

Signal connector M23 standard [6 to 19-pole]

Types

- Connector, standard and push-pull version, angular connector
- Lead through
- Coupling, standard or with central attachment

- PG 13.5 installation box
- Straight installation box with flange
- Installation box angled and angled rotatable with flange

Number of poles in insulation body

- 6, 7, [8+1], 9, 10, 12, 16, 17, [16+3]

Technical data for series A

Temperature range	-20 °C to +130 °C
Protection class	IP 66/67 [plugged]

Electrical data for signal 6 to 12-pole

Max. continuous nominal current	10 A
Nominal voltage	160 V (AC/DC)
Test voltage (L-L)	2500 V
Contact resistance	< 5 mΩ
Mating cycles	> 50

Electrical data for signal 16 to 19-pole

Max. continuous nominal current	9 A
Nominal voltage	125 V (AC/DC)
Test voltage (L-L)	2500 V
Contact resistance	< 5 mΩ
Mating cycles	> 50

Data according to VDE 0110/EN 61984, Clause 6.19.2.2

Pollution degree	3
Over-voltage category	III
Max. installation height	2000 m

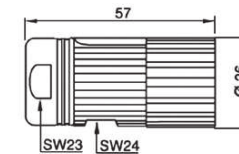
Connector materials

Housing	Zinc die-casting/brass, nickel-plated
Coupling nut	Brass, nickel-plated
Insulation body	PA 6.6/PBT, UL 94/V0
Contacts	Brass, gold-plated
Seals	FPM/HNBR
Clamping ring	Brass, nickel-plated



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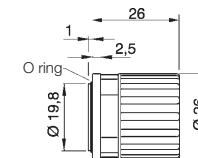
Signal connector [9 to 19-pole] (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT0179600	P type [8+1]-pole 3 coding slots		8x1.0		0.14-1.0	9.0-13,2	C+1+4
MAT0179601	E type 12-pole 3 coding slots		12x1.0		0.14-1.0	9.0-13,2	A
MAT0179602	P type 16-pole 1 coding slot		16x1.0		0.14-1.0	9.0-13,2	A
MAT0179603	P type 17-pole 3 coding slots		17x1.0		0.14-1.0	9.0-13,2	A
MAT0179604	P type [16+3]-pole 1 coding slot		16x1.0		0.14-1.0	9.0-13,2	C+1+5

Bulkhead connector with union nut (Metal construction, axial seal)



The bulkhead connector is harnessed with the above contacts and insulation bodies. The technical specifications apply accordingly. A cable clamp is not required by virtue of the design.

Example image

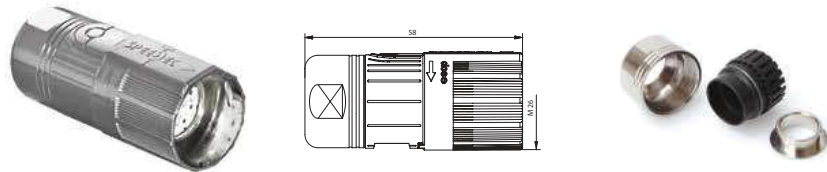
Part no.	Number of poles	Crimping tool + insert
MAT0179605	[8+1]	C+1+4
MAT0179606	12	A
MAT0179607	16	A
MAT0179608	17	A
MAT0179609	[16+3]	C+1+5

Crimping tools and inserts ► page 698



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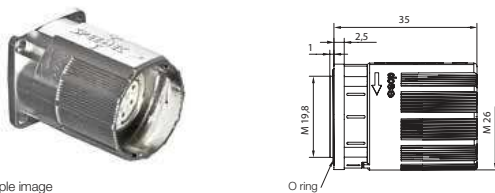
Signal connector [9 to 19-pole] (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01723461	P type [8+1]-pole 3 coding slots	8x1.0	0.14-1.0	1x2.0	0.35-2.5	9.0-13,2	C+1+4
MAT01723462	E type 12-pole 3 coding slots	12x1.0	0.14-1.0			9.0-13,2	A
MAT01723463	P type 16-pole 1 coding slot	16x1.0	0.14-1.0			9.0-13,2	A
MAT01723464	P type 17-pole 3 coding slots	17x1.0	0.14-1.0			9.0-13,2	A
MAT01723465	P type [16+3]-pole 1 coding slot	16x1.0	0.14-1.0	3x1.5	0.14-1.0	9.0-13,2	C+1+5

Bulkhead connector with union nut (Metal construction, axial seal)



Example image

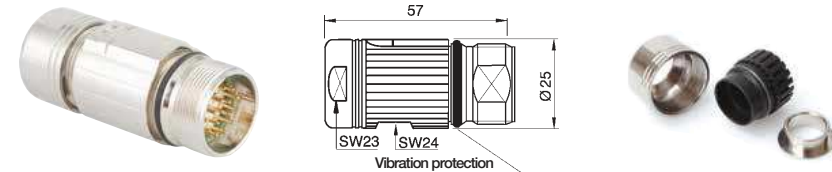
The bulkhead connector is harnessed with the above contacts and insulation bodies. The technical specifications apply accordingly. A cable clamp is not required by virtue of the design.

