly ordered parts:

SI-60159-F	8	8	10/100Base-TX, G/Y LEDs, Tab Down, 2 Port Harmonica MagJack
08B0-1X4T-36-F	8	8	10/100Base-TX, Y/GO LEDs, Tab Up, Ext. Temp, 4 Port Harmonica MagJack
0845-2G1T-H5	8	8	10/100Base-TX, G/G LEDs, 2 Port Stacked MagJack
0845-2D1T-S4	8	8	10/100Base-TX, Y/G LEDs, Ext. Temp, 2 Port Stacked MagJack
08C2-1X1T-03-F	8	8	10/100Base-TX, Y/GO LEDs, 2xUSB-A, Combo MagJack
08C2-1X1T-36-F	8	8	10/100Base-TX, Y/GO LEDs, 2xUSB-A, Ext. Temp, Combo MagJack
C893-1DX1-E5	8	8	10/100Base-TX, Y/G LEDs, 2xUSB-A, Combo MagJack

Tooling



Order Code

2980011-01:	Semi-professional Handtool Frame
2980012-01:	4P Unshielded Die Set
2980013-01:	6P Unshielded Die Set
2980014-01:	MMJ Unshielded Die Set
2980015-01:	8P Unshielded Die Set
2980016-01:	10P Unshielded Die Set
2980017-01:	8P Shielded Die Set



Order Code

2980019-01:	Professional Handtool Frame
2980020-01:	8P Shielded Die Set
2980024-01:	4P Unshielded Die Set
2980025-01:	MMJ Unshielded Die Set
2980026-01:	6P Unshielded Die Set
2980036-01:	8P Unshielded Die Set
2980037-01:	10P Shielded Die Set
2980038-01:	10P Unshielded Die Set
2980039-01:	8P Cat. 5 Unshielded Die Set
2980047-01:	8P Cat. 6 Unshielded Die Set

Professional Hand Tool for use with all Professional hardened Die Sets. The Combi Die Set is specifically for shielded 8p Plugs - allowing users to crimp both the contacts and ferrule within one die set.

2980021-01:	8P Shielded Combi Die Set
2980022-01:	4.5mm Ferrule Die Set for Combi
2980023-01:	5.2mm Ferrule Die Set for Combi
2980034-01:	3.7mm Ferrule Die Set for Combi
2980035-01:	6.0mm Ferrule Die Set for Combi



Order Code

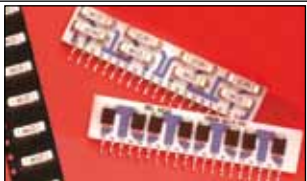
2980028-01:	Semi-professional Ferrule Hand Tool Frame
2980029-01:	3.7mm Ferrule Die Set
2980030-01:	4.5mm Ferrule Die Set
2980031-01:	5.2mm Ferrule Die Set
2980032-01:	6.0mm Ferrule Die Set



Order Code

2980070-01:	Professional Hand Tool with Die Set For use with new CAT6 shielded plugs SS-39200-012
2980075-01:	Professional Hand Tool with Die Set For use with new CAT6 shielded plugs SS-39200-010

Circuit Protection Modules:

	SMP	600V Lighting surge Withstand 3812 size SMD	UL SP CE
	SIP	Circuit Protection SIP Module	RA

IEC 250V Radial:

	MRF	Quick act, radial lead micro type	PSE S RA VDE CE SP
	MRT	Time lag, radial lead micro type	
	RST	Time lag, radial lead micro type	

IEC 5x20 mm, 250V:

	5ET	Time lag, enhanced break capacity, high surge proof cartridge type	SP MY S RA VDE CE
	5ETP	Time lag, enhanced break capacity, high surge proof axial lead type	
	5HF	Quick act, high break capacity, cartridge type	
	5HFP	Quick act, high break capacity, axial lead type	
	5HT	Time lag, high break capacity, cartridge type	
	5HTP	Time lag, high break capacity, axial lead type	
	5SF	Quick act, low break capacity, cartridge type	
	5SFP	Quick act, low break capacity, axial lead type	
	5ST	Time lag, low break capacity, cartridge type	
	5STP	Time lag, low break capacity, axial lead type	
	5VT	Time lag, low break capacity, high surge proof cartridge type	
	5VTP	Time lag, low break capacity, high surge proof axial lead type	

Fuse Clips:

	FC	Fuse Clip	
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Surface Mount:

	C1Q	Very fast acting chip, 1206 size	UL SP CE
	C1S	Slow blow Chip, 1206 size	UL CE
	C2Q	Very fast acting chip, 0603 size	UL SP CE
	SSQ	Fast acting, Square ceramic, 2410 size	
	SST	Slow blow, Square ceramic, 2410 size	
	SSTC	Field receptable 2410 siz, In clips	

UL/CSA 1/4 x 11/4:

	3AB	Very fast acting chip, 1206 size	PSE UL SP CE
	3ABP	Slow blow Chip, 1206 size	
	3AG	Very fast acting chip, 0603 size	UL SP CE
	3AP	Fast acting, Square ceramic, 2410 size	PSE UL SP CE
	3SB	Slow blow, Square ceramic, 2410 size	
	3SBP	Field receptable 2410 siz, In clips	
	GSA	Slow blow, Ceramic cartridge type	
	GSAP	Slow blow, Ceramic pigtail	

UL/CSA 125V Micro:

	MQ	Fast acting, axial lead micro type	UL SP CE
	MS	Slow blow, axial lead micro type	

UL/CSA 4,6 x 15,5 mm:

	RJS	Low cost Telecom protection series, 600V lighting Surge Withstand, radial lead	UL SP CE
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UL/CSA 5 x 15 mm (2AG):

	2JQ	Fast acting, 350V, 2AG cartridge type	PSE UL UL SP SP CE
	2JS	Slow blow, 350V, 2AG cartridge type	
	3JQ	Fast acting, 350V, 2AG cartridge type	
	3JS	Slow blow, 350V, 2AG cartridge type	
	MJS	Ligthing Surge withstand	

UL/CSA 5 x 20 mm 250V:

	5MF	Fast blow cartridge type	PSE UL SP CE
	5MFP	Fast blow, pigtail	
	5MT	Medium blow cartridge type	
	5MTP	Medium blow, pigtail	
	5TT	Slow blow, cartridge type	
	5TTP	Slow blow, pigtail	

WATER RESISTANT HOODS & CONNECTORS

Connectors moulded with Cable:



Connectors moulded with cable are available on request; from 1 meter up to 99 meters.
We can also offer customized cables for special applications, suitable for example VGA (with ferrites), Outdoor Marine or Off-shore, where the demands and specifications on cable material is very specific.

Available Sizes:

Standard: Size 9, 15, 25
High Density: Size 15, 26, 44

Other sizes on request.

Please contact us for further information

Full Metal Connectors & Housings:



Full metal Connectors & Housings for High temp and Heavy industry solutions are available in standard and in High density version on request.

Available Sizes:

Standard: Size 15
High Density: Size 26

Material: Zinc

Please contact us for further information

Waterproof CAP for Sub-D:

Waterproof CAP for Panel Mount.
Can be fitted onto Cable Housing using Joiner / adapter Plate.

Available Sizes:

Standard: 9, 15, 25
High Density: HD15, HD26, HD44



Ordering information:

Size:	Part Number:	Product Code:
9 / HD15	2601-1100-01	CAP-WD1PCSA1
15 / HD26	2601-1100-02	CAP-WD2PCSA1
25 / HD44	2601-1100-03	CAP-WD3PCSA1

TECHNICAL SPECIFICATIONS

Material:

Connector Body: PBT, UL-recognised
 Connector Pin: Brass, Gold Flash
 Connector Shell: Steel, Ni Plated

Operating Temperature: -40°C to +105°C

Cable Entry: Top

Thumbscrews: UNC 4-40

Waterproof: IP67

Electrical Specifications:

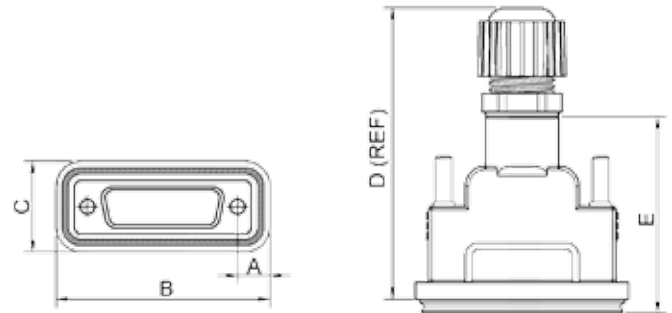
Contact Resistance: < 20mOhm
 Insulation Resistance: > 500Mohm at DC 500V
 Current Rating: 2A (High Density),
 5A (Standard D-Sub)
 Breakdown Voltage: > AC 500V / rms,
 60Hz / 1 minute



20

Features:

- Field Assembly version with snap-in connector
- Available in (SDB) Standard Sizes 9, 15 and 25-pins
- Available in (HDB) High Density 15, 26 and 44-pins
- Female or Male Versions
- Hood Includes Connector – Solder Type
- Hood with Crimp Connector on request
- Hood without Connector available on request



Size	Dim A	Dim B	Dim C	Dim D	Dim E
9-way – HD15-way	8,0	39,4	21,0	39,0	32,3
15-way – HD26-way	8,0	50,6	21,0	43,2	32,3
25-way – HD44-way	8,0	64,5	21,0	55,0	32,3

Ordering information:

Standard Version

Size:	P/N - Kitted:	Product Code:
9-way, Female	2601-0120-01	SDB-09BFFA-SL7001
15-way, Female	2601-0120-02	SDB-15BFFA-SL7001
25-way, Female	2601-0120-03	SDB-25BFFA-SL7001
9-way, Male	2601-0120-11	SDB-09BMMA-SL7001
15-way, Male	2601-0120-12	SDB-15BMMA-SL7001
25-way, Male	2601-0120-13	SDB-25BMMA-SL7001

High-Density Version

Size:	P/N - Kitted:	Product Code:
HD15 - Female	2601-0130-01	HDB-15BFFA-SL7001
HD26 - Female	2601-0130-02	HDB-26BFFA-SL7001
HD44 - Female	2601-0130-03	HDB-44BFFA-SL7001
HD15 - Male	2601-0130-11	HDB-15BMMA-SL7001
HD26 - Male	2601-0130-12	HDB-26BMMA-SL7001
HD44 - Male	2601-0130-13	HDB-44BMMA-SL7001

TECHNICAL SPECIFICATIONS

Material:

Connector Body: PBT, UL Recognized
 Connector Pin: Brass, Gold Flash
 Connector Shell: Steel, Ni Plated

Operating Temperature: -40°C to +105°C

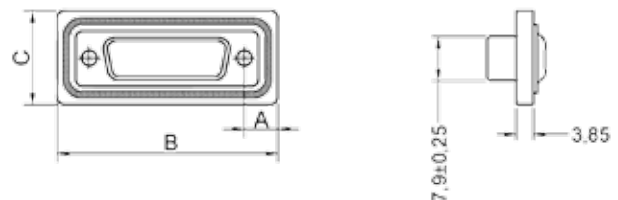
Mounting: Straight or Angled

Screws: UNC 4-40

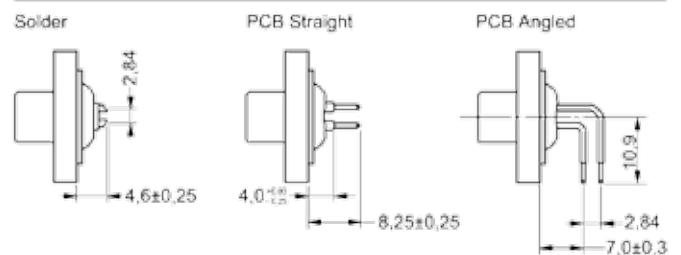
Waterproof: IP67

Electrical Specifications:

Contact Resistance: < 20mOhm
 Insulation Resistance: > 500Mohm at DC 500V
 Current Rating: 2A (High Density),
 5A (Standard D-Sub)
 Breakdown Voltage: > AC 500V / rms,
 60Hz / 1 minute



Standard D-Sub Connectors:



Features:

- Male & Female Connector for Panel Mount
- Available in Sizes 9, 15 and 25-pins
- Also available in High Density (15, 26 and 44 pins)
- Solder, PCB Straight or PCB Angled Types
- Connectors are delivered with Screw Locks, 5mm and 6mm lengths to accomodate different Panel Thickness.

Applications:

- Public Traffic Lights & Automatic Parking Systems
- Industrial Automatic Cleaning, Sealing, Packaging
- Security Systems
- Outdoor LED Light and Monitor
- Industrial Computer Systems
- Military Communication Control Systems
- Robotics
- AP Modem

Size	Dim A	Dim B	Dim C
9-way	7,2	39,4	21,0
15-way	7,2	47,7	21,0
25-way	8,5	64,0	21,0

Order Codes:

Solder Type

Plug Connector		
9-way	2601-0100-11	SDB-09PMMS-SL8001
15-way	2601-0100-12	SDB-15PMMS-SL8001
25-way	2601-0100-13	SDB-25PMMS-SL8001
HD15-way	2601-0110-11	HDB-15PMMS-SL8001
HD26-way	2601-0110-12	HDB-26PMMS-SL8001
HD44-way	2601-0110-13	HDB-44PMMS-SL8001

Socket Connector		
9-way	2601-0100-01	SDB-09PFFS-SL8001
15-way	2601-0100-02	SDB-15PFFS-SL8001
25-way	2601-0100-03	SDB-25PFFS-SL8001
HD15-way	2601-0110-01	HDB-15PFFS-SL8001
HD26-way	2601-0110-02	HDB-26PFFS-SL8001
HD44-way	2601-0110-03	HDB-44PFFS-SL8001

Order Codes:

PCB Type, Straight

Plug Connector		
9-way	2601-0200-11	SDB-09PMMP-SL8001
15-way	2601-0200-12	SDB-15PMMP-SL8001
25-way	2601-0200-13	SDB-25PMMP-SL8001
HD15-way	2601-0210-11	HDB-15PMMP-SL8001
HD26-way	2601-0210-12	HDB-26PMMP-SL8001
HD44-way	2601-0210-13	HDB-44PMMP-SL8001

Socket Connector		
9-way	2601-0200-01	SDB-09PFFP-SL8001
15-way	2601-0200-02	SDB-15PFFP-SL8001
25-way	2601-0200-03	SDB-25PFFP-SL8001
HD15-way	2601-0210-01	HDB-15PFFP-SL8001
HD26-way	2601-0210-02	HDB-26PFFP-SL8001
HD44-way	2601-0210-03	HDB-44PFFP-SL8001

Order Codes:

PCB Type, Angled

Plug Connector		
9-way	2601-0300-11	SDB-09PMMP-SR8001
15-way	2601-0300-12	SDB-15PMMP-SR8001
25-way	2601-0300-13	SDB-25PMMP-SR8001
HD15-way	2601-0310-11	HDB-15PMMP-SR8001
HD26-way	2601-0310-12	HDB-26PMMP-SR8001
HD44-way	2601-0310-13	HDB-44PMMP-SR8001

Socket Connector		
9-way	2601-0300-01	SDB-09PFFP-SR8001
15-way	2601-0300-02	SDB-15PFFP-SR8001
25-way	2601-0300-03	SDB-25PFFP-SR8001
HD15-way	2601-0310-01	HDB-15PFFP-SR8001
HD26-way	2601-0310-02	HDB-26PFFP-SR8001
HD44-way	2601-0310-03	HDB-44PFFP-SR8001

WATERPROOF MODULAR CONNECTORS

RJ45 Series - Panel Connectors

Materials:

Contacts: Copper Alloy w/Gold Plate
Connector Body: PBT (Jack) or PC (Plug)
Full metal body in Zinc

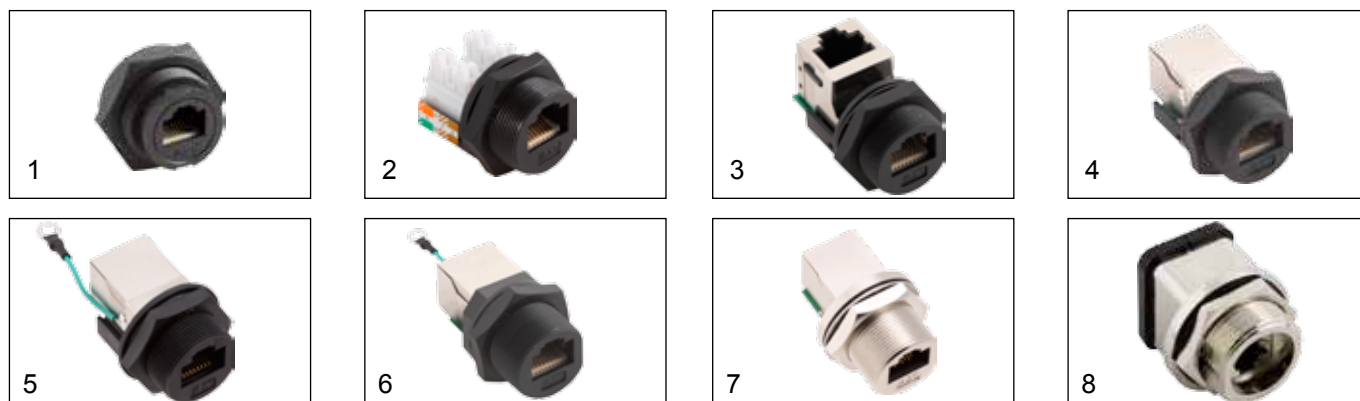
Accessories:

See page 166

Specifications:

Operating Temperature: -20°C to +80°C
Waterproof Rating: IP67 or IP68
Durability: 500 Cycles
Flame Test: UL / CSA FT4
Thermal Shock: 5 cycles at -20°C to +80°C
Salt Spray: 48 hours

Circular RJ45 Panel Connectors



Picture:	Type:	Lock Style:	Category:	Name:	Mating Part:	Part No:
1	Unshielded Panel Jack	Bayonette	Cat 5e	RJ-5EPFFP-LC7001	Picture 9, 10	2640-0105-01
1	Shielded Panel Jack	Bayonette	Cat 5e	RJS-5EPFFP-LC7001	Picture 9, 10	2640-0105-11
2	Unshielded Panel Jack	Screw Nut	Cat 5e	RJ-5EPFFD-SC7001	Picture 9, 10	2640-0101-01
3	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFJ-SC7001	Picture 9, 10	2640-0103-03
4	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFJ-SC7002	Picture 9, 10	2640-0103-02
5	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFJ-SC7003	Picture 9, 10	2640-0103-04
6	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFJ-SC7004*	Picture 9, 10	2640-0103-05
7	Shielded Metal Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFJ-SC7008*	Picture 11	2640-0103-09
8	Shielded Metal Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFD-SC7001	Picture 12	2640-0107-01
8	Shielded Metal Panel Jack	Screw Nut	Cat 6	RJS-06PFFD-SC7001	Picture 12	2640-0107-02

***SC7004 & SC7008 - IP67 when Un-Mated**

Square RJ45 Panel Connectors & Accessories



Picture:	Type:	Lock Style:	Category:	Name:	Mating Part:	Part No:
13	Unshielded Panel Jack	Screw Nut	Cat 5e	RJ-5EPFFD-SS7001	Picture 20	2640-0106-01
13	Unshielded Panel Jack	Screw Nut	Cat 6	RJ-06PFFD-SS7001	Picture 20	2640-0106-02
14	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-00PFFR-SS7001	Picture 18,19	2640-0104-01
15	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFD-SS7002	Picture 18,19	2640-0102-01
16	Shielded Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFJ-SS7001	Picture 18,19	2640-0103-01
17	Shielded Metal Panel Jack	Screw Nut	Cat 5e	RJS-5EPFFD-SS7001	Picture 21	2640-0107-03
17	Shielded Metal Panel Jack	Screw Nut	Cat 6	RJS-06PFFD-SS7001	Picture 21	2640-0107-04

WATERPROOF MODULAR CONNECTORS

Plug Housings for Circular RJ45 Connectors



Picture:	Type:	Style:	Name:	Mating Part:	Part No:
9	Housing w/o Strain Relief	Unshielded / Screw Nut	RJ-00BMMA-SL7005	Picture 2,3,4,5,6	2640-0101-07
9	Housing w/o Strain Relief	Unshielded / Bayonette	RJ-00BMMA-LL7001	Picture 1	2640-0101-15
10	Housing with Strain Relief	Unshielded / Screw Nut	RJ-00AMMA-SL7002	Picture 2,3,4,5,6	2640-0101-08
10	Housing with Strain Relief	Unshielded / Bayonette	RJ-00AMMA-LL7001	Picture 1	2640-0101-14
11	Housing w/o Strain Relief	Shielded / Screw Nut	RJ-00BMMA-SL7006	Picture 7, 23	2640-0101-06
12	Housing w/o Strain Relief	Shielded / Screw Nut	RJ-00BMMA-SL7003	Picture 8	2640-0101-16

Plug Housings for Square RJ45 Connectors



Picture:	Type:	Style:	Name:	Mating Part:	Part No:
18	Housing w/o Strain Relief	Shielded / Screw Nut	RJ-00BMMA-SL7004	Picture 14,15,16, 34	2640-0101-09
19	Housing with Strain Relief	Shielded / Screw Nut	RJ-00AMMA-SL7001	Picture 14,15,16, 34	2640-0101-10
20	Housing w/o Strain Relief	Shielded / Screw Nut	RJ-00BMMA-SL7002	Picture 13	2640-0101-13
21	Housing w/o Strain Relief	Shielded / Screw Nut	RJ-00BMMA-SL7003	Picture 17	2640-0101-16

Ready Cable - Male & Female RJ Connectors



Picture:	Type:	Style:	Category:	Name:	Mating Part:	Part No:
22	Panel w. Cable	Shielded / Screw	Cat 5e	RJS-5EPFFJ-SC7005*	Picture 9, 10, 25, 27, 28, 29	2640-0103-06
22	Panel w. Cable	Shielded / Screw	Cat 5e	RJS-5EPFFJ-SC7006	Picture 9, 10, 25, 27, 28, 29	2640-0103-07
23	Panel w. Cable	Shielded Metal / Screw	Cat 5e	RJS-5EPFFJ-SC7009	Picture 11	2640-0103-10
24	Female Cable	Unshielded / Screw	Cat 5e	RJ-5EAFFM-SL7D yy	Picture 9, 10, 25, 27, 28, 29	2641-0002- yy
24	Female Cable	Shielded / Screw	Cat 5e	RJS-5EAFFM-SL7E yy	Picture 9, 10, 25, 27, 28, 29	2641-0010- yy
25	Male / Straight	Unshielded / Bayonette	Cat 5e	RJ-5EAMMM-LL7D yy	Picture 1	2641-0003- yy
25	Male / Straight	Shielded / Bayonette	Cat 5e	RJS-5EAMMM-LL7E yy	Picture 1	2641-0011- yy
25	Male / Right Angled	Unshielded / Bayonette	Cat 5e	RJ-5EAMMM-LR7D yy	Picture 1	2641-0004- yy
25	Male / Right Angled	Shielded / Bayonette	Cat 5e	RJS-5EAMMM-LR7E yy	Picture 1	2641-0012- yy
25	Male / Straight	Shielded / Screw	Cat 5e	RJS-5EBMMM-SL7E yy	Picture 2, 3, 4, 5, 6, 24	2641-0015- yy
26	Male / Straight	Shielded / Screw	Cat 5e	RJS-5EAMMM-SL7E yy	Picture 14, 15, 16, 34	2641-0013- yy
26	Male / Right Angled	Shielded / Screw	Cat 5e	RJS-5EAMMM-SR7E yy	Picture 14, 15, 16, 34	2641-0014- yy

Example product: RJ-5EAFFM-SL7D10

Example: (Item #24) RJ-5EAFFM-SL7D10
2641-0002-**10**
Unshielded (UTP), Screw Type, **10m** Cable

* With Earth wire

Code, yy: (01-99): 01 meter up to 99 meters

WATERPROOF MODULAR CONNECTORS

RJ45 Series - Accessories

Materials:

Contacts: Copper Alloy w/Gold Plate
Connector Body: PBT (Jack) or PC (Plug)
Full metal body in Zinc

Specifications:

Operating Temperature: -20°C to +80°C
Waterproof Rating: IP67 or IP68
Durability: 500 Cycles
Flame Test: UL / CSA FT4
Thermal Shock: 5 cycles at -20°C to +80°C
Salt Spray: 48 hours

Waterproof Caps for Circular and Square RJ45 panel connectors



Picture:	Style:	Name:	Mating Part:	Part No:
27	Screw / Chain	CAP-WACPMSB1	Picture 2, 3, 4, 5, 6, 22, 24	2649-0101-01
27	Screw / Rubber Lead	CAP-WACPMSC1	Picture 2, 3, 4, 5, 6, 22, 24	2649-0101-14
27	Screw / Nylon String	CAP-WACPMSD1	Picture 2, 3, 4, 5, 6, 22, 24	2649-0101-04
28	Lock / Chain	CAP-WADPMLB1	Picture 1	2649-0101-02
28	Lock / Rubber Lead	CAP-WADPMLC1	Picture 1	2649-0101-06
29	Screw / Chain	CAP-WAFPMSB1	Picture 14, 15, 16	2649-0101-10
29	Screw / Rubber Lead	CAP-WAFPMSC1	Picture 14, 15, 16	2649-0101-11
30	Screw / Chain	CAP-WACPMSB2	Picture 7, 23	2649-0101-20
30	Screw / Rubber Lead	CAP-WACPMSC2	Picture 7, 23	2649-0101-21
30	Screw / Nylon String	CAP-WACPMSD2	Picture 7, 23	2649-0101-22

Couplers & Jack Connectors for RJ45



Picture:	Style:	Name:	Mating Part:	Part No:
31	Coupler / Panel	RJS-00PFFJ-SC7001	On request	2640-0120-01
32	Coupler / Panel / Field Assembly	RJS-00PFFA-SC7001		2640-0108-01
33	Coupler / Field Assembly	RJS-00BFFA-SL7001		2640-0108-02
34	Coupler / Cable to Cable Adapter	RS-000000-OFF-IS001	18, 19, 26	2640-0120-02

Junction Boxes and Panel Feed-Through Sealing for RJ45



Picture:	Style:	Name:	Mating Part:	Part No:
37	Junction Box / Screw -1c	BOX-RJE11	9, 10, 25, 27	2649-1000-11
38	Junction Box / Screw -2c	BOX-RJE22	9, 10, 25, 27	2649-1000-22
39	Junction Box / Screw -4c	BOX-RJE44	9, 10, 25, 27	2649-1000-44
40	Shielded / Field Assy.	RJM-00BMMA-SL7001	For non-IP Patch Cable only Ø5-7mm	2649-0500-01
40	Shielded / Field Assy.	RJM-00BMMA-SL7002	For non-IP Patch Cable only Ø8-9mm	2649-0500-02

#40 - Also available in Unshielded Black Plastic version on request

WATERPROOF MINI DIN CONNECTORS

MINI-DIN Series

Materials:

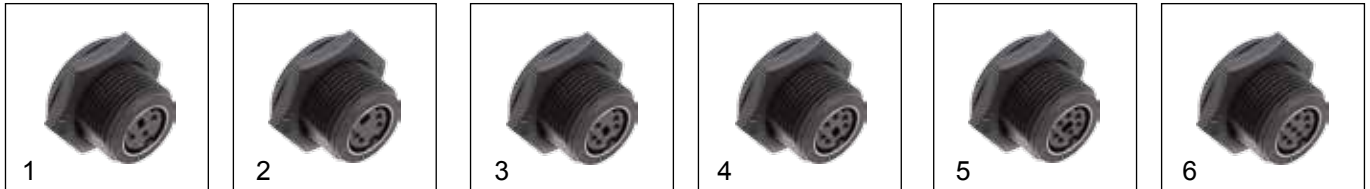
Contacts: Copper Alloy w/Gold Plate
Connector Body: PBT - UL94 V-0

Specifications:

Operating Temperature: -20°C to +80°C
Waterproof Rating: IP67 or IP68
Contact Resistance: ≤ 20mΩ Max
Insulation Resistance: ≥ 50MΩ at DC 250V.
Breakdown Voltage: AC 250V / minute

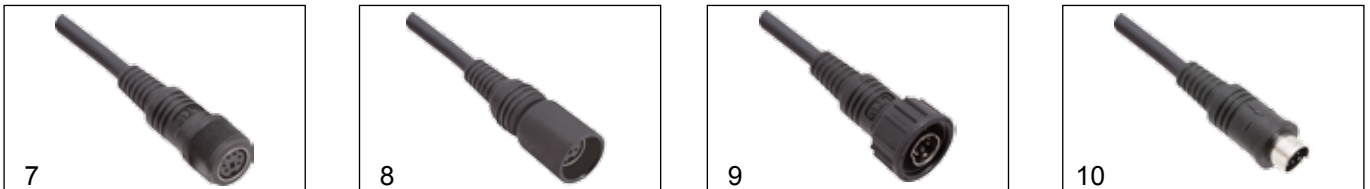
20

Panel Connectors



Picture:	Style:	Lock Style:	Name:	Mating Part:	Part No:
1	3-pol Panel Conn.	Screw Nut	MID-03PMFS-SC7001	Picture 9	2670-0101-01
2	4-pol Panel Conn.	Screw Nut	MID-04PMFS-SC7001	Picture 9	2670-0101-02
3	5-pol Panel Conn.	Screw Nut	MID-05PMFS-SC7001	Picture 9	2670-0101-03
4	6-pol Panel Conn.	Screw Nut	MID-06PMFS-SC7001	Picture 9	2670-0101-04
5	7-pol Panel Conn.	Screw Nut	MID-07PMFS-SC7001	Picture 9	2670-0101-05
6	8-pol Panel Conn.	Screw Nut	MID-08PMFS-SC7001	Picture 9	2670-0101-06

Connectors Moulded with Cable:



Picture:	Style:	Lock Style:	Name:	Mating Part:	Part No:
7	Female Cable Conn.	Screw Lock	MID-xxAMFM-SL7Ayy	Picture 9	2670-020*-**
8	Female Cable Conn.	Quick Lock	MID-xxAMFM-QL7Ayy	Picture 10	2670-030*-**
9	Male Cable Conn.	Screw Lock	MID-xxAFMM-SL7Ayy	Picture 1, 2, 3, 4, 5, 6, 7	2670-040*-**
10	Male Cable Conn.	Quick Lock	MID-xxAFMM-QL7Ayy	Picture 8	2670-050*-**

Example product: MID-06AMFM-SL7A02

xx: No. of pins (03, 04, 05, 06, 07, 08) MID-06AMFM-SL7A02
yy: Length of cable in meters (01...99) 2670-0204-02

*: 1=3pin, 2=4pin, 3=5pin, 4=6pin, 5=7pin, 6=8pin
**: Length of cable in meters (01...99)

WATERPROOF USB CONNECTORS

USB Series

Materials:

Contacts: Copper Alloy w/Gold Plate
Connector Body: PBT UL90 V-0

Specifications:

Operating Temperature: -20°C to +80°C
Waterproof Rating: IP67 or IP68
Contact Resistance: ≤ 30mΩ Max
Insulation Resistance: ≥ 1000MΩ Min.
Breakdown Voltage: AC 500V / minute

Commonly Ordered Parts:

Female Connectors



Picture:	Type:	Name:	Mating Part:	Part No:
1	USB A - PCB / Bayonette	UA-20PMFP-LC7001	Picture 6, 8	2630-0501-02
1	USB B - PCB / Bayonette	UB-20PMFP-LC7001	Picture 6, 8	2630-0502-02
1	USB A - PCB / Screw Nut	UA-20PMFP-SC8001	Picture 5, 7	2630-0101-02
1	USB B - PCB / Screw Nut	UB-20PMFP-SC8001	Picture 5, 7	2630-0102-02
2	USB A - 2.0 - PCB / Screw Nut	UA-20PMFP-SC8002	Picture 5, 7	2630-0101-01
2	USB B - 2.0 - PCB / Screw Nut	UB-20PMFP-SC8002	Picture 5, 7	2630-0102-01
3	USB A - 2.0 - FA / Screw Nut	UA-20BMFA-SL8001	Picture 5, 7	2630-0801-01
3	USB B - 2.0 - FA / Screw Nut	UB-20BMFA-SL8001	Picture 5, 7	2630-0801-02
4	USB A - 2.0 - Straight / Screw Nut	UA-20AMFM-SL7Axx	Picture 5, 7	2630-0201-xx
4	USB B - 2.0 - Straight / Screw Nut	UB-20AMFM-SL7Axx	Picture 5, 7	2630-0202-xx

xx = Length of cable in meters (01m...99m)
Example: 2630-0201-05 (5m cable)

Commonly Ordered Parts:

Male Connectors & Waterproof Caps



Picture:	Type:	Name:	Mating Part:	Part No:
5	USB A - 2.0 - Straight / Screw Nut	UA-20BFMM-SL7Axx	Picture 2, 3, 4	2630-0301-xx
5	USB B - 2.0 - Straight / Screw Nut	UB-20BFMM-SL7Axx	Picture 2, 3, 4	2630-0303-xx
6	USB A - 2.0 - 90° / Bayonette	UA-20AFMM-LR7Axx	Picture 1	2630-0320-xx
6	USB B - 2.0 - 90° / Bayonette	UB-20AFMM-LR7Axx	Picture 1	2630-0420-xx
7	CAP - Screw / Chain	CAP-WACPSMB1	Picture 2, 3, 4	2649-0101-01
7	CAP - Screw / Rubber Lead	CAP-WACPMSC1	Picture 2, 3, 4	2649-0101-14
7	CAP - Screw / Nylon String	CAP-WACPMSD1	Picture 2, 3, 4	2649-0101-04
8	CAP - Bayonette / Chain	CAP-WADPMLB1	Picture 1	2649-0101-02
8	CAP - Bayonette / Rubber Lead	CAP-WADPMLC1	Picture 1	2649-0101-06

xx = Length of cable in meters (01m...99m)
Example: 2630-0301-05 (5m cable)

WATERPROOF USB CONNECTORS

Waterproof USB to Non-Waterproof USB, Moulded with Cable

Materials:

Contacts: Copper Alloy w/Gold Plate
 Connector Body: PBT UL90 V-0
 Operating Temperature: -20°C to +80°C
 Cable Lengths (L): 1 to 5 meters (01....05)

Notes:

All Cables are delivered with Strain Relief.
 Standard is USB Type A and USB Type B.
 Miniature USB on request.
 Cable Without Strain Relief on request.

20

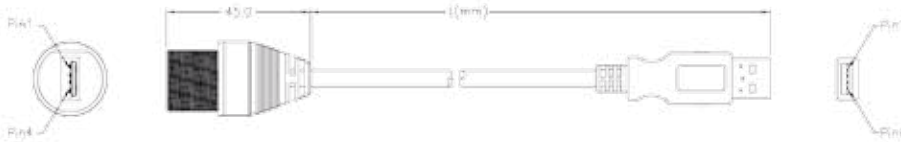
How to Order:

2630-0401-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type A Female IP67 to Type A Male Non-IP

LTWUA-20AMF-A7A XX



Type A Male IP67 to Type A Male Non-IP

LTWUA-20BFM-A7A XX



2630-0402-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type A Female IP67 to Type B Male Non-IP

LTWUA-20AMF-B7A XX



2630-0403-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type A Male IP67 to Type B Male Non-IP

LTWUA-20BFM-B7A XX



2630-0404-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type B Female IP67 to Type A Male Non-IP

LTWUB-20AMF-A7A XX



2630-0405-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type B Male IP67 to Type A Male Non-IP

LTWUB-20BFM-A7A XX



2630-0406-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type B Female IP67 to Type B Male Non-IP

LTWUB-20AMF-B7A XX



2630-0407-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

Type B Male IP67 to Type B Male Non-IP

LTWUB-20BFM-B7A XX



2630-0408-XX

XX: 01=1m
 02=2m
 03=3m
 04=4m
 05=5m

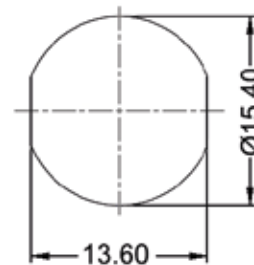
WATERPROOF SENSOR CONNECTORS

M12 Series

Material Specifications:

Connector Types:	PCB, Solder, Field Assembly, Moulded with Cable
Pin Configurations:	From 2 pins up to 8 pins
Materials:	Connector Body: Nylon + GF or PU UL recognized
	Connector Pins: Copper Alloy, Gold Plated
Waterproof:	IP65 - IP68
Temperature Range:	Connector Body: -25°C to +90°C

Recommended Panel Cut-Out:



Technical Specifications:

Contact Resistance:	≤ 10mΩ
Insulation Resistance:	≥ 100MΩ at DC 500V
Current Rating:	2A, 5A, 10A, 20A
Breakdown Voltage:	> AC 1000V / 1 minute ≥ AC 500V / 1 min. (1,5-5A)
Type of Codings:	B-Code, D-Code or I-Style

Features:

- M8 and M10.5 available on request
- Connectors according to Standard **NMEA 2000** available on request
- All M12 Sensor connectors are according to Industrial Standard
- B-Code and D-Code on request.
- I-Style (Mixed Female / Male connector pins) available on request.