Part no.	Number of poles	Crimping tool + insert
MAT01723466	[8+1]	C+1+4
MAT01723467	12	A
MAT01723468	16	A
MAT01723469	17	A
MAT01723470	[16+3]	C+1+5

Crimping tools and inserts ► page 698



Signal coupling [9 to 19-pole] (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT0179610	E type [8+1]-pole 3 coding slots	8x1.0	0.14-1.0	1x2.0	0.35-2.5	9.0-13,2	C+1+4
MAT0179611	P type 12-pole 3 coding slots	12x1.0	0.14-1.0			9.0-13,2	A
MAT0179612	E type 16-pole 1 coding slot	16x1.0	0.14-1.0			9.0-13,2	A
MAT0179613	E type 17-pole 3 coding slots	17x1.0	0.14-1.0			9.0-13,2	A
MAT0179614	E type [16+3]-pole 1 coding slot	16x1.0	0.14-1.0	3x1.5	0.14-1.0	9.0-13,2	C+1+5

Coupling with central attachment (Metal construction, EMC shielding)

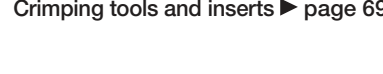


Example image

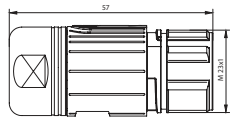
The coupling with central attachment is harnessed with the above contacts, insulation bodies and cable clamp. The technical specifications apply accordingly.

Part no.	Number of poles	Crimping tool + insert
MAT0179615	[8+1]	C+1+4
MAT0179616	12	A
MAT0179617	16	A
MAT0179618	17	A
MAT0179619	[16+3]	C+1+5

Crimping tools and inserts ► page 698



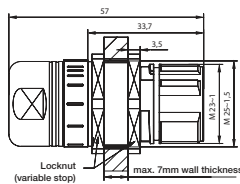
Signal coupling [9 to 19-pole] (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01723471	E type [8+1]-pole 3 coding slots	8x1.0	0.14-1.0	1x2.0	0.35-2.5	9.0-13,2	C+1+4
MAT01723472	P type 12-pole 3 coding slots	12x1.0	0.14-1.0			9.0-13,2	A
MAT01723473	E type 16-pole 1 coding slot	16x1.0	0.14-1.0			9.0-13,2	A
MAT01723474	E type 17-pole 3 coding slots	17x1.0	0.14-1.0			9.0-13,2	A
MAT01723475	E type [16+3]-pole 1 coding slot	16x1.0	0.14-1.0	3x1.5	0.14-1.0	9.0-13,2	C+1+5

Coupling with central attachment (Metal construction, EMC shielding)



The coupling with central attachment is harnessed with the above contacts, insulation bodies and cable clamp. The technical specifications apply accordingly.

Example image

Part no.	Number of poles	Crimping tool + insert
MAT01723476	[8+1]	C+1+4
MAT01723477	12	A
MAT01723478	16	A
MAT01723479	17	A
MAT01723480	[16+3]	C+1+5

Crimping tools and inserts ► page 698

Power connector
Size 1 [6, 8 and 9-pole]

Types

- Connector, short and long, push-pull version, angular connector
- Coupling, standard or with central attachment
- Lead-through
- Installation box straight with flange
- Installation box angled and angled rotatable with flange

Number of poles in insulation body

- 6, 8, 9

Technical data for series B

Temperature range	-20 °C to +130 °C
Protection class	IP 66/67 [plugged]

Electrical data for power 6-pole

Max. continuous nominal current	max. 28 A (6-pole) max. 30 A (8/9-pole)
Nominal voltage	630 V (AC/DC)
Testing voltage (L-L)	6000 V
Contact resistance	< 3 mΩ
Mating cycles	> 50

Electrical data for signal 8 and 9-pole

Max. continuous nominal current	10 A
Nominal voltage	250 V (AC/DC)
Testing voltage (L-L)	2500 V
Contact resistance	< 5 mΩ
Mating cycles	> 50

Data according to VDE 0110/EN 61984, Clause 6.19.2.2

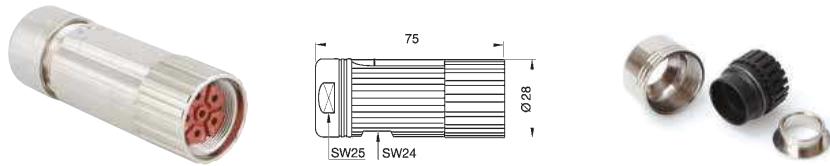
Pollution degree	3
Over-voltage category	III
Max. installation height	2000 m

Connector materials

Housing	Zinc die-casting, /brass, nickel-plated (*)
Coupling nut	Brass, nickel-plated
Insulation body	PA 6.6/PBT, UL 94/V0
Contacts	Brass, gold-plated
Seals	FPM/HNBR
Clamping ring	Brass, nickel-plated *optional: Stainless steel