Hexagonal Rear Mount Style (SH)

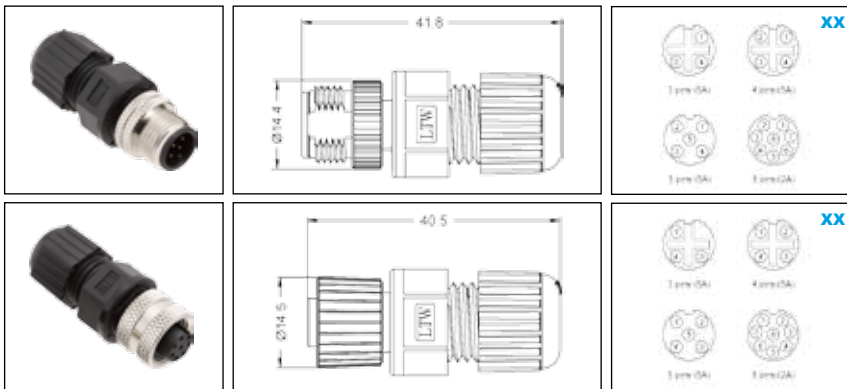
	 Solder Cup S	 XX	Male Panel Connector: Solder Cup LTW12- XX PMMS-SH8001 Example: LTW12-04PMMS-SH8001
	 Solder Cup S	 XX	Female Panel Connector: Solder Cup LTW12- XX PFFS-SH8001 Example: LTW12-04PFFS-SH8001

Hexagonal Front Mount Style (SF)

	 PCB Solder P Solder Cup S	 XX	Male Panel Connector: PCB Solder LTW12- XX PMMP-SF8001 Solder Cup LTW12- XX PMMS-SF8001 Example: LTW12-04PMMS-SF8001
	 PCB Solder P Solder Cup S	 XX	Female Panel Connector: PCB Solder LTW12- XX PFFP-SF8001 Solder Cup LTW12- XX PFFS-SF8001 Example: LTW12-04PFFS-SF8001

WATERPROOF SENSOR CONNECTORS

Field Assembly Style Connectors for Cable Mount



Male Field Assembly Connector:

LTW12-XXBMMA-SL8001

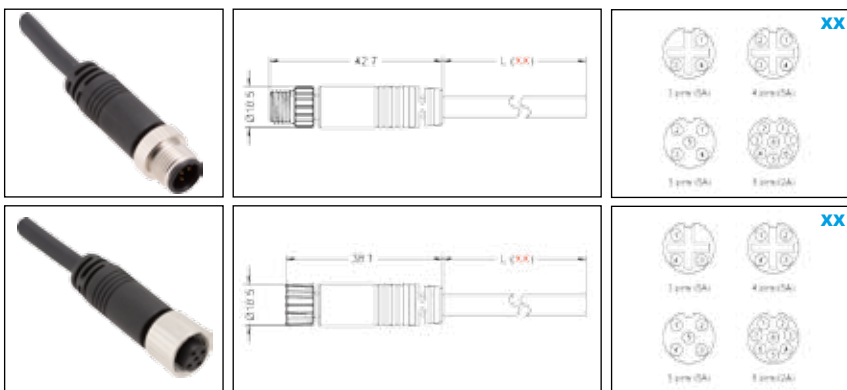
Example: LTW12-04BMMA-SL8001

Female Field Assembly Connector:

LTW12-XXBFFA-SL8001

Example: LTW12-04BFFA-SL8001

Connectors moulded with Cable, Straight (180°)



Male Cable Connector:

LTW12-XXAMMM-SL7AXX

Example: LTW12-04AMMM-SL7A03

Lengths XX: 01=01m, 02=02m.....99=99m

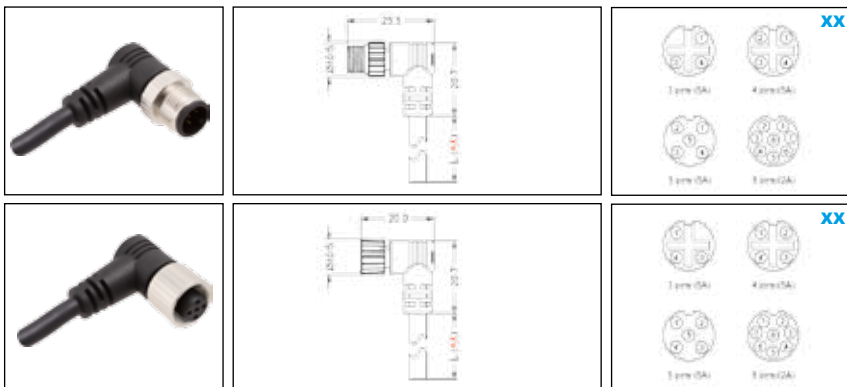
Female Cable Connector:

LTW12-XXAFFM-SL7AXX

Example: LTW12-04AFFM-SL7A03

Lengths XX: 01=01m, 02=02m.....99=99m

Connectors moulded with Cable, Angled (90°)



Male Cable Connector:

LTW12-XXAMMM-SR7AXX

Example: LTW12-04AMMM-SR7A03

Lengths XX: 01=01m, 02=02m.....99=99m

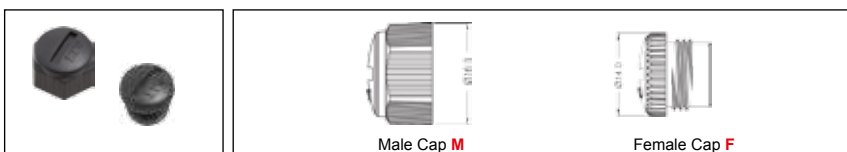
Female Cable Connector:

LTW12-XXAFFM-SR7AXX

Example: LTW12-04AFFM-SR7A03

Lengths XX: 01=01m, 02=02m.....99=99m

Waterproof Caps for Sensor M12



Male Cap: LTWCAP-WBDMMSA1

Female Cap: LTWCAP-WBDMFSA1

Other Accessories - Available on Request



T-Adaptors with and without Cable



Cable Connectors with LED



Y-Adaptor Kits

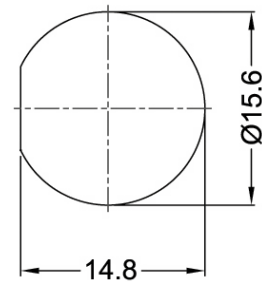
WATERPROOF CIRCULAR CONNECTORS

Standard Size Circular Connectors

Material Specifications:

Connector Types:	PCB, Solder, Crimp, Field Assembly,
Pin Configurations:	From 2 pins up to 31 pins
Materials:	Connector Body: Nylon + GF UL recognized Connector Pins: Copper Alloy, Gold Plated
Waterproof:	IP66 - IP67
Temperature Range:	Connector Body: -40°C to +105°C
Environmental Spec:	48 Hours Salt Spray Contact
Durability:	3000 Plug / Unplug Cycles Minimum

Recommended Panel Cut-Out:



Technical Specifications:

Contact Resistance:	$\leq 10\text{m}\Omega$
Insulation Resistance:	$\geq 100\text{M}\Omega$ at DC 500V
Current Rating:	2A, 5A, 10A, 20A
Breakdown Voltage:	$\geq \text{AC } 1000\text{V} / 1 \text{ minute}$ $\geq \text{AC } 500\text{V} / 1 \text{ min. (1,5-5A)}$

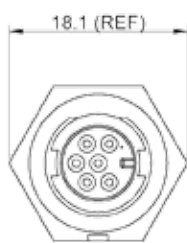
Features:

We have chosen to feature only the Standard Size Connector in this catalogue.

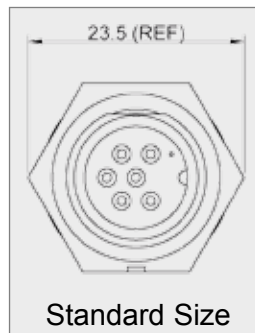
All other sizes are still available from Encitech Connectors AB.

Please consult your local Encitech Office for further information about the available sizes and types.

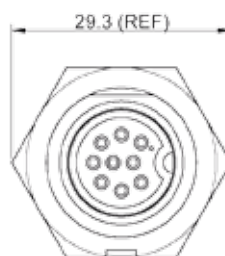
Available Sizes and Pins:



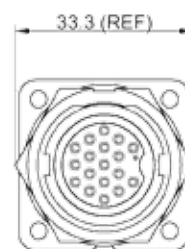
Mini Size



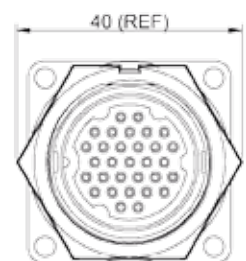
Standard Size



Middle Size



Large Size

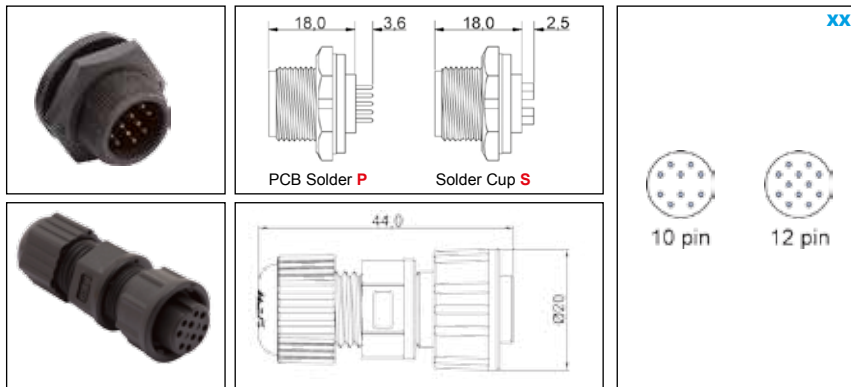


Macro Size

Mini Size:	Available in 2pin, 3pin, 4pin, 5pin, 6pin
Standard Size:	Available in 2pin, 3pin, 4pin, 5pin, 6pin, 7pin, 8pin, 10pin, 12pin
Middle Size:	Available in 3pin, 4pin, 5pin, 6pin, 7pin, 8pin, 9pin, 10pin, 11pin, 12pin, 13pin, 14pin, 18pin
Large Size:	Available in 2pin, 3pin, 4pin, 5pin, 6pin, 7pin, 18pin, 20pin, 21pin, 22pin
Macro Size:	Available in 31pin

WATERPROOF CIRCULAR CONNECTORS

2 Amp - Screw Type, Front Mount + Mating Field Assembly Connector



PCB Solder LTWBU-XXPMM**P**-SC7001

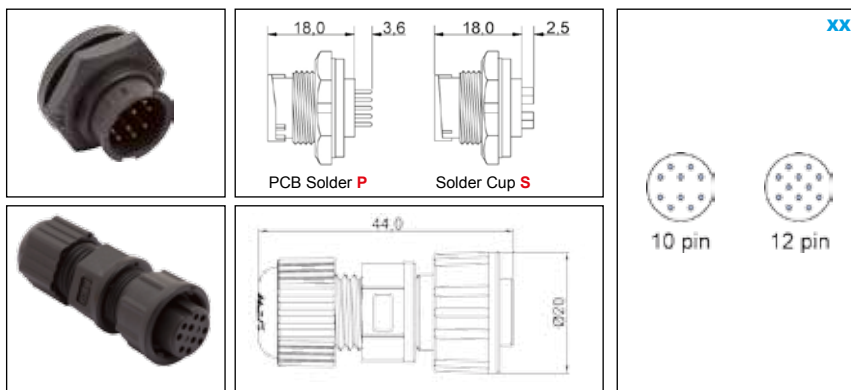
Solder Cup LTWBU-XXPMM**S**-SC7001

Example: LTWBU-10PMM**S**-SC7001

LTWBU-XXBFFA-SL7001

Example: LTWBU-10BFFA-SL7001

2 Amp - Lock (Bayonette) Type, Front Mount + Mating Field Assembly Connector



PCB Solder LTWBU-XXPMM**P**-LC7001

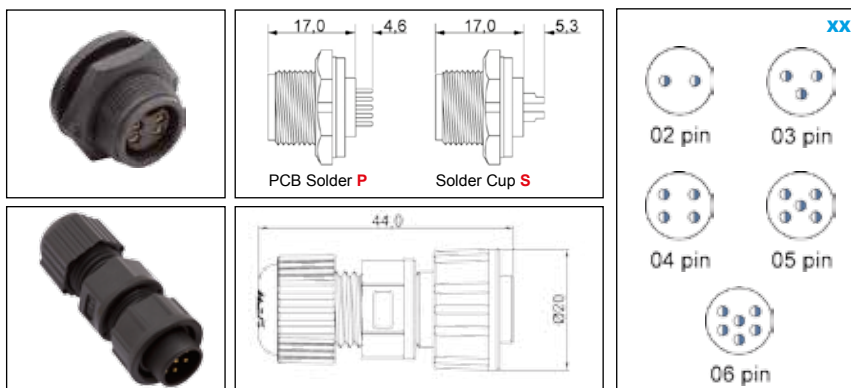
Solder Cup LTWBU-XXPMM**S**-LC7001

Example: LTWBU-10PMM**S**-LC7001

LTWBU-XXBFFA-LL7001

Example: LTWBU-10BFFA-LL7001

5 Amp - Screw Type, Front Mount + Mating Field Assembly Connector



PCB Solder LTWBD-XXPMF**P**-SC7001

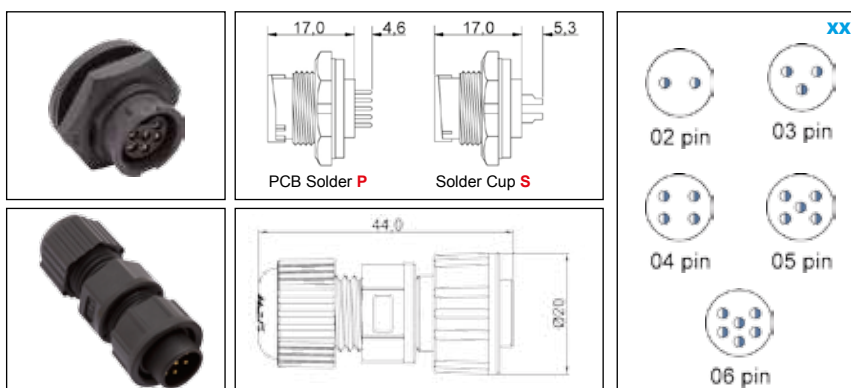
Solder Cup LTWBD-XXPMF**S**-SC7001

Example: LTWBD-04PMF**S**-SC7001

LTWBD-XXBFMA-SL7001

Example: LTWBD-04BFMA-SL7001

5 Amp - Lock (Bayonette) Type, Front Mount + Mating Field Assembly Connector



PCB Solder LTWBD-XXPMF**P**-LC7001

Solder Cup LTWBD-XXPMF**S**-LC7001

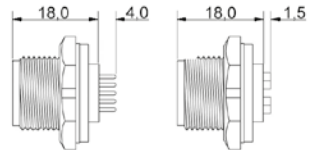
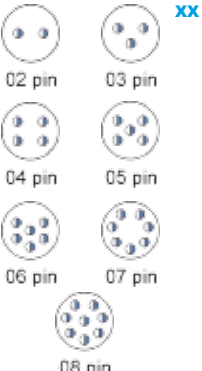
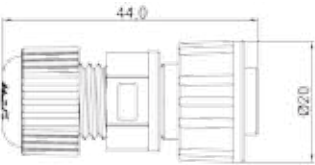
Example: LTWBD-04PMF**S**-LC7001

LTWBD-XXBFMA-LL7001

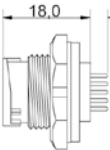
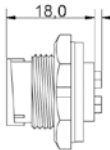
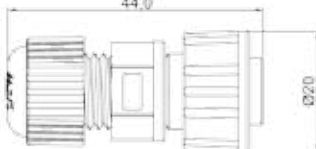
Example: LTWBD-04BFMA-LL7001

WATERPROOF CIRCULAR CONNECTORS

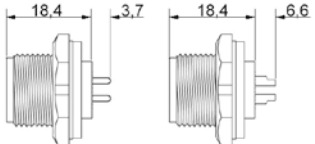
5 Amp - Screw Type, Front Mount + Mating Field Assembly Connector

	 PCB Solder P Solder Cup S	 xx	<table><tr><td>PCB Solder</td><td>LTWBD-xxPMMP-SC7001</td></tr><tr><td>Solder Cup</td><td>LTWBD-xxPMMS-SC7001</td></tr></table>	PCB Solder	LTWBD-xxPMM P -SC7001	Solder Cup	LTWBD-xxPMM S -SC7001		
PCB Solder	LTWBD-xxPMM P -SC7001								
Solder Cup	LTWBD-xxPMM S -SC7001								
			<table><tr><td>Example:</td><td>LTWBD-06PMMS-SC7001</td></tr><tr><td colspan="2">LTWBD-xxBFFA-SL7001</td></tr><tr><td>Example:</td><td>LTWBD-06BFFA-SL7001</td></tr></table>	Example:	LTWBD-06PMM S -SC7001	LTWBD-xxBFFA-SL7001		Example:	LTWBD-06BFFA-SL7001
Example:	LTWBD-06PMM S -SC7001								
LTWBD-xxBFFA-SL7001									
Example:	LTWBD-06BFFA-SL7001								

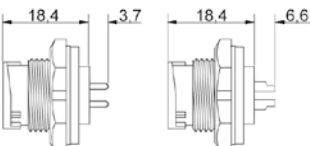
5 Amp - Lock (Bayonette) Type, Front Mount + Mating Field Assembly Connector

	 PCB Solder P	 Solder Cup S	 02 pin	 03 pin	PCB Solder LTWBD-XXPMM P -LC7001
			 04 pin	 05 pin	Solder Cup LTWBD-XXPMM S -LC7001
			 06 pin	 07 pin	Example: LTWBD-10PMM S -LC7001
			 08 pin		LTWBD-XXBFFA-LL7001
					Example: LTWBD-10BFFA-LL7001

10 Amp - Screw Type, Front Mount + Mating Field Assembly Connector

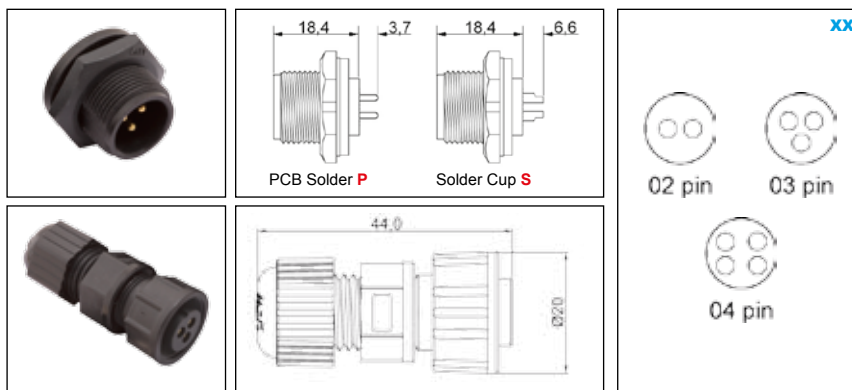
	 PCB Solder P Solder Cup S	xx  02 pin  03 pin	PCB Solder	LTWBB-xxPMF P -SC7001
			Solder Cup	LTWBB-xxPMF S -SC7001
			Example:	LTWBB-03PMF S -SC7001
				LTWBB-xxBFMA-SL7001
			Example:	LTWBB-03BFMA-SL7001

10 Amp - Lock (Bayonette) Type, Front Mount + Mating Field Assembly Connector

	 PCB Solder P Solder Cup S	xx  02 pin  03 pin	PCB Solder	LTWBB-xxPMF P -LC7001
			Solder Cup	LTWBB-xxPMF S -LC7001
			Example:	LTWBB-03PMF S -LC7001
				LTWBB-xxBFMA-LL7001
			Example:	LTWBB-03BFMA-LL7001

WATERPROOF CIRCULAR CONNECTORS

10 Amp - Screw Type, Front Mount + Mating Field Assembly Connector



PCB Solder LTWBB-XXPMM**P**-SC7001

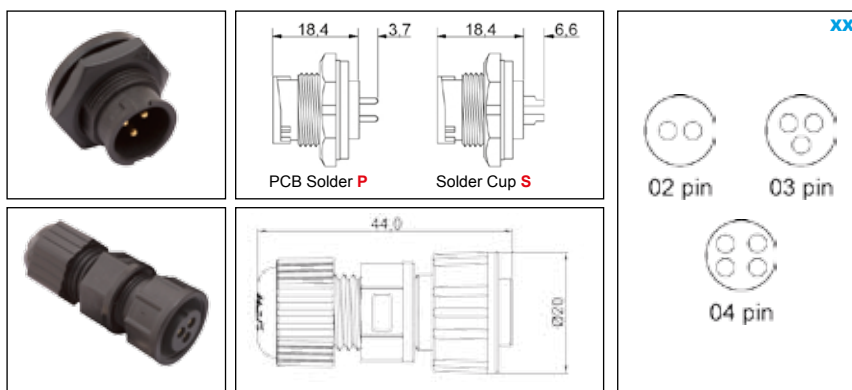
Solder Cup LTWBB-XXPMM**S**-SC7001

Example: LTWBB-04PMM**S**-SC7001

LTWBB-XXBFFA-SL7001

Example: LTWBB-04BFFA-SL7001

10 Amp - Lock (Bayonette) Type, Front Mount + Mating Field Assembly Connector



PCB Solder LTWBB-XXPMM**P**-LC7001

Solder Cup LTWBB-XXPMM**S**-LC7001

Example: LTWBB-04PMM**S**-LC7001

LTWBB-XXBFFA-LL7001

Example: LTWBB-04BFFA-LL7001

5 Amp - Lock (Bayonette) Type, Field Assembly Cable Connector



LTWBD-XXBMFA-LL7001

Example: LTWBD-06BMFA-LL7001

BMFA: 2pin, 3pin, 4pin, 5pin & 6pin

LTWBD-XXBMMA-LL7001

Example: LTWBD-08BMMA-LL7001

BMMA: 2pin, 3pin, 4pin, 5pin, 6pin, 7pin & 8pin

Accessories and Cables



Moulded With Cable



Panel Connector With Cable



Waterproof Caps, IP67



Dust Caps for Panel or Cable

Accessories and Connector Moulded with Cable available upon request.

WATERPROOF CIRCULAR II CONNECTORS

Circular II Connector Series - Full Metal

Specifications:

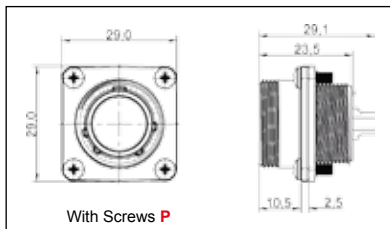
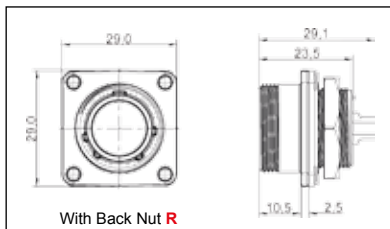
Connector Types:	Solder Cup, Field Assembly,
Pin Configurations:	From 2 pins up to 14 pins
Materials:	Connector Body: Zinc Alloy, Nickel Plated Connector Pins: Copper Alloy, Sn/Ni Plated Gasket: Silicone Insulation: Nylon (Black)
Waterproof:	IP68
Temperature Range:	Connector Body: -25°C to +85°C
Environmental Spec:	48 Hours Salt Spray Contact (L-Type) 500 Hours Salt Spray Contact (H-Type)
Current Rating:	5A, 10A, 15A
Maximum Cable O.D:	Ø 5,5mm up to Ø 12,5mm
Standard:	JIS C-5432



Features:

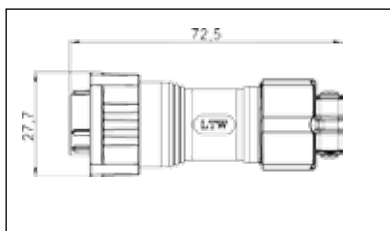
Full Metal Connector, Shell Size 16. This Circular II metal version is based on Japanese standard JIS C-5432 to design and develop; providing weather and corrosion resistance in applications such as industrial automation and outdoor mechanical equipments in rugged environments.

5 Amp Panel Connector



Type:	Name:	Part No:
L-Type	LD-10 R MFS-SS8001	2625-0500-01
L-Type	LD-12 R MFS-SS8001	2625-0500-02
L-Type	LD-14 R MFS-SS8001	2625-0500-03
H-Type	HD-10 R MFS-SS8001	2625-0510-01
H-Type	HD-12 R MFS-SS8001	2625-0510-02
H-Type	HD-14 R MFS-SS8001	2625-0510-03
L-Type	LD-10 P MFS-SS8001	2625-0501-01
L-Type	LD-12 P MFS-SS8001	2625-0501-02
L-Type	LD-14 P MFS-SS8001	2625-0501-03
H-Type	HD-10 P MFS-SS8001	2625-0511-01
H-Type	HD-12 P MFS-SS8001	2625-0511-02
H-Type	HD-14 P MFS-SS8001	2625-0511-03

5 Amp Field Assembly Cable Connector

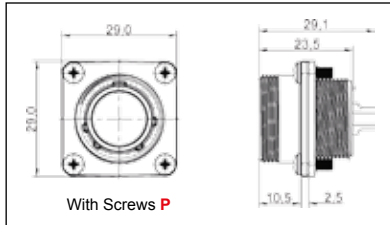
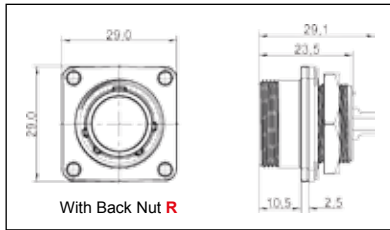


Type:	Name:	Part No:
L-Type	LD-10 B FMA-SL8001	2625-0502-01
L-Type	LD-12 B FMA-SL8001	2625-0502-02
L-Type	LD-14 B FMA-SL8001	2625-0502-03
H-Type	HD-10 B FMA-SL8001	2625-0512-01
H-Type	HD-12 B FMA-SL8001	2625-0512-02
H-Type	HD-14 B FMA-SL8001	2625-0512-03

WATERPROOF CIRCULAR II CONNECTORS

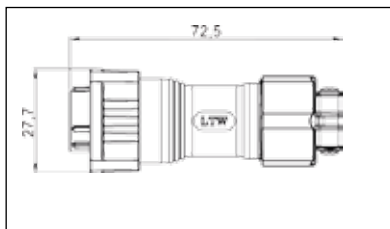
20

10 Amp Panel Connector



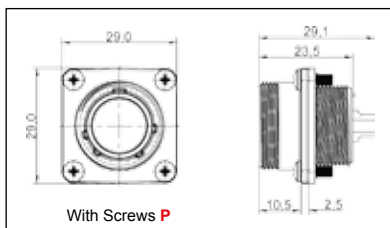
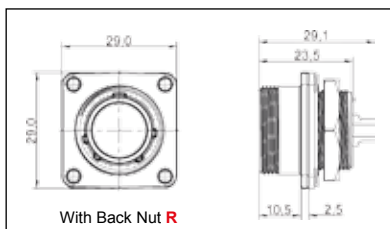
Type:	Name:	Part No:
L-Type	LB-04RMFS-SS8001	2625-1000-01
L-Type	LB-05RMFS-SS8001	2625-1000-02
L-Type	LB-07RMFS-SS8001	2625-1000-03
H-Type	HB-04RMFS-SS8001	2625-1010-01
H-Type	HB-05RMFS-SS8001	2625-1010-02
H-Type	HB-07RMFS-SS8001	2625-1010-03
L-Type	LB-04PMFS-SS8001	2625-1001-01
L-Type	LB-05PMFS-SS8001	2625-1001-02
L-Type	LB-07PMFS-SS8001	2625-1001-03
H-Type	HB-04PMFS-SS8001	2625-1011-01
H-Type	HB-05PMFS-SS8001	2625-1011-02
H-Type	HB-07PMFS-SS8001	2625-1011-03

10 Amp Field Assembly Cable Connector



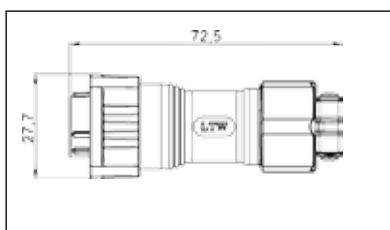
Type:	Name:	Part No:
L-Type	LB-04BFMA-SL8001	2625-1002-01
L-Type	LB-05BFMA-SL8001	2625-1002-02
L-Type	LB-07BFMA-SL8001	2625-1002-03
H-Type	HB-04BFMA-SL8001	2625-1012-01
H-Type	HB-05BFMA-SL8001	2625-1012-02
H-Type	HB-07BFMA-SL8001	2625-1012-03

20 Amp Panel Connector



Type:	Name:	Part No:
L-Type	LC-02RMFS-SS8001	2625-1500-01
L-Type	LC-03RMFS-SS8001	2625-1500-02
H-Type	HC-02RMFS-SS8001	2625-1510-01
H-Type	HC-03RMFS-SS8001	2625-1510-02
L-Type	LC-02PMFS-SS8001	2625-1501-01
L-Type	LC-03PMFS-SS8001	2625-1501-02
H-Type	HC-02PMFS-SS8001	2625-1511-01
H-Type	HC-03PMFS-SS8001	2625-1511-02

20 Amp Field Assembly Cable Connector



Type:	Name:	Part No:
L-Type	LC-02BFMA-SL8001	2625-1502-01
L-Type	LC-03BFMA-SL8001	2625-1502-02
H-Type	HC-02BFMA-SL8001	2625-1512-01
H-Type	HC-03BFMA-SL8001	2625-1512-02

SOLAR / PHOTOVOLTAIC CONNECTORS

Material & Technical Specifications:

Materials:	UL 94 V-0 Plastic, UV Resistant (PPE)
Waterproof:	IP66 (Box) - IP67 (Connectors)
Cable Lengths:	0.5m up to 5m (Standard Lengths) Other lengths on request.
Temperature Range:	-40°C to +90°C
Current Resistance:	30A (Connector) 20A (Box)
Voltage Resistance:	1000V DC
Contact Resistance:	≤ 5mΩ
Test Voltage::	6 KV / 1 min (Connector) 8 KV / 1 min (Box)
Certification:	UL 1703 / TÜV DIN V VDE 0126 (Under preparation - Ready Feb/March 2011)

Cable:

IEC 60228 class 5, Flame Retardant HAL-Free
 Certified TÜV Rheinland 04/2008, 2Pfg1169/08/2007 PV1-F
 UL 4703 03/2006/P70V Wire UL 854 USE-2 07/2008
 NEC NFPA 70 690.31A



Assembly Type Connector for Panel Mount



SPC-01RMFS-LC7001

Male Panel Connector:

Part No:

SPC-01RMFS-LC7001

2620-0001-01



SPC-01RFMS-LC7001

Female Panel Connector:

Part No:

SPC-01RFMS-LC7001

2620-0001-02

Assembly Type Connector for Cable Mount



SPC-01BMFA-LL7001

Male Cable Connector:

Part No:

SPC-01BMFA-LL7001

2620-0004-01



SPC-01BFMA-LL7001

Female Cable Connector:

Part No:

SPC-01BFMA-LL7001

2620-0006-01

Assembly Type Connector for Cable Mount



SL-000000-HHB-YL001

2 Male to 1 Female Y-Splitter:

Part No:

SL-000000-HHB-YL001

2620-0010-01



SL-000000-BBH-YL001

Female Cable Connector:

Part No:

SL-000000-BBH-YL001

2620-0010-02

SOLAR / PHOTOVOLTAIC CONNECTORS

Junction Boxes, Including Connectors

	SBOX-SJA20-001
	SBOX-SJB20-001

Box, Type A - 6 Cord:	Part No:
SBOX-SJA20-001	2620-0009-01

Box, Type B - 2 Cord:	Part No:
SBOX-SJB20-001	2620-0009-02

21

Junction Boxes, Including Cable + Glands

	SBOX-SJA22-BXX
	SBOX-SJB22-BXX

Box, Type A - 6 Cord:	Part No:
SBOX-SJA22-B05 Cable length: 0,5m	2620-0009-13
SBOX-SJA22-B10 Cable length: 1,0m	2620-0009-15
SBOX-SJA22-B20 Cable length: 2,0m	2620-0009-17

Box, Type B - 2 Cord:	Part No:
SBOX-SJB22-B05 Cable length: 0,5m	2620-0009-14
SBOX-SJB22-B10 Cable length: 1,0m	2620-0009-16
SBOX-SJB22-B20 Cable length: 2,0m	2620-0009-18

Accessories

	Male Connector, For Junction Box SPC-01DMFP-LC7001
	Female Connector, For Junction Box SPC-01DFMP-LC7001
	Assembly Bracket For Junction Box ZSE00102450
	Male Connector CAP CAP-DSOMMLC1
	Female Connector CAP CAP-DSOMFLC1

Male Box Connector:	Part No:
SPC-01DMFP-LC7001	2620-0002-01

Female Box Connector:	Part No:
SPC-01DFMP-LC7001	2620-0002-02

Assembly Bracket:	Part No:
ZSE00102450	2620-0009-10

Male Connector Cap:	Part No:
CAP-DSOMMLC1	2620-0008-01

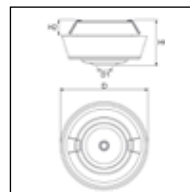
Female Connector Cap:	Part No:
CAP-DSOMFLC1	2620-0008-02

CABLE & PIPE ENTRY PRODUCT SERIES

KLIKSEAL®

Material & Technical Specifications:

Material:	TPE Polyamide 66 - HAL Free UL Approved Material
Waterproof:	IP65 / IP67
Temperature Range:	-20°C to +125°C
Test Standard:	EN60529: 1991+A1 EN50262: 1998 EMKO-TUI (03-SEC) FI001/84 606620
Semko Report:	



KLIKSEAL®

E-number	Size	IP67 and Cable Anchorage Type A* for Cable Ø mm	IP65 for Cable Ø mm	A mm	B for IP67 / 65 mm	H mm	H2 mm	D1 mm	D*** mm	Pack pcs
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☒ RAL 7035 - Light Grey

14 758 03	M20	7 - 11	4 - 11	20,5	2 - 5	17 - 20	5,5	4,0	29,3 - 34,5	50
14 758 04	M25	7 - 13**	4 - 13	25,5	2 - 5	17 - 20	5,7	5,0	34,3 - 40,0	50

☒ RAL 9005 - Black

14 758 13	M20	7 - 11	4 - 11	20,5	2 - 5	17 - 20	5,5	4,0	29,3 - 34,5	50
14 758 14	M25	7 - 13**	4 - 13	25,5	2 - 5	17 - 20	5,7	5,0	34,3 - 40,0	50

☐ RAL 9010 - White

14 758 23	M20	7 - 11	4 - 11	20,5	2 - 5	17 - 20	5,5	4,0	29,3 - 34,5	50
14 758 24	M25	7 - 13**	4 - 13	25,5	2 - 5	17 - 20	5,7	5,0	34,3 - 40,0	50

KLIKSEAL® - For Thin Materials:

E-number	Size	IP67 and Cable Anchorage Type A* for Cable Ø mm	IP65 for Cable Ø mm	A mm	B for IP67 / 65 mm	H mm	H2 mm	D1 mm	D*** mm	Pack pcs
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☒ RAL 7035 - Light Grey

14 758 07	M20	7 - 11	4 - 11	20,5	0,7 - 3	17 - 20	5,5	4,0	34,2 - 37,2	50
14 758 08	M25	7 - 13**	4 - 13	25,5	0,7 - 3	17 - 20	5,7	5,0	39,2 - 42,2	50

☒ RAL 9005 - Black

14 758 17	M20	7 - 11	4 - 11	20,5	0,7 - 3	17 - 20	5,5	4,0	34,2 - 37,2	50
14 758 18	M25	7 - 13**	4 - 13	25,5	0,7 - 3	17 - 20	5,7	5,0	39,2 - 42,2	50

☐ RAL 9010 - White

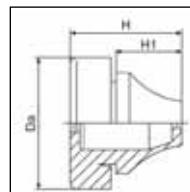
14 758 27	M20	7 - 11	4 - 11	20,5	0,7 - 3	17 - 20	5,5	4,0	34,2 - 37,2	50
14 758 28	M25	7 - 13**	4 - 13	25,5	0,7 - 3	17 - 20	5,7	5,0	39,2 - 42,2	50

CABLE & PIPE ENTRY PRODUCT SERIES

RUTASEAL®

Material & Technical Specifications:

Material:	EPDM - HAL Free
Waterproof:	Resistant to Chemicals & Weatherproof
Temperature Range:	IP67 according to EN60529
Test Standard:	-40°C to +110°C
Semko Report:	SEMKO 44:1984
	300965



Features:

- Suitable for holes of 1-4mm thickness.
- Quick and simple assembly without the use of tools.