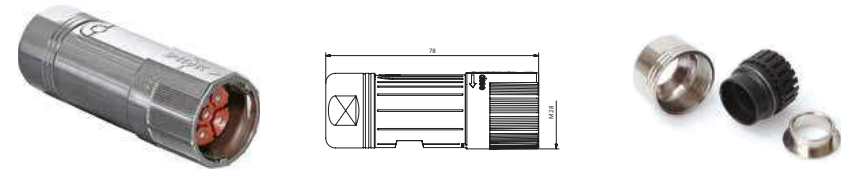
Power connector [6 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	HC female crimp [mm]	Crimping range [mm ²]	HC female crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT0179620	P type 6-pole	6x2.0	0.35-2.5			9.5-14.5	C+2
MAT0179621	P type 8-pole	4x2.0	0.35-2.5	4x1.0	0.14-1.0	9.5-14.5	C+1+2
MAT0179622	P type 9-pole	4x2.0	0.35-2.5	5x1.0	0.14-1.0	9.5-14.5	C+1+2

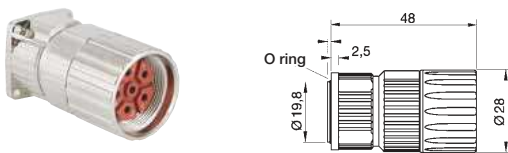
Power connector [6 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	HC female crimp [mm]	Crimping range [mm ²]	HC female crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01723481	P type 6-pole	6x2.0	0.35-2.5			9.5-14.5	C+2
MAT01723482	P type 8-pole	4x2.0	0.35-2.5	4x1.0	0.14-1.0	9.5-14.5	C+1+2
MAT01723483	P type 9-pole	4x2.0	0.35-2.5	5x1.0	0.14-1.0	9.5-14.5	C+1+2

Bulkhead connector with union nut (Metal construction, axial seal)

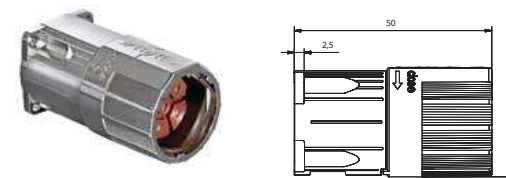


Example image

Part no.	Number of poles	Crimping tool + insert
MAT0178406	6	C+2
MAT0175661	8	C+1+2
MAT0179033	9	C+1+2

The bulkhead connector is harnessed with the above contacts and insulation bodies. The technical specifications apply accordingly. A cable clamp is not required by virtue of the design.

Bulkhead connector with union nut (Metal construction, axial seal)



Example image

Part no.	Number of poles	Crimping tool + insert
MAT01723484	6	C+2
MAT01723485	8	C+1+2
MAT01723486	9	C+1+2

The bulkhead connector is harnessed with the above contacts and insulation bodies. The technical specifications apply accordingly. A cable clamp is not required by virtue of the design.

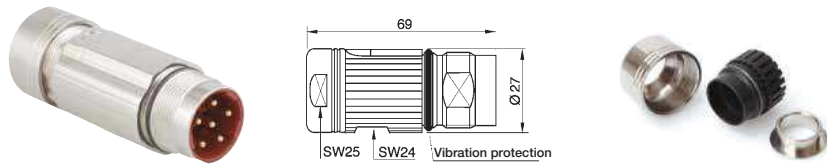
Crimping tools and inserts ► page 698



Crimping tools and inserts ► page 698



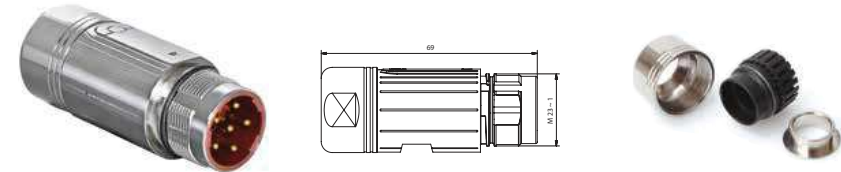
Power coupling [6 to 9-pole] nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT0179623	E type 6-pole	6x2.0	0.35-2.5			9.5-14.5	C+3
MAT0179624	E type 8-pole	4x2.0	0.35-2.5	4x1.0	0.14-1.0	9.5-14.5	C+3
MAT0179625	E type 9-pole	4x2.0	0.35-2.5	5x1.0	0.14-1.0	9.5-14.5	C+3

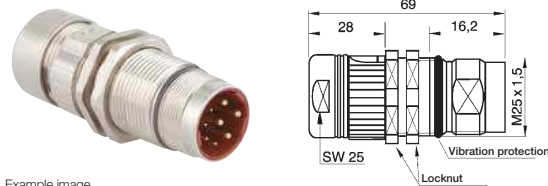
Power coupling [6 to 9-pole] nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01723487	E type 6-pole	6x2.0	0.35-2.5			9.5-14.5	C+3
MAT01723488	E type 8-pole	4x2.0	0.35-2.5	4x1.0	0.14-1.0	9.5-14.5	C+3
MAT01723489	E type 9-pole	4x2.0	0.35-2.5	5x1.0	0.14-1.0	9.5-14.5	C+3