RUTASEAL® EPDM Metric

E-number	Size	For Cable / Pipe Ø mm	A mm	B mm	Da mm	H mm	H1 mm	Pack pcs
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RAL 7001 - Grey

14 582 33	M12	4 - 7	12,5	0,5 - 2	20	12,8	5,6	50
14 582 34	M16	5 - 9	16,5	1 - 4	21	17,7	11	50
14 582 35	M20	8 - 13	20,5	1 - 4	25,5	20	13,4	50
14 582 36	M25	11 - 17	25,5	1 - 4	30,5	21,3	15,3	50
14 582 37	M32	15 - 20	32,5	1 - 4	38,5	24,6	18,6	25
14 582 38	M40	19 - 28	40,5	1 - 4	48,5	29,5	21,7	25
14 582 39	M50	27 - 35	50,5	1 - 4	60,5	34,8	25	10

RAL 9005 - Black

14 582 93	M12	4 - 7	12,5	0,5 - 2	20	12,8	5,6	50
14 582 94	M16	5 - 9	16,5	1 - 4	21	17,7	11	50
14 582 95	M20	8 - 13	20,5	1 - 4	25,5	20	13,4	50
14 582 96	M25	11 - 17	25,5	1 - 4	30,5	21,3	15,3	50
14 582 97	M32	15 - 20	32,5	1 - 4	38,5	24,6	18,6	25
14 582 98	M40	19 - 28	40,5	1 - 4	48,5	29,5	21,7	25
14 582 99	M50	27 - 35	50,5	1 - 4	60,5	34,8	25	10

RAL 7035 - Light Grey

14 583 03	M12	4 - 7	12,5	0,5 - 2	20	12,8	5,6	50
14 583 04	M16	5 - 9	16,5	1 - 4	21	17,7	11	50
14 583 05	M20	8 - 13	20,5	1 - 4	25,5	20	13,4	50
14 583 06	M25	11 - 17	25,5	1 - 4	30,5	21,3	15,3	50
14 583 07	M32	15 - 20	32,5	1 - 4	38,5	24,6	18,6	25
14 583 08	M40	19 - 28	40,5	1 - 4	48,5	29,5	21,7	25
14 583 09	M50	27 - 35	50,5	1 - 4	60,5	34,8	25	10

RUTASEAL LIGHT® EPDM Metric

E-number	Size	For Cable / Pipe Ø mm	A mm	B mm	Da mm	H mm	H1 mm	Pack pcs
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RAL 7001 - Grey

14 583 26	M16	5 - 9	16,5	1 - 4	21	17,5	11	50
14 583 27	M20	8 - 12	20,5	1 - 4	25,5	19,6	13,4	50
14 583 28	M25	11 - 16	25,5	1 - 4	30,5	20,9	15,3	50

RAL 9005 - Black

14 583 30	M16	5 - 9	16,5	1 - 4	21	17,5	11	50
14 583 31	M20	8 - 12	20,5	1 - 4	25,5	19,6	13,4	50
14 583 32	M25	11 - 16	25,5	1 - 4	30,5	20,9	15,3	50

RAL 7035 - Light Grey

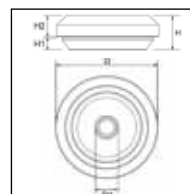
14 583 34	M16	5 - 9	16,5	1 - 4	21	17,5	11	50
14 583 35	M20	8 - 12	20,5	1 - 4	25,5	19,6	13,4	50
14 583 36	M25	11 - 16	25,5	1 - 4	30,5	20,9	15,3	50

CABLE & PIPE ENTRY PRODUCT SERIES

TSS - Grommet Series

Material & Technical Specifications:

Material:	TPE - HAL Free UL Approved Material
Waterproof:	IP67
Temperature Range:	-50°C to +125°C
Test Standard:	EN60529: 1991+A1 EMKO-TUI (03-SEC) FI001/84
Semko Report:	M16 - 708555-1 M20 - 708555-2 M25 - 708555-3 M32 - 708555-4



TSS

E-number	Size	For Cable / Pipe Ø mm	A mm	B mm	D* mm	D1 mm	H mm	H1 mm	H2* mm	Pack pcs
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RAL 7035 - Light Grey

14 757 11	M16	5 - 10	16,5	0,5 - 3	23,5	4	11	4	6,75	50
14 757 12	M20	6 - 13	20,5	0,5 - 3	27,5	5	11	4	6,75	50
14 757 13	M25	8 - 17	25,5	0,5 - 3,5	32,5	7	11	4	6,75	50
14 757 14	M32	12 - 24	32,5	0,5 - 4,5	39,5	11	11	4	6,75	25

RAL 7035 - Black

14 757 16	M16	5 - 10	16,5	0,5 - 3	23,5	4	11	4	6,75	50
14 757 17	M20	6 - 13	20,5	0,5 - 3	27,5	5	11	4	6,75	50
14 757 18	M25	8 - 17	25,5	0,5 - 3,5	32,5	7	11	4	6,75	50
14 757 19	M32	12 - 24	32,5	0,5 - 4,5	39,5	11	11	4	6,75	25

RAL 9010 - White

14 757 21	M16	5 - 10	16,5	0,5 - 3	23,5	4	11	4	6,75	50
14 757 22	M20	6 - 13	20,5	0,5 - 3	27,5	5	11	4	6,75	50
14 757 23	M25	8 - 17	25,5	0,5 - 3,5	32,5	7	11	4	6,75	50
14 757 24	M32	12 - 24	32,5	0,5 - 4,5	39,5	11	11	4	6,75	25

AVAILABLE ON REQUEST:

Cable Glands - Metric IP67



Cable Glands and accessories are available in:

- UL 94 V-0 Class Plastic Material
- Brass
- Stainless Steel
- EMC Shielded version

All common accessories are available, such as Reducing sleeves, Enlargement sleeves, Adaptors, Screw Plugs, Sealing Rings, O-Rings, Inserts a.o.

Please contact us for more information.



CABLE & PIPE ENTRY PRODUCT SERIES

Design-A-Flange



Material & Technical Specifications:

Material:	Fiberglass re-inforced Polypropylene and TPE - Halogen Free UL Approved Materials
Waterproof:	IP65
Temperature Range:	-20°C to +125°C
Test Standard:	EN60529: 1991+A1 EN60670-1: 2005
Semko Report:	816003
Colour:	RAL 7035 - Light Grey RAL 9005 - Black - Only on request



22

Prefabricated Flanges *RAL 7035 - Light Grey*

FL21
26 654 01



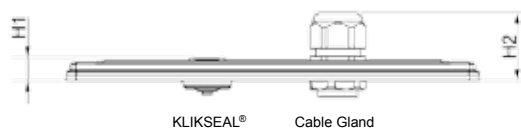
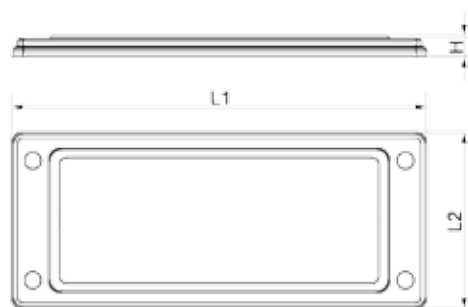
FL21
26 654 02



FL21
26 654 03



FL13
26 654 05



Size:	L1 mm	L2 mm	H mm	H1 mm	H2 mm
FL 13	134	52	6,5	12	35*
FL 21	214	90	9	12	35*

* Approximate Height after mounting

How To Order Frames & Inserts:

RAL 7035 - Light Grey



Inserts 68x68 for FL21:



2x M25 (8-17mm)
2x M16 (5-10mm)

26 654 06



KO M32 M40 M50

26 654 07



9x 7-14mm

26 654 08



2x 20-30mm
2x 10-20mm

26 654 09



30-50mm

26 654 10

Inserts 68x34 for FL21:



2x 8-17mm

26 654 11



2x M20 (6-13mm)

26 654 12



10x 4-10mm

26 654 13



Inserts 34x68 for FL13:



2x 8-17mm

26 654 14



2x M20 (6-13mm)

26 654 15



10x 4-10mm

26 654 16

Inserts 34x34 for FL13:



1x M20 (6-13mm)

26 654 17



CABLE & PIPE ENTRY PRODUCT SERIES

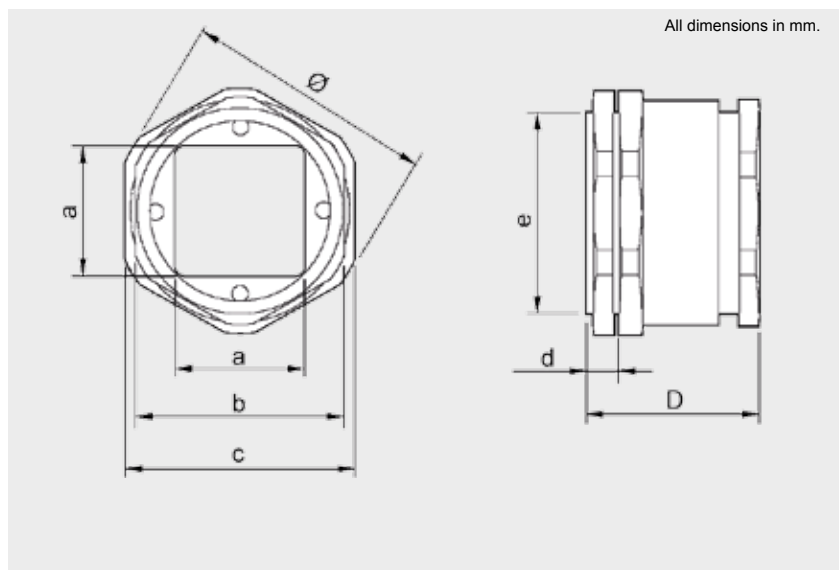
RG M63 Series



The Roxtec RG M63 is a compact kit sealing solution for cabinets. The three different standardised kit configurations make it possible to seal one to nine pre terminated cables, ranging from Ø 3.5mm to Ø 32.5mm. The Roxtec RG M63 housing is made of nickel plated brass. The sealings are UL/NEMA 4,4X,12,13 and IP 67 rated.

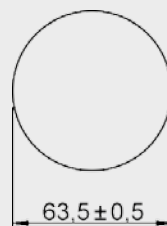


Kit:	Aperture dimension Ø mm / Depth:	Number of Cables or Pipes accommodated per Kit:			Part Number:
		3,5 - 10,5mm	3,5 - 16,5mm	9,5 - 32,5mm	
RG M63/1	74 / 51			1	3101-0101-01
RG M63/4	74 / 51		4		3101-0101-02
RG M63/9	74 / 51	9			3101-0101-03



Pos:	
a	40
b	SW 64
c	SW 68
d	10
e	M63 x 1,5
D	51
Ø	74

Recommended Panel Cut-Out:



CABLE & PIPE ENTRY PRODUCT SERIES

C R S T Series

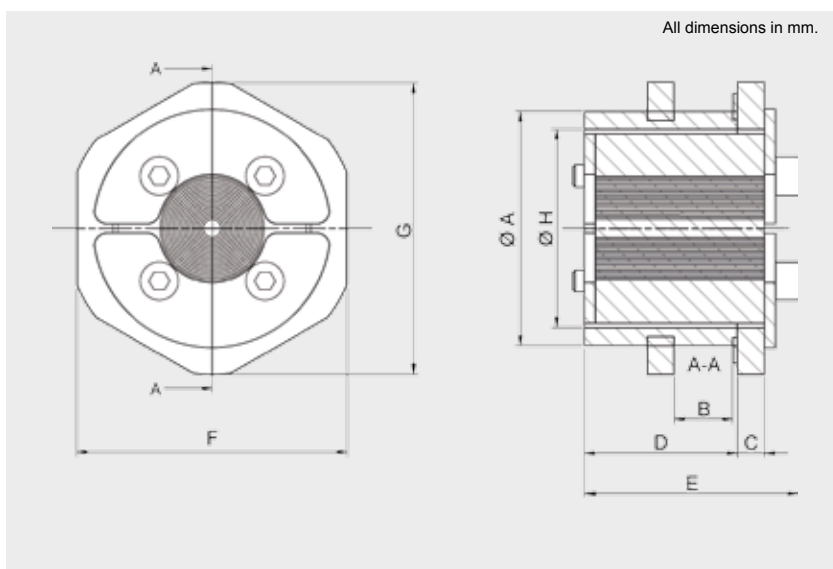


The Roxtec C R S T sealing solution is available in four different sizes, which seal single cables and pipes from Ø3.6mm to Ø30mm. The C R S T kit is a complete sealing solution, which consists of a threaded sleeve with gasket, a counter nut and a round C R S Seal for a single cable or pipe. The Roxtec C R S T kit sealing solution makes installation of pre terminated cables or pipes easy, such as in cabinet walls and other types of similar structures.

22



Kit:	Aperture dimension Ø A:	For Cable / Pipe Ø:	Ext. Dim. Sleeve: (Ø x Depth)	Part Number:
C R S T 25	32mm	3,6 - 12mm	39 x 20mm	3101-0103-01
C R S T 31	40mm	4 - 17mm	50 x 20mm	3101-0103-02
C R S T 43	50mm	4 - 23mm	65 x 40mm	3101-0103-03
C R S T 50	63mm	8 - 30mm	78 x 40mm	3101-0103-04



Pos:	C R S T 25	C R S T 31	C R S T 43	C R S T 50
Ø A	32	40	50	63
B	1-10	1-8	1-28	1-26
C	4	5	5	6
D	16	15	35	34
E	25	25	48	48
F	36	46	60	70
G	39	50	65	78
Ø H	25	31	43	50

CABLE & PIPE ENTRY PRODUCT SERIES

CF8 & CF32 Frames



The CF8 & CF32 are cast aluminium frames suitable for compact installations in cabinets. The compression is integrated in the frame. CF8 can accommodate up to 15 cables and the CF32 accommodates up to 60 cables. Both frames accommodate a fast installation and the possibility to install pre-assembled cables.



CF 8/5



CF 8/8



CF 8/9



CF 32/20



CF 32/32

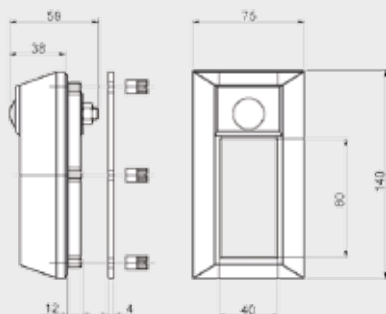


CF 32/41

Kit:	Width x Height:	Number of Cables or Pipes accommodated per Kit:				Part Number:
		3,5 - 10,5mm	3,5 - 16,5mm	10 - 25MM	9,5 - 32,5mm	
CF 8/5	75 x 140		4		1	3102-0101-01
CF 8/8	75 x 140		8			3102-0101-02
CF 8/9	75 x 140	6	2	1		3102-0101-03
CF 32/20	130 x 230		16		4	3102-0201-01
CF 32/32	130 x 230		32			3102-0201-02
CF 32/41	130 x 230	24	16		1	3102-0201-03

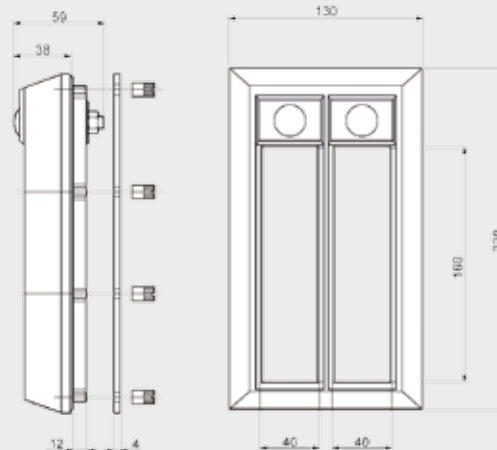
CF 8

All dimensions in mm.



CF 32

All dimensions in mm.



CABLE & PIPE ENTRY PRODUCT SERIES

CF16 Frames



The CF 16 frame has a very low profile and is suitable for enclosures where many cables need to be routed in areas with limited space. The CF 16 frame has integrated compression. Other kit configurations are available upon request.



CF 16/4



CF 16/10

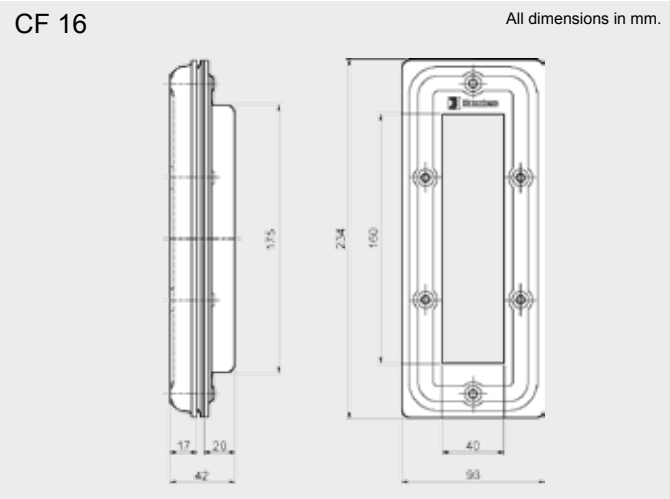


CF 16/16



CF 16/19

Kit:	Width x Height:	Number of Cables or Pipes accomodated per Kit:			Part Number:
		3,5 - 10,5mm	3,5 - 16,5mm	9,5 - 32,5mm	
CF 16/4	93 x 234mm			4	3102-0301-01
CF 16/10	93 x 234mm		8	2	3102-0301-02
CF 16/16	93 x 234mm		16		3102-0301-03
CF 16/19	93 x 234mm	12	6	1	3102-0301-04



CABLE & PIPE ENTRY PRODUCT SERIES

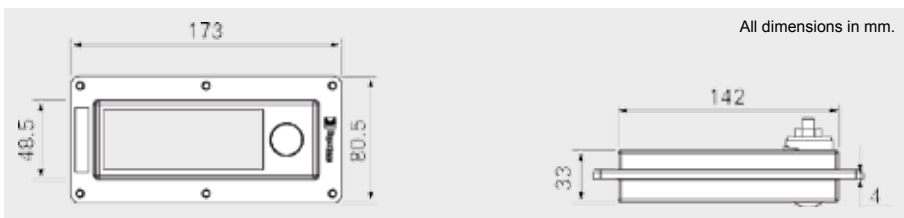
ComSeal Series



The Roxtec ComSeal is a solution for fast and simple sealing of openings with cables in cabinets. The frames are available in three basic sizes. The Roxtec ComSeal frames are supplied as ready-made kits and can be attached either to the inside or the outside of a cabinet.



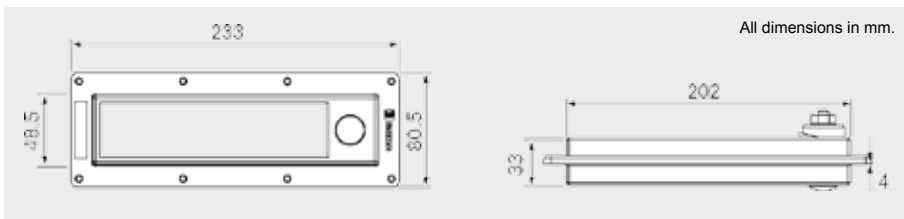
ComSeal 10



Kit:	Number of Cables or Pipes per Kit:		Holecut Width x Length (mm)	Part Number:
	3,5 - 16,5mm	9,5 - 32,5mm		
ComSeal 10/4	2	2	56 x 149	3107-0001-01
ComSeal 10/7	6	1	56 x 149	3107-0001-02
ComSeal 10/10	10		56 x 149	3107-0001-03



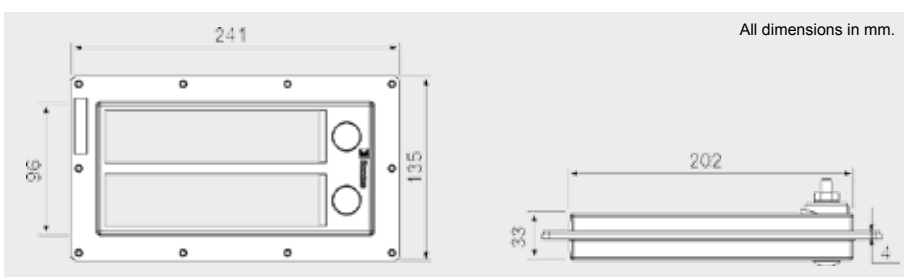
ComSeal 16



Kit:	Number of Cables or Pipes per Kit:		Holecut Width x Length (mm)	Part Number:
	3,5 - 16,5mm	9,5 - 32,5mm		
ComSeal 16/4		4	56 x 209	3107-0002-01
ComSeal 16/7	4	3	56 x 209	3107-0002-02
ComSeal 16/10	8	2	56 x 209	3107-0002-03
ComSeal 16/16	16		56 x 209	3107-0002-04



ComSeal 32



Kit:	Number of Cables or Pipes per Kit:		Holecut Width x Length (mm)	Part Number:
	3,5 - 16,5mm	9,5 - 32,5mm		
ComSeal 32/8		8	103 x 209	3107-0003-01
ComSeal 32/14	8	6	103 x 209	3107-0003-02
ComSeal 32/20	16	4	103 x 209	3107-0003-03
ComSeal 32/32	32		103 x 209	3107-0003-04

CABLE & PIPE ENTRY PRODUCT SERIES

EzEntry Series



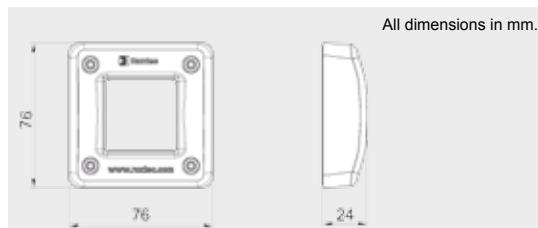
The EzEntry™ seal is designed to simplify cable sealing in the equipment manufacturing industry.

The solution enables routing and sealing multiple pre-terminated cables of different sizes - in one single frame opening.

The seal has a light weight composite frame with integrated gasket. It's a single-side installation with an integrated compression.



EzEntry 4 Mini



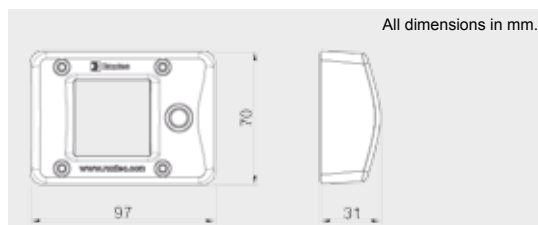
All dimensions in mm.

Number of Cables or Pipes accommodated per Kit:			
Kit:	3,5-10,5mm	3,5-16,5mm	9,5-32,5mm
4 Mini/4		4	
4 Mini/9	9		

Kit:	Part Number:
4 Mini /4	3108-0001-01
4 Mini /9	3108-0001-02



EzEntry 4



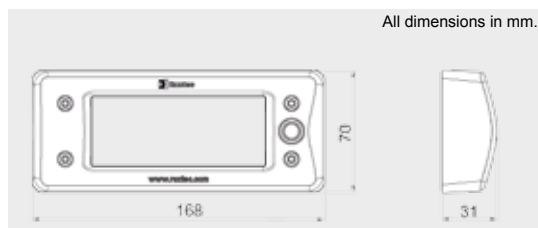
All dimensions in mm.

Number of Cables or Pipes accommodated per Kit:			
Kit:	3,5-10,5mm	3,5-16,5mm	9,5-32,5mm
4/4		4	

Kit:	Part Number:
4/4	3108-0002-01



EzEntry 10



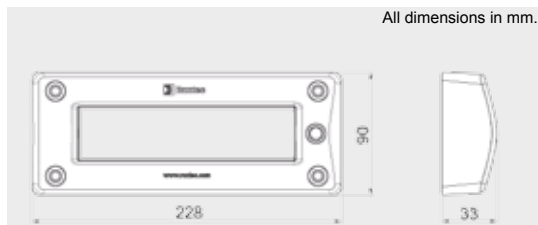
All dimensions in mm.

Number of Cables or Pipes accommodated per Kit:			
Kit:	3,5-10,5mm	3,5-16,5mm	9,5-32,5mm
10/4		2	2
10/7		6	1
10/10		10	

Kit:	Part Number:
10/4	3108-0003-01
10/7	3108-0003-02
10/10	3108-0003-03



EzEntry 16



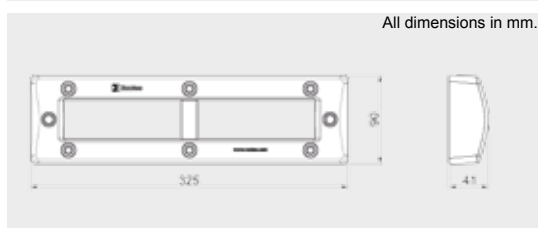
All dimensions in mm.

Number of Cables or Pipes accommodated per Kit:			
Kit:	3,5-10,5mm	3,5-16,5mm	9,5-32,5mm
16/4			4
16/10		8	2
16/16		16	

Kit:	Part Number:
16/4	3108-0004-01
16/10	3108-0004-02
16/16	3108-0004-03



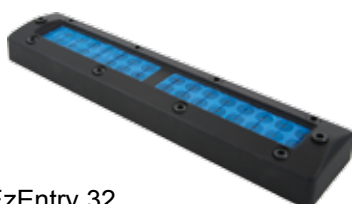
EzEntry 24



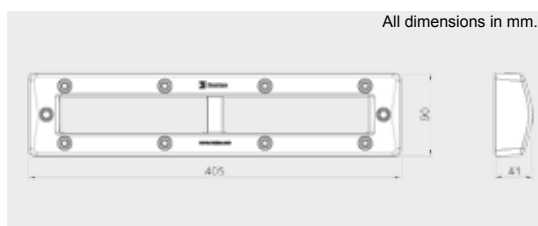
All dimensions in mm.

Number of Cables or Pipes accommodated per Kit:			
Kit:	3,5-10,5mm	3,5-16,5mm	9,5-32,5mm
24/6			6
24/15		12	3
24/24		24	

Kit:	Part Number:
24/6	3108-0005-01
24/15	3108-0005-02
24/24	3108-0005-03



EzEntry 32



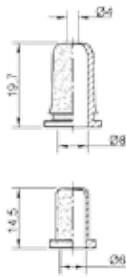
All dimensions in mm.

Number of Cables or Pipes accommodated per Kit:			
Kit:	3,5-10,5mm	3,5-16,5mm	9,5-32,5mm
32/8			8
32/20		16	4
32/32		32	

Kit:	Part Number:
32/8	3108-0006-01
32/20	3108-0006-02
32/32	3108-0006-03

ACCESSORIES

Rubber Grommet



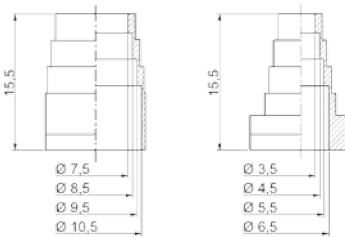
Large Grommet - suits all Plastic and also Metalized Plastic hoods in our MHDPPK and MHDSSK-Series, except MHDPPK09-SLIM.

Order Code:	Name:
6844-0103-01	Rubber Grommet, Large

Small Grommet - suit only MHDPPK09-SLIM Hoods.

Order Code:	Name:
6844-0102-01	Rubber Grommet, Small

Plastic Grommets

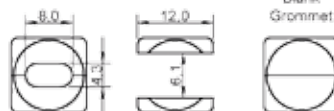


Plastic Grommet - suits all Plastic hoods in our MHDPPK and MHDSSK-Series, except MHDPPK09-SLIM.

The grommets are delivered in pair of two sizes, and they suit cable O.D:s from 3,5 mm up to 10,5 mm. Each "step" can be cut to adjust diameter. Use our Cutting Tool – page 107 – for best result.

Order Code:	Name:
6822-0121-06	Plastic Grommet

Flat Cable Grommets

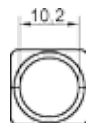


Flat Grommet - suits all hoods with a two-piece grommet set. This Grommet is a replacement set for use with Flat cables.

With this set you also get a Blank Grommet, for use in "Dummies" to blank off the cable entry.

Order Code:	Name:
6522-0121-03	DTZK-D8

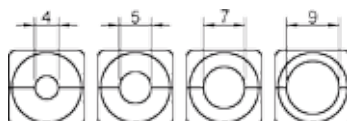
10,2 mm Grommet Set



10,2mm Grommet - suits all hoods equipped with a two-piece grommet set. This grommet is a replacement set for use with Large O.D. cables. (10mm+)

Order Code:	Name:
6522-0121-11	D45ZK-D1-10,2

Metalized Grommets



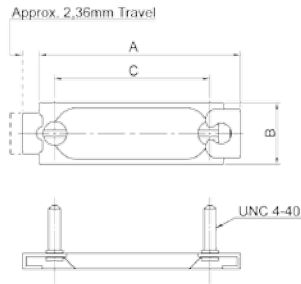
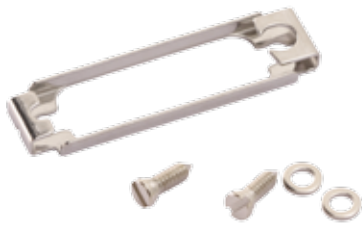
Metalized (RAH) Grommets - suits all hoods equipped with a two-piece RA grommet set.

This grommet is a replacement set for standard RA grommet set delivered with Rapid Assembly Hoods.

Order Code:	Name:
6522-0122-01	D45ZK-D1-MET

ACCESSORIES

Slide Locks - Standard



Slide Locks:

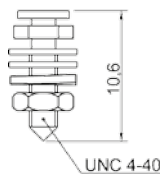
9-15-25 way

Other sizes on request

Size	A	B	C
9-way	35,4	12,7	25,0
15-way	43,7	12,7	33,3
25-way	57,4	12,7	47,1

Order Code:	Name:
6250-0113-01	Slide Lock, Size 9
6250-0113-02	Slide Lock, Size 15
6250-0113-03	Slide Lock, Size 25

Slide Lock Post - Standard



Slide Lock Post:

Suits above Standard Slide Lock System.

Order Code:	Name:
6250-0114-01	STUD-8

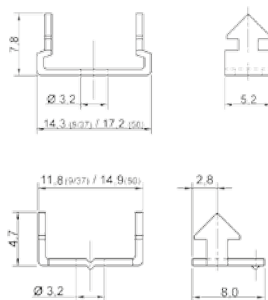
Slide Locks - Special Type for MHED-Series



Slide Lock Kits - for MHED Series are delivered as spare parts - including the Spring Lever. The Slide Lock Kits are normally supplied together in the MHED standard kits - found on page 14.

Order Code:	Name:
2802-0002-01	ED-09SL
2802-0002-02	ED-15SL
2802-0002-03	ED-25SL
2802-0002-04	ED-37SL
2802-0002-05	ED-50SL

Mounting Flanges - Special Type for MHED-Series



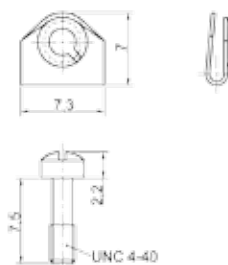
Under Flange Mounting Brackets

Order Code:	Name:
2802-0001-01	ED-9/37-LUF
2802-0001-02	ED-50-LUF

Over Flange Mounting Brackets

Order Code:	Name:
2802-0001-03	ED-9/37-ROF
2802-0001-04	ED-50-ROF

Retainer Clips



Retainer Clips:

Normally supplied kitted with screws (2+2pcs)
Can be supplied without screws in BULK package.

Order Code:	Name:
2170-0100-01	Retainer Clips, Kit incl. Screws
2750-0100-02	Retainer Clips, w/o Screws - BULK

ACCESSORIES

Locking Screws with Plastic Knobs



- Threads:**
- UNC 4-40
 - M2.5
 - M3.0
 - M2.6 on request

Pic.	Order Code:	Name:	Thread	/ Length
1	6718-0101-05	Jackscrew	UNC 4-40	/ 56mm
2	6718-0101-01	Jackscrew	UNC 4-40	/ 51mm
2	6718-0101-02	Jackscrew	M 2.5	/ 51mm
2	6718-0101-03	Jackscrew	M 3	/ 51mm
3	6718-0101-04	Jackscrew	UNC 4-40	/ 41mm
4	6718-0102-01	Jackscrew	UNC 4-40	/ 51mm
4	6718-0102-02	Jackscrew	M 2.5	/ 51mm
4	6718-0102-03	Jackscrew	M 3	/ 51mm
5	6718-0102-04	Jackscrew	UNC 4-40	/ 41mm

Standard Thread Length is 4,5mm.
Other colours on knobs are available upon request.