Coupling with central attachment (Metal construction, EMC shielding)

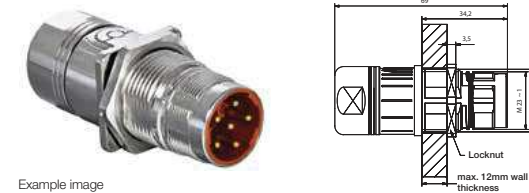


Example image

The coupling with central attachment is harnessed with the above contacts, insulation bodies and cable clamp. The technical specifications apply accordingly.

Part no.	Number of poles	Crimping tool + insert
MAT0179626	6	C+3
MAT0179627	8	C+3
MAT0179628	9	C+3

Coupling with central attachment (Metal construction, EMC shielding)



Example image

The coupling with central attachment is harnessed with the above contacts, insulation bodies and cable clamp. The technical specifications apply accordingly.

Part no.	Number of poles	Crimping tool + insert
MAT01723490	6	C+3
MAT01723491	8	C+3
MAT01723492	9	C+3

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Crimping tools and inserts ► page 698



Power connector Size 1.5 [6, 8 and 9-pole]

Types

- Connector, angular connector
- Coupling
- Lead-through
- Straight installation box with flange
- Installation box angled and angled rotatable with flange

Number of poles in insulation body

- 6, 8, 9

Technical data for series C

Temperature range	-20 °C to +130 °C
Protection class	IP 66/67 [plugged]

Electrical data for power 6 to 19-pole

Max. continuous nominal current	75 A
Nominal voltage	630 V (AC/DC)
Testing voltage (L-L)	6000 V
Contact resistance	< 1 mΩ
Mating cycles	> 50

Data according to VDE 0110/EN 61984, Clause 6.19.2.2

Pollution degree	3
Over-voltage category	III
Max. installation height	2000 m

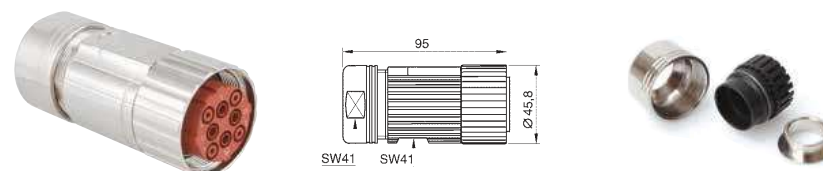
Connector materials

Housing	Magnesium die-casting/Aluminium
Coupling nut	Brass, nickel-plated
Insulation body	PA 6.6/PBT, UL 94/V0
Contacts	Brass, gold-plated
Seals	FPM/HNBR
Clamping ring	Brass, nickel-plated



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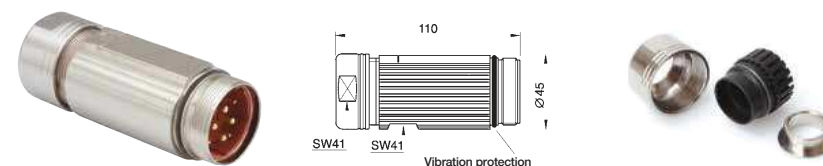
Power connector [6 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	HC female crimp [mm]	Crimping range [mm ²]	HC female crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT0179629	P type 6-pole	4x3.6	1.5-10.0	2x2.0	0.5-2.5	9.0-16.5	D+9 + C+2
MAT0179630	P type 8-pole	4x3.6	1.5-10.0	4x2.0	0.5-2.5	9.0-16.5	D+9 + C+2
MAT0179631	P type 9-pole	4x3.6	1.5-10.0	5x2.0	0.5-2.5	9.0-16.5	D+9 + C+2

Power coupling [6 to 9-pole] nickel-plated (Metal construction, EMC shielding)



Example image

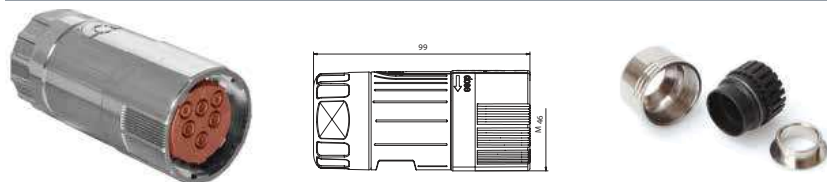
Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT0179632	E type 6-pole	4x3.6	1.5-10.0	2x2.0	0.5-2.5	9.0-16.5	D+9 + C+3
MAT0179633	E type 8-pole	4x3.6	1.5-10.0	4x2.0	0.5-2.5	9.0-16.5	D+9 + C+3
MAT0179634	E type 9-pole	4x3.6	1.5-10.0	5x2.0	0.5-2.5	9.0-16.5	D+9 + C+3