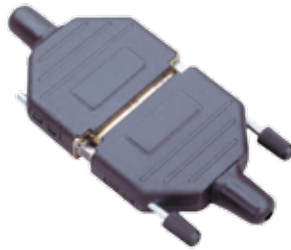
Locking Screws, Full Metal



- Threads:**
- UNC 4-40
 - M2.5, M2.6 and M3 on request

Pic.	Order Code:	Name:	Thread	/ Length
1	6826-0141-02	Blank JS	UNC 4-40	/ 47mm
2	6826-0141-01	Blank JS	UNC 4-40	/ 31,5mm
3	6826-0142-02	Black Chr. JS	UNC 4-40	/ 47mm
4	6826-0142-03	Black Chr. JS	UNC 4-40	/ 31,5mm
5	6826-0133-01	JS-DSSK	UNC 4-40	/ 18,1mm
6	6826-0133-04	JS-DSSK	UNC 4-40	/ 12,1mm
7	6826-0133-11	JS-DSSK-BK	UNC 4-40	/ 18,1mm
8	6826-0133-14	JS-DSSK-BK	UNC 4-40	/ 12,1mm

Female Screw Kit



Female Screw Kit:

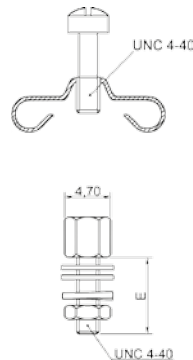
Useful when two cable connectors should be mated together.
(Hex extender + Jackscrew with slot in one part)

Kit consist of:

- 2 pcs of Slotted Jackscrew
- 2 pcs of Hex Extender
- 2 pcs of Washer

Order Code:	Name:
6250-0112-02	Female Screw Kit

Female & Male Screw Locks



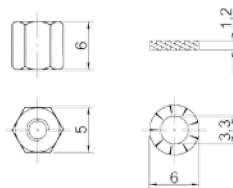
Male Screw Lock:

Order Code:	Name:
2750-0100-01	MSL

Female Screw Lock:

Order Code:	Name:	(E)
2751-0111-01	DJF-5	5mm
2751-0111-02	DJF-7	7mm
2751-0111-03	DJF-8	8mm
2751-0111-04	DJF-10	10mm
2751-0111-05	DJF-14	14mm

Hex Extenders



HEX-Extender:

Thread: UNC 4-40
Length: 6 mm

Order Code:	Name:	Note:
6250-0112-01	CA0270	With Washer
6857-0104-01	HEX-Extender	Without Washer

ACCESSORIES

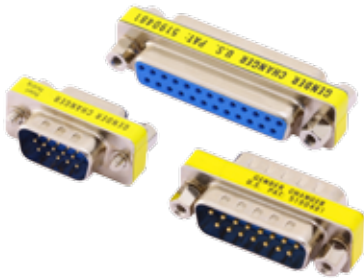
BNC Strain Relief Boots



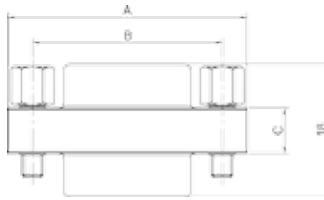
- Available for RG58, RG59 and RG62 BNC Connectors
- Available in Blue, Green, Red, Yellow, Black & Light Grey
- Other Colours on request

Order Code:	Name:
6855-0101-x1	RG-yySRB-B
6855-0101-x2	RG-yySRB-G
6855-0101-x3	RG-yySRB-R
6855-0101-x4	RG-yySRB-Y
6855-0101-x5	RG-yySRB-BK
6855-0101-x6	RG-yySRB-LG
RG58: x = 0	yy = 58
RG59/62: x = 1	yy = 59/62

Miniature Gender Changers



Also available in Filter Connectors



Size	Dim A	Dim B	Dim C
9-way	31,2	25,0	6,0
15-way	39,5	33,3	6,0
25-way	53,4	47,1	6,0
HD15-way	31,2	25,0	6,0

Order Code:	Name:	Style:
2401-0100-01	DMGC-0909-MM	Male-Male
2401-0100-02	DMGC-1515-MM	Male-Male
2401-0100-03	DMGC-2525-MM	Male-Male
2401-0100-11	DMGC-0909-MF	Male-Female
2401-0100-13	DMGC-2525-MF	Male-Female
2401-0100-21	DMGC-0909-FF	Female-Female
2401-0100-22	DMGC-1515-FF	Female-Female
2401-0100-23	DMGC-2525-FF	Female-Female
2401-0101-02	DMGC-HD1515-MM	HD-Male-Male
2401-0101-12	DMGC-HD1515-MF	HD-Male-Female

Dust Caps - Transparent / Unshielded



Order Code:	Name:	Male Style
2105-0100-01	DC09-P	
2105-0100-02	DC15-P	
2105-0100-03	DC25-P	
2105-0100-04	DC37-P	
Order Code:	Name:	Female Style
2105-0100-11	DC09-S	
2105-0100-12	DC15-S	
2105-0100-13	DC25-S	
2105-0100-14	DC37-S	

Dust Caps - Metalized / Shielded



Order Code:	Name:	Male Style
2105-0105-01	DC09-P-MTZ	
2105-0105-02	DC15-P-MTZ	
2105-0105-03	DC25-P-MTZ	
2105-0105-04	DC37-P-MTZ	
Order Code:	Name:	Female Style
2105-0105-11	DC09-S-MTZ	
2105-0105-12	DC15-S-MTZ	
2105-0105-13	DC25-S-MTZ	
2105-0105-14	DC37-S-MTZ	

Tooling

Crimp Tool & Crimp Dies



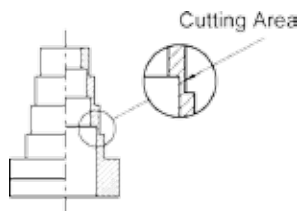
Order Code:	Name:	Description:
6852-0116-01	DTCT	Tool Frame
6852-0114-01	PRESSDIE-6.3	Die No. 6.3
6852-0114-02	PRESSDIE-5.3	Die No. 8.0
6852-0114-03	PRESSDIE-6.0	Die No. 10.0
6852-0114-04	PRESSDIE-7.0	Die No. 11.5
6852-0114-05	PRESSDIE-7.5	Die No. 12.0
6852-0114-06	PRESSDIE-8.6	Die No. 12.5
6852-0114-08	PRESSDIE-9.0	Die No. 9.0

Crimp Tool Sub-D



Order Code:	Name:	Description:
6852-0117-01	DRB-0505L	For Standard Pins
6852-0117-03	DRB-0805HD	For High-Density Pins

Cutter



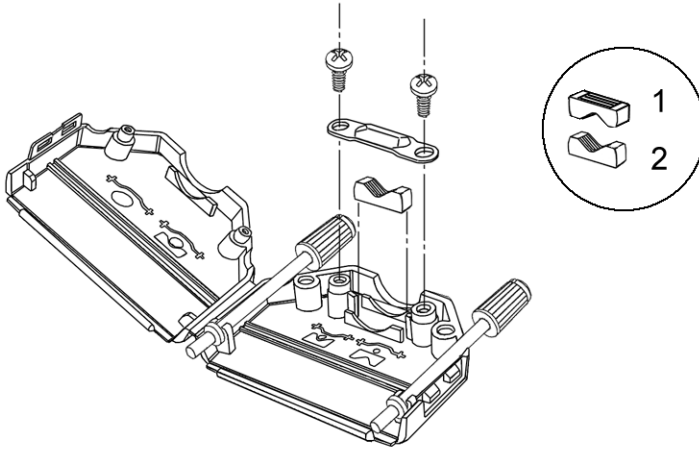
Cutter for cutting plastic and metalized plastic grommets. Recommended to achieve a smooth and burr-free cutting edge when adapting the grommet diameter to the cable.

Order Code:	Name:	Description:
6852-0131-01	Cutter	For cutting 2-piece Grommets

Assembly Instruction DPPK-SLIM Series

Schematics over the parts that is to be used in the assembly.

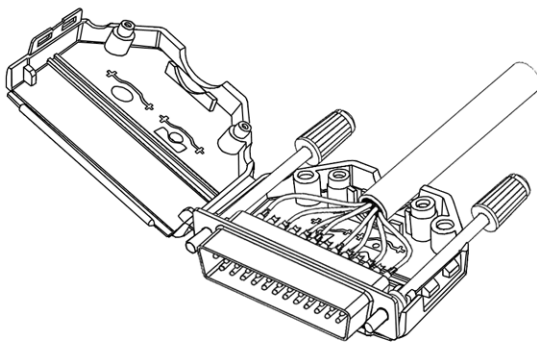
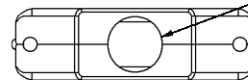
Inside the Connector Hood there is also a brief schematic describing the options.



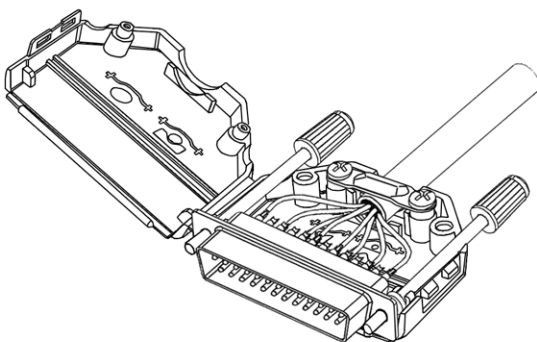
1. Please decide if option 1 or 2 suits your assembly, depending on the outer diameter of the cable.

The plastic insert can also be left out if the O.D. of the cable is large.

Maximum O.D. 12mm

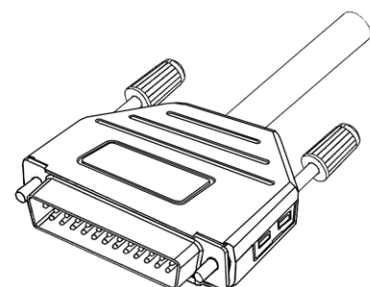


2. Place the mounted cable + connector inside the Connector Hood.



3. Mount the cable clamp and screws.
Recommended Torque is 0,25Nm

4. Close the Connector Hood, and your assembly is ready.



Assembly Instruction DTPPK / D45PPK Series

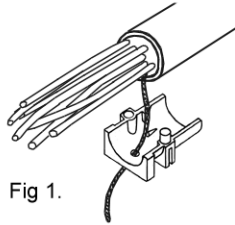


Fig 1.

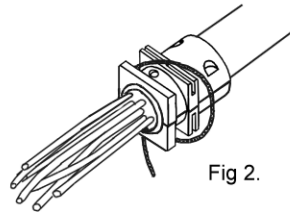
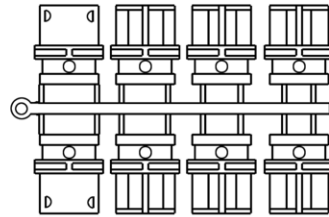


Fig 2.



Select the ferrule halves that most closely match the diameter of the cable.
(The ferrule halves do not need to match)

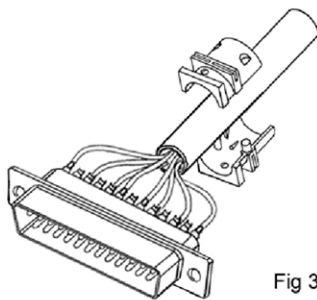


Fig 3.

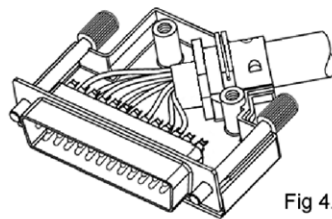
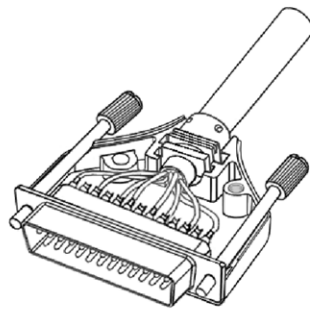


Fig 4.

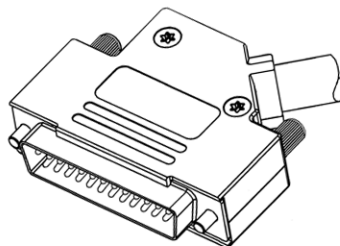
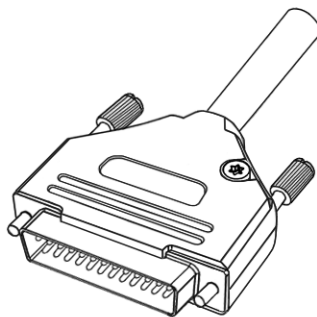
Foil Cable

Insert the wire through the hole in one of the two ferrule halves as shown in Fig 1.
Assemble the two halves around the cable and make sure that the insulation runs the full length of the ferrule, then complete as shown in Fig 2.

Loop the earth wire recess as shown, preferably in a "knot".

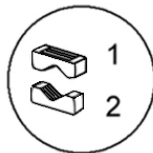
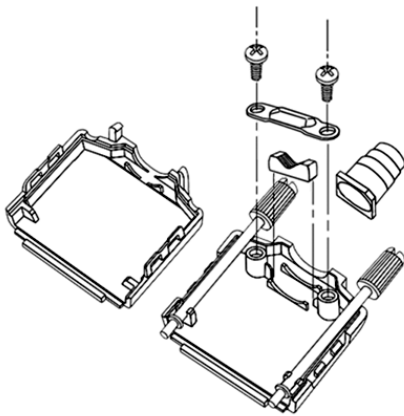
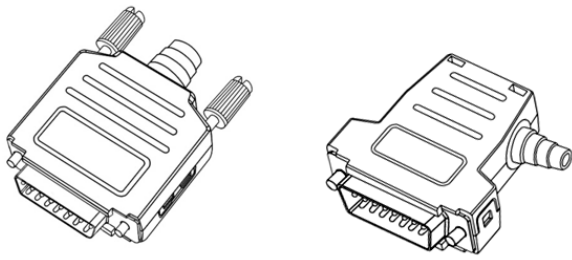
The earth wire can be insulated and extended to a contact on the connector if required.

Place the assembly into the hood half as shown in Fig 4.



Complete the assembly by putting the second hood half over the assembly, and tighten with accompanied screw mounting set.
Recommended Torque is 150 - 200 Ncm

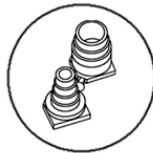
Assembly Instruction DPPK / DSSK Series



1: Preparations

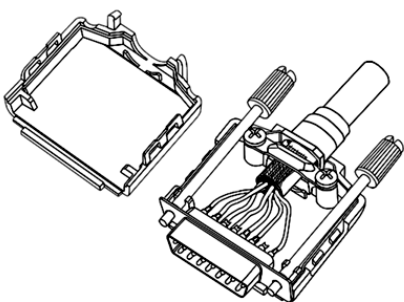
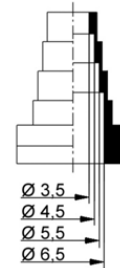
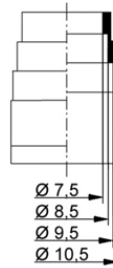
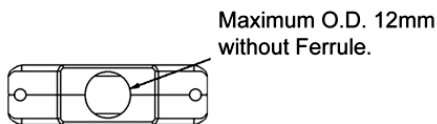
Please decide if option 1 or 2 suits your assembly, depending on the outer diameter of the cable.

The plastic Insert can also be left out if the cable O.D. is large.



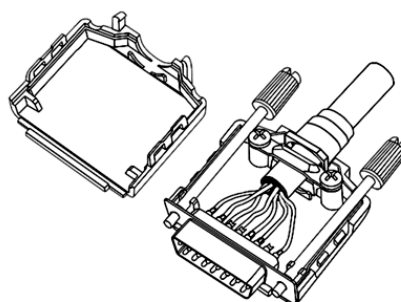
A ferrule set is bypacked, and contain 2 ferrules, with 'steps' that can be cut off to suit the cable O.D.

Please use MH Cutter for optimal result.
Part No: 6852-0131-01



2a: Shielded Hoods

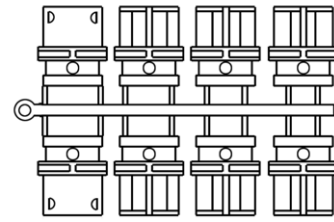
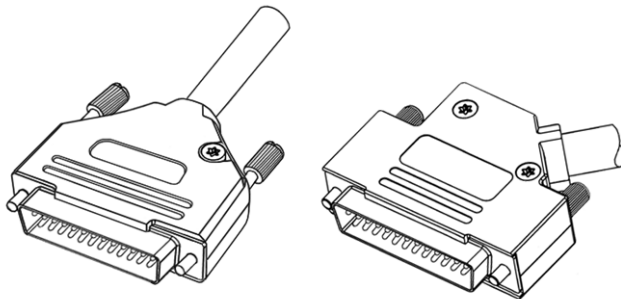
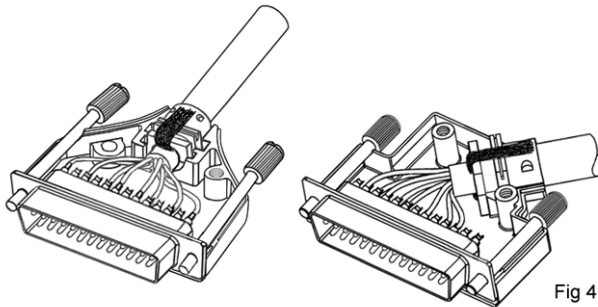
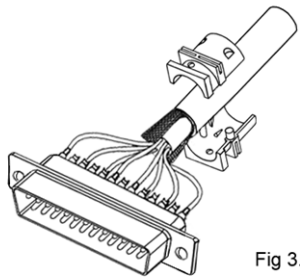
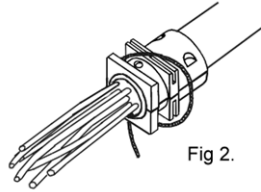
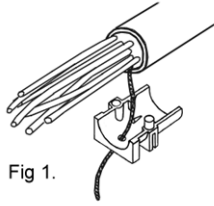
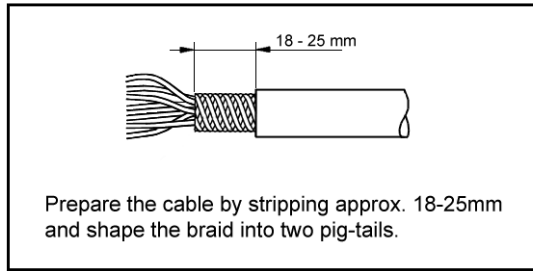
Place the mounted cable + connector inside the Connector Hood.
Pigtail the Braid and fold it back under the Cable Clamp.
Mount the cable clamp and screws.
Recommended Torque is 0,25Nm



2b: Unshielded Hoods

Place the mounted cable + connector inside the Connector Hood.
Mount the cable clamp and screws.
Recommended Torque is 0,25Nm

Assembly Instruction DTPK / D45PK Series



Select the ferrule halves that most closely match the diameter of the cable.
(The ferrule halves do not need to match)

Foil Cable

Insert the wire through the hole in one of the two ferrule halves as shown in Fig 1. Assemble the two halves around the cable and make sure that the insulation runs the full length of the ferrule, then complete as shown in Fig 2.

Loop the earth wire recess as shown, preferably in a "knot".

The earth wire can be insulated and extended to a contact on the connector if required.

Braided Cable

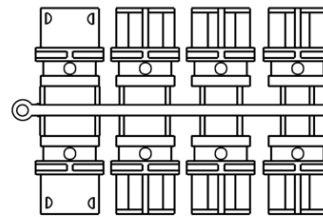
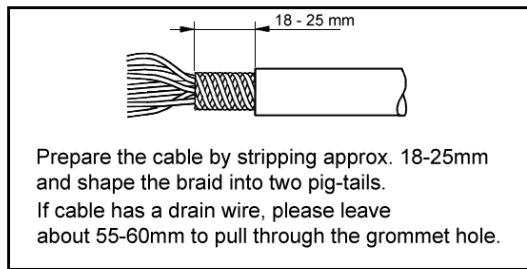
For heavily braided cables, pigtail the braid and turn it back over the ferrule as shown in Fig 3.

For light braided cables, pigtail the braid and turn it back over the ferrule in one direction only.

Place the assembly into the hood half as shown in Fig 4.

Complete the assembly by putting the second hood half over the assembly, and tighten with accompanied screw mounting set.
Recommended Torque is 150 - 200 Ncm

Assembly Instruction DTZK / D45ZK Rapid Assembly



Select the ferrule halves that most closely match the diameter of the cable.
(The ferrule halves do not need to match)

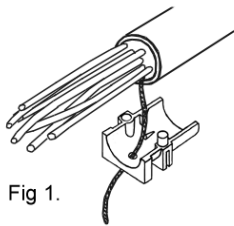


Fig 1.