Crimping tools and inserts ► page 698



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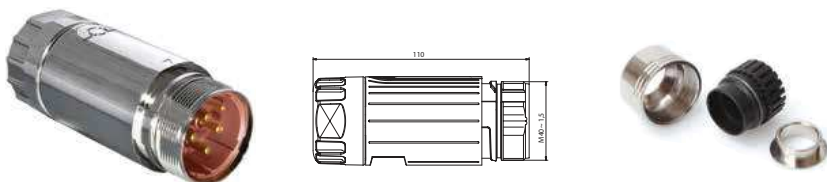
Power connector [6 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	HC female crimp [mm]	Crimping range [mm ²]	HC female crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01723501	P type 6-pole		4x3.6	1.5-10.0	2x2.0	0.5-2.5	9.0-16.5	D+9 + C+2
MAT01723502	P type 8-pole		4x3.6	1.5-10.0	4x2.0	0.5-2.5	9.0-16.5	D+9 + C+2
MAT01723503	P type 9-pole		4x3.6	1.5-10.0	5x2.0	0.5-2.5	9.0-16.5	D+9 + C+2

Power coupling [6 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01723504	E type 6-pole		4x3.6	1.5-10.0	2x2.0	0.5-2.5	9.0-16.5	D+9 + C+3
MAT01723505	E type 8-pole		4x3.6	1.5-10.0	4x2.0	0.5-2.5	9.0-16.5	D+9 + C+3
MAT01723506	E type 9-pole		4x3.6	1.5-10.0	5x2.0	0.5-2.5	9.0-16.5	D+9 + C+3

Crimping tools and inserts ► page 698

Power connector
Size 3 [6 and 9-pole]

Types

- Connector
- Coupling
- Straight installation box with flange
- Angled installation box with flange

Number of poles in insulation body

- 6, 8

Technical data for series D

Temperature range	-20 °C to +130 °C
Protection class	IP 66/67 [plugged]

Electrical data for power 6 and 8-pole

Max. continuous nominal current	max. 150 A
Nominal voltage	630 V (AC/DC)
Testing voltage (L-L)	6000 V
Contact resistance	< 90 mΩ
Mating cycles	> 50

Electrical data for signal contacts

Max. continuous nominal current	12 A
Nominal voltage	250 V (AC/DC)
Testing voltage (L-L)	4000 V
Contact resistance	< 5 mΩ
Mating cycles	> 50

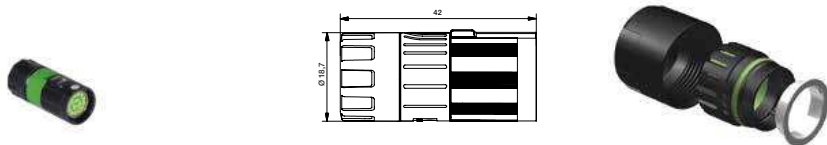
Data according to VDE 0110/EN 61984, Clause 6.19.2.2

Pollution degree	3
Over-voltage category	III
Max. installation height	2000 m

Connector materials

Housing	Zinc die-casting, nickel-plated
Coupling nut	Brass, nickel-plated
Insulation body	PA 6.6/PBT, UL 94/V0
Contacts	Brass, silver-/gold-plated
Seals	FPM
Clamping ring	Aluminium, nickel-plated

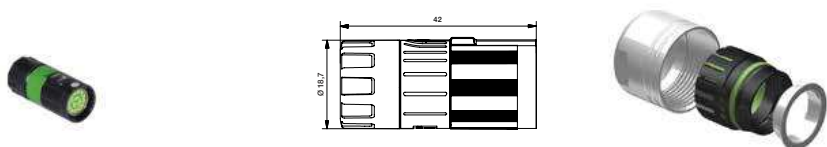
Signal connector [12-pole], (Plastic clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730633	P type 12-pole		12 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730634	P type 12-pole		12 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730635	P type 12-pole		12 x 1	0.1-0.75	8.5-10.5	C + 14

Signal connector [12-pole], nickel-plated (Metal clamping ring, EMC-shielding)



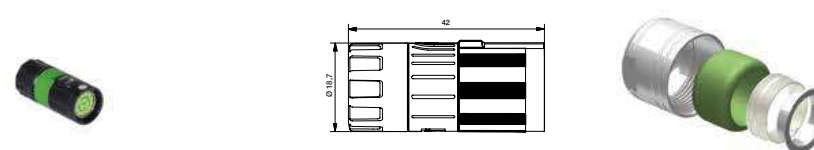
Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730636	P type 12-pole		12 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730637	P type 12-pole		12 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730638	P type 12-pole		12 x 1	0.1-0.75	8.5-10.5	C + 14

Crimping tools and inserts ► page 698



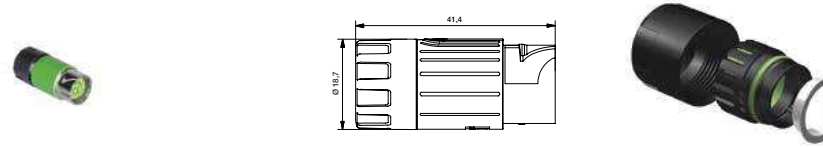
Signal connector [12-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730639	P type 12-pole		12 x 1	0.1-0.75	10.5-12.5	C + 14

Signal coupling [12-pole], (Plastic clamping ring, EMC-shielding)



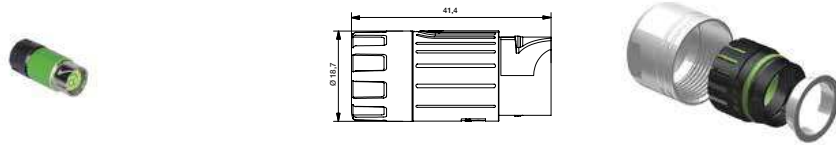
Example image

Part no.	Insulation body	Male crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730640	E type 12-pole		12 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730641	E type 12-pole		12 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730642	E type 12-pole		12 x 1	0.1-0.75	8.5-10.5	C + 14

Crimping tools and inserts ► page 698



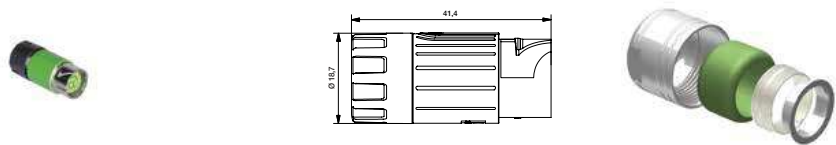
Signal coupling [12-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Male crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730643	E type 12-pole		12 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730644	E type 12-pole		12 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730645	E type 12-pole		12 x 1	0.1-0.75	8.5-10.5	C + 14

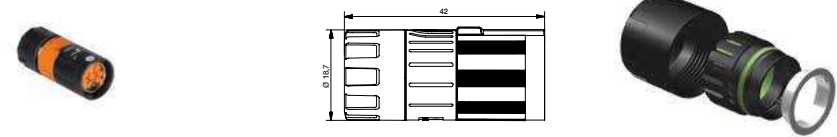
Signal coupling [12-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Male crimp, slotted [mm]	Crimping range [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730646	E type 12-pole		12 x 1	0.1-0.75	10.5-12.5	C + 14

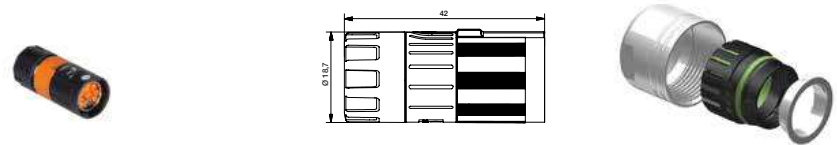
Power connector [9-pole], (Plastic clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping area [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730647	P type 9-pole		4 x 1	0.5-0.15	5 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730648	P type 9-pole		4 x 1	0.5-0.15	5 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730649	P type 9-pole		4 x 1	0.5-0.15	5 x 1	0.1-0.75	8.5-10.5	C + 14

Power connector [9-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping area [mm ²]	Clamping range [mm]	Crimping tool + insert	
MAT01730650	P type 9-pole		4 x 1	0.5-0.15	5 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730651	P type 9-pole		4 x 1	0.5-0.15	5 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730652	P type 9-pole		4 x 1	0.5-0.15	5 x 1	0.1-0.75	8.5-10.5	C + 14

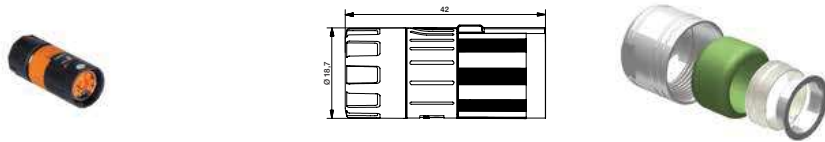
Crimping tools and inserts ► page 698



Crimping tools and inserts ► page 698



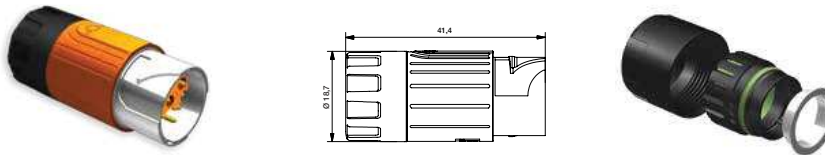
Power connector [9-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping area [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01730653	P type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	10.5-12.5	C + 14

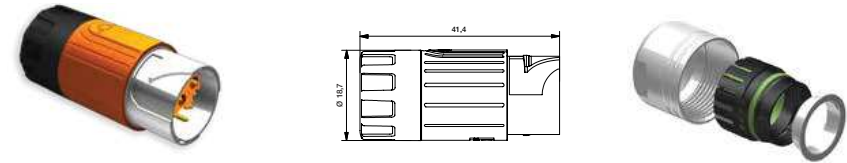
Power coupling [9-pole], (Plastic clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Male crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping area [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01730654	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730655	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730656	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	8.5-10.5	C + 14