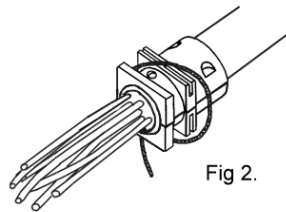


Fig 2.

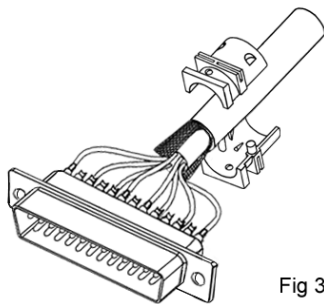


Fig 3.

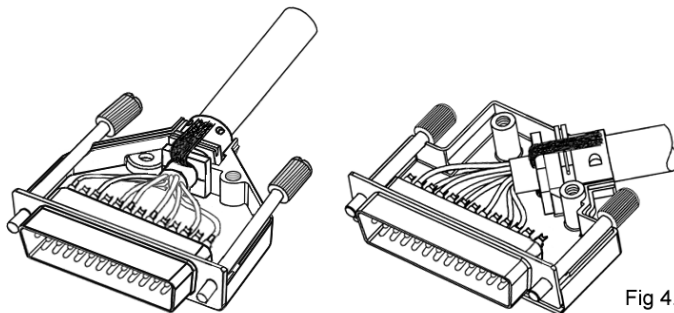
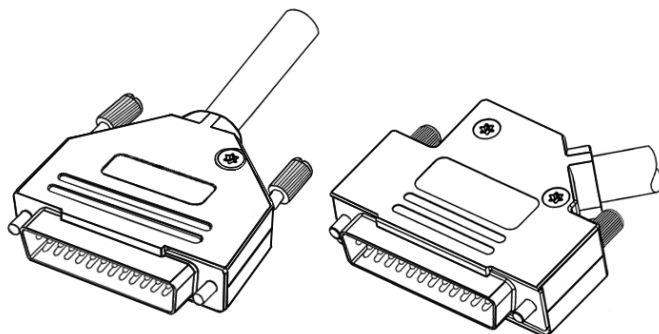


Fig 4.



Foil Cable

Insert the wire through the hole in one of the two ferrule halves as shown in Fig 1.
Assemble the two halves around the cable and make sure that the insulation runs the full length of the ferrule, then complete as shown in Fig 2.

Loop the earth wire recess as shown, preferably in a "knot".

The earth wire can be insulated and extended to a contact on the connector if required.

Braided Cable

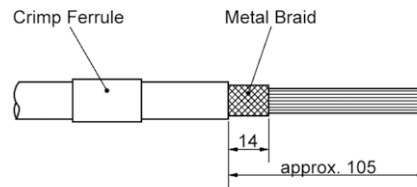
For heavily braided cables, pigtail the braid and turn it back over the ferrule as shown in Fig 3.

For light braided cables, pigtail the braid and turn it back over the ferrule in one direction only.

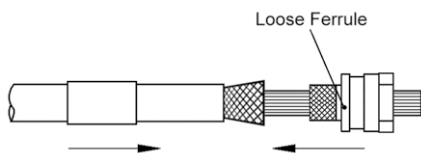
Place the assembly into the hood half as shown in Fig 4.

Complete the assembly by putting the second hood half over the assembly, and tighten with accompanied screw mounting set.
Recommended Torque is 150 - 200 Ncm

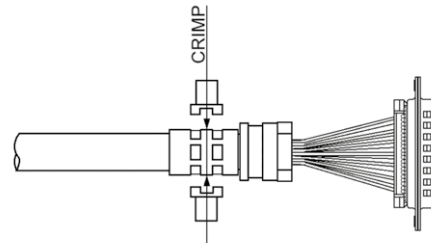
Assembly Instruction DTZK / D45ZK - CZK Series



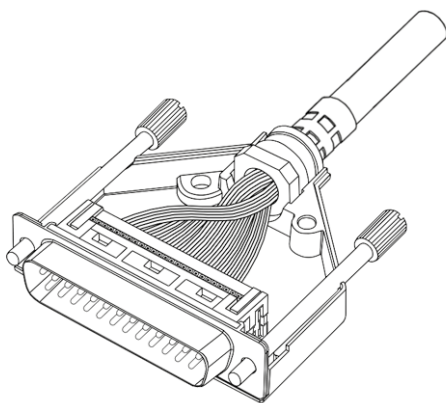
Prepare Cable as shown.
Slide Crimp Ferrule over Cable.



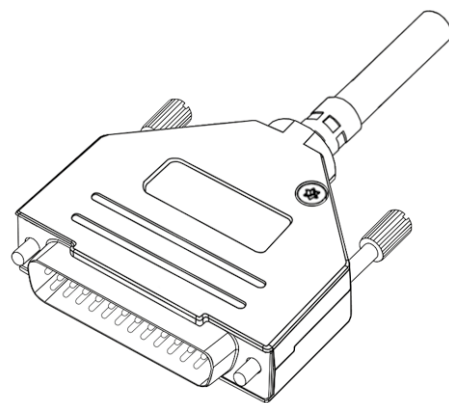
Put wires through and shape Metal Braid around Loose Ferrule.



Crimp over the loose Crimp Ferrule.
Mount the Sub-D Connector.

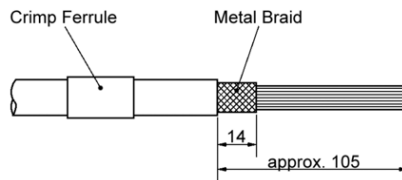


Place the assembly inside the metal cover.

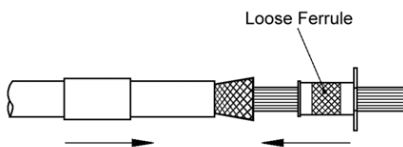


Close assembly by placing the upper Metal Part and screw together with accompanied screws.

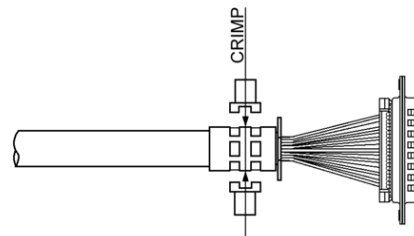
Assembly Instruction MHC / MHC35 Series



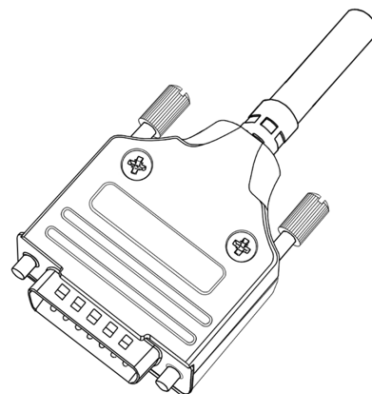
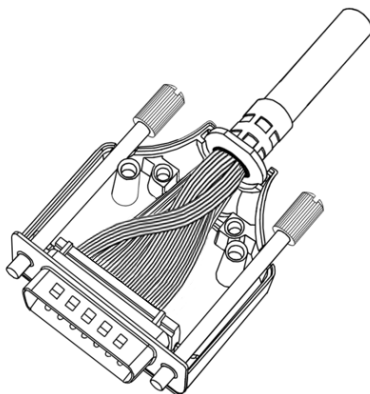
Prepare Cable as shown.
Slide Crimp Ferrule over Cable.



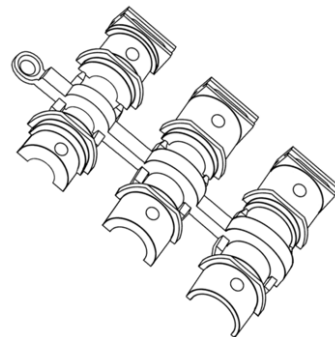
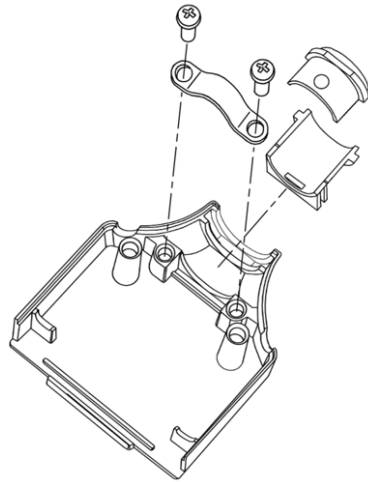
Put wires through and shape Metal Braid
around Loose Ferrule.



Crimp over the loose Crimp Ferrule.
Mount the Sub-D Connector.

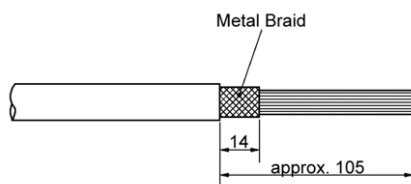


Assembly Instruction MHDM / MHDM35 Series

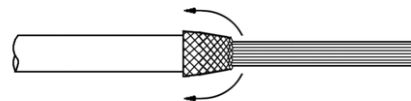


Choose Most Suitable Ferrule Size.
The Longer Part is to be Placed in
lower part of the Metal Hood.

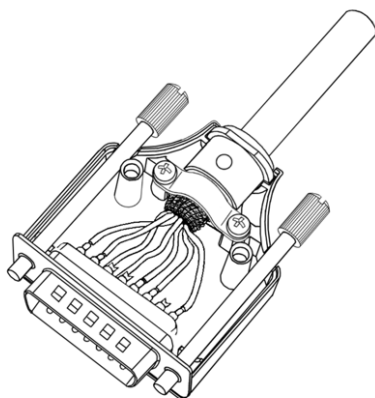
24



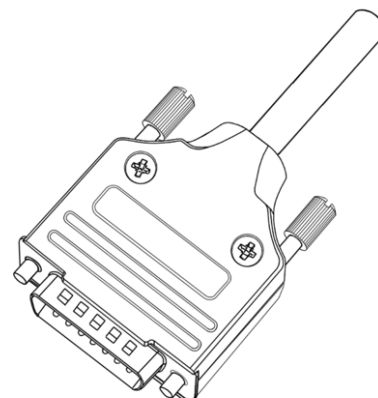
Prepare Cable as shown above.



Pull metal Braid back over the Cable Shield



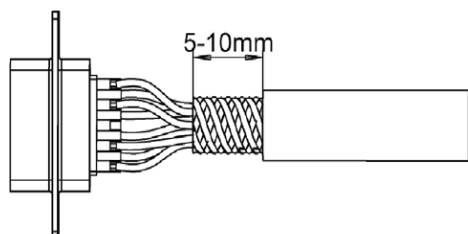
Place the Mounted Sub-D Connector
and Tighten the Screws over the Clamp.



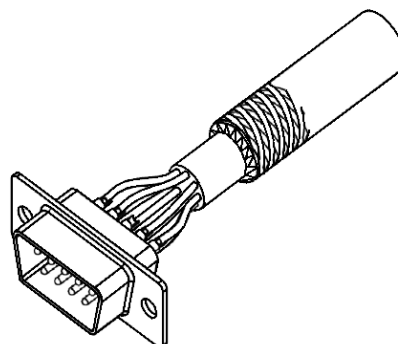
Close assembly by placing the upper
Metal Part and screw together with
accompanied screws.

Assembly Instruction DTSL Series

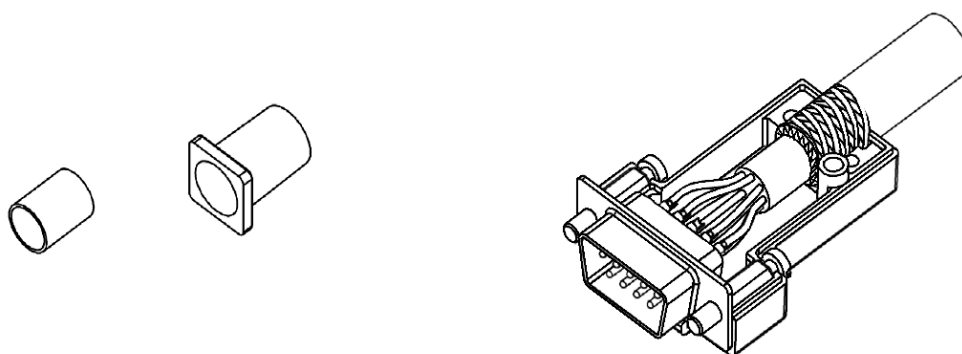
Strip cable.



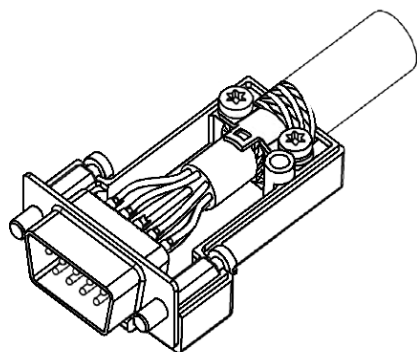
Bend cable shielding back on outside of cable.



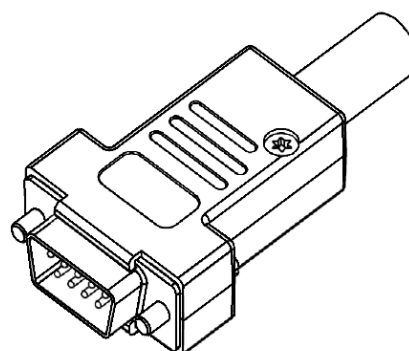
Mount connector and cable into the backshell.
NOTE! Ferrule and rubber bushing can be delivered as an option.



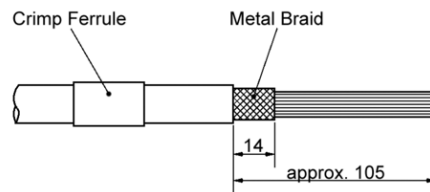
Mount cableclamp and screws.



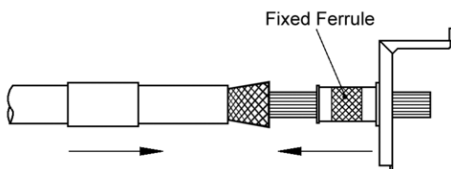
Assemble the other half
screwing force: 100-120 Ncm.



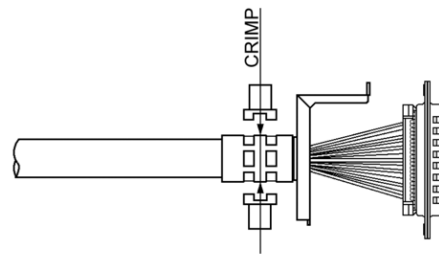
Assembly Instruction DTK - Standard (N) Series



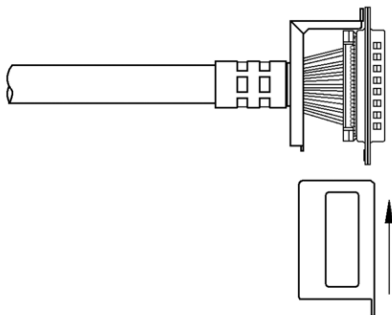
Prepare Cable as shown.
Slide Crimp Ferrule over Cable.



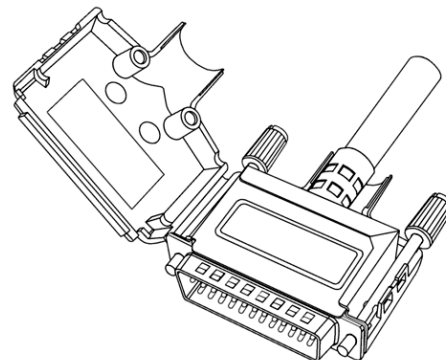
Put wires through and shape Metal Braid around Fixed Ferrule.



Crimp over the loose Crimp Ferrule.
Mount the Sub-D Connector.

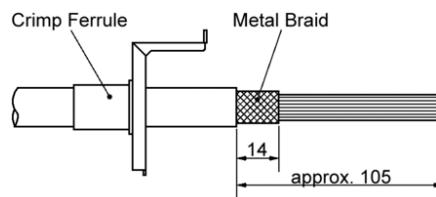


Place other piece of Metal Part which now closes the assembly to gain 360° Shielding.

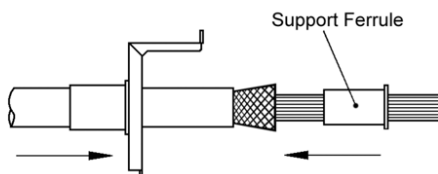


Put completed assembly inside Plastic Cover.
Your assembly is now finished.

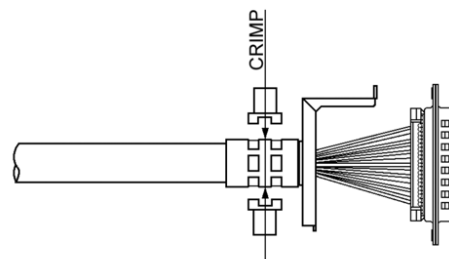
Assembly Instruction DTK - Reversed (R) Series



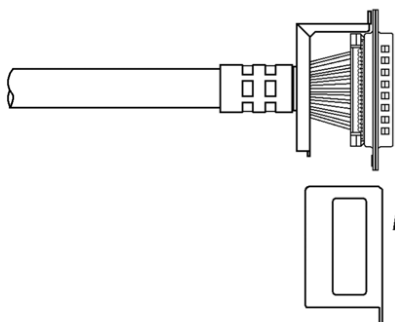
Prepare Cable as shown.
Slide Upper Metal Part over Cable.



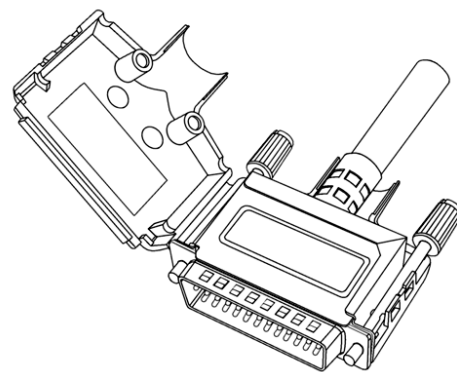
Put wires through and shape Metal Braid around Support ferrule.



Crimp over the Fixed Crimp Ferrule.
Mount the Sub-D Connector.



Place other piece of Metal Part
which now closes the assembly
to gain 360° Shielding.



Put completed assembly inside Plastic Cover.
Your assembly is now finished.

Handwriting practice lines consisting of 20 horizontal dotted lines.