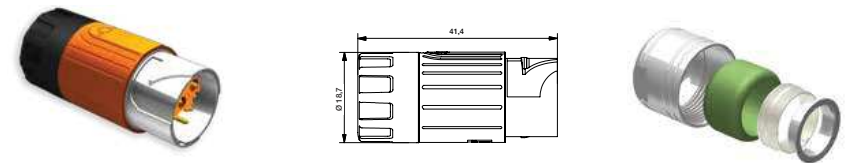
Power coupling [9-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Male crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping area [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01730657	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	4.5-6.5	C + 14
MAT01730658	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	6.5-8.5	C + 14
MAT01730659	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	8.5-10.5	C + 14

Power coupling [9-pole], nickel-plated (Metal clamping ring, EMC-shielding)



Example image

Part no.	Insulation body	Male crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping area [mm ²]	Clamping range [mm]	Crimping tool + insert
MAT01730660	E type 9-pole	4 x 1	0.5-0.15	5 x 1	0.1-0.75	10.5-12.5	C + 14

Crimping tools and inserts ► page 698



Crimping tools and inserts ► page 698



Signal and power connector
M17 signal- [17-pole] and power connector [4 to 9-pole]

Types

- Connector, standard and push-pull version
- Coupling, standard or with central attachment
- Straight installation box with flange
- Installation box straight, connecting thread M17 x 0.75
- Installation box angled, turnable with flange
- Installation box angled and angled rotatable with flange

Number of poles in insulation body

- Signal: 17
- Power: 4, 7, 9

Technical data for series M17

Temperature range	-20 °C to +130 °C
Protection class	IP 66/67 [plugged]

Electrical data for signal 17-pole

Max. continuous nominal current	3.6 A
Nominal voltage	63 V (AC /DC)
Testing voltage (L-L)	1500 V
Contact resistance	< 15 mΩ
Mating cycles	> 50

Electrical data for Power 4 and 7-pole

	4-pole	7-pole
Max. continuous nominal current	2.5 mm ² : 20 A	1 mm ² : 10 A 1.5 mm ² : 14 A
Nominal voltage	630 V (AC /DC)	630 V (AC /DC)
Testing voltage (L-L)	6000 V	6000 V
Contact resistance	< 5 mΩ	< 5 mΩ
Mating cycles	> 50	> 50

Electrical data for Power 9-pole

Max. continuous nominal current	Signal: 3.6 A	Power: 14 A
Nominal voltage	Signal: 63 V [AC/DC]	Power: 630 V [AC/DC]
Testing voltage (L-L)	Signal: 1500 V	Power: 6000 V
Contact resistance	Signal: < 15 mΩ	Power: < 5 mΩ
Mating cycles	> 50	

Data according to VDE 0110/EN 61984, Clause 6.19.2.2

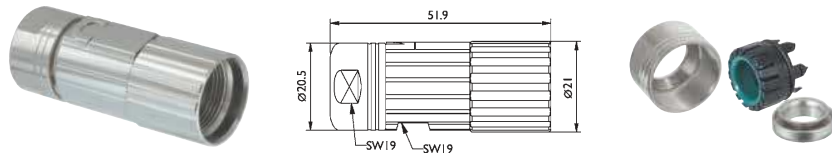
Pollution degree	3
Over-voltage category	III
Max. installation height	2000 m

Connector materials

Housing	Zinc die-casting/brass, nickel-plated
Union nut	Brass, nickel-plated
Insulation body	PBT, UL 94/V0
Contacts	Brass, gold-plated
Seals	FPM
Clamping ring	Brass, nickel-plated



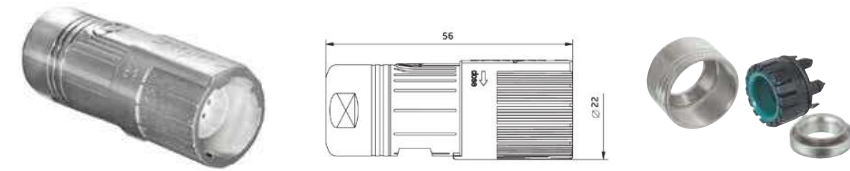
Signal connector [17-pole], nickel-plated (Metal construction, EMC-shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range** [mm]	Crimping tool + insert
MAT0179639	P type 17-pole		17x0.6	0.14-0.5		9.5-12.0	B

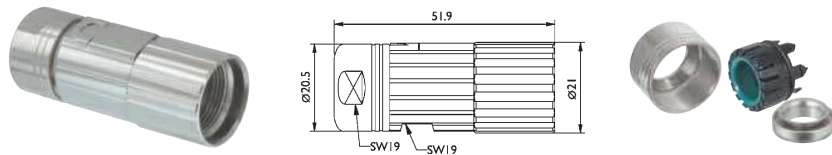
Signal connector [17-pole], nickel-plated (Metal construction, EMC-shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range** [mm]	Crimping tool + insert
MAT01723493	P type 17-pole		17x0.6	0.14-0.5		9.5-12.0	B

Power connector [4 to 9-pole], nickel-plated (Metal construction, EMC shielding)

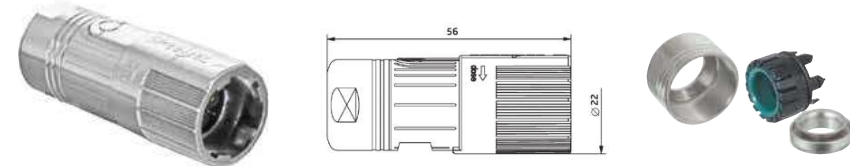


Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range** [mm]	Crimping tool + insert	
MAT0179641	P type 4-pole		4x1.5	0.35-2.5	1x2.0	0.35-2.5	9.5-12.0	C+1
MAT0179643	P type 7-pole		7x1.0*	0.5-1.5		9.5-12.0	A	
MAT0179645	P type 9-pole		4x1.0*	0.5-1.5	5x0.6	0.14-0.5	9.5-12.0	A+B

* HC Female crimp
** Crown clamp

Power connector [4 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Female crimp, slotted [mm]	Crimping range [mm ²]	Female crimp, slotted [mm]	Crimping range [mm ²]	Clamping range** [mm]	Crimping tool + insert	
MAT01723495	P type 4-pole		4x1.5	0.35-2.5	1x2.0	0.35-2.5	9.5-12.0	C+1
MAT01723497	P type 7-pole		7x1.0*	0.5-1.5		9.5-12.0	A	
MAT01723499	P type 9-pole		4x1.0*	0.5-1.5	5x0.6	0.14-0.5	9.5-12.0	A+B

* HC Female crimp
** Crown clamp

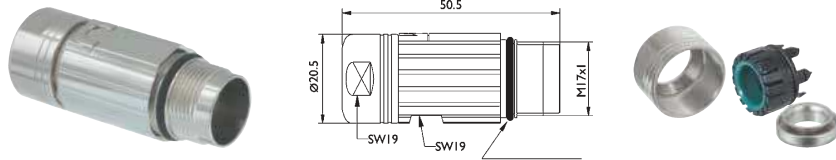
Crimping tools and inserts ► page 698



Crimping tools and inserts ► page 698



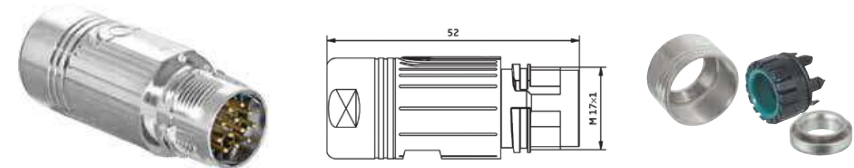
Signal coupling [17-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range* [mm]	Crimping tool + insert
MAT0179640	E type 17-pole	17x0.6	0.14-0.5			9.5-12.0	B

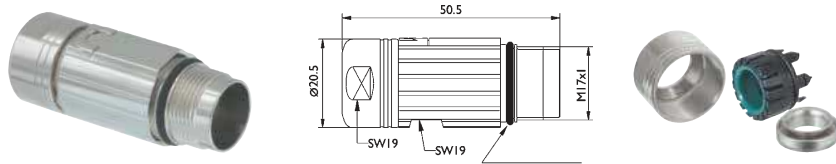
Signal coupling [17-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range* [mm]	Crimping tool + insert
MAT01723494	E type 17-pole	17x0.6	0.14-0.5			9.5-12.0	B

Power coupling [4 to 9-pole], nickel-plated (Metal construction, EMC shielding)

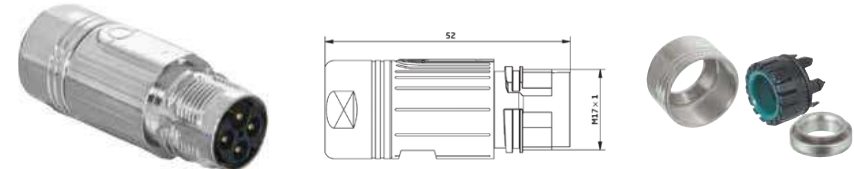


Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range* [mm]	Crimping tool + insert
MAT0179642	E type 4-pole	4x1.5	0.35-2.5	1x2.0	0.35-2.5	9.5-12.0	C+6
MAT0179644	E type 7-pole	7x1.0	0.5-1.5			9.5-12.0	A
MAT0179646	E type 9-pole	4x1.0	0.5-1.5	5x0.6	0.14-0.5	9.5-12.0	A+B

* Crown clamp

Power coupling [4 to 9-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Male crimp [mm]	Crimping range [mm ²]	Male crimp [mm]	Crimping range [mm ²]	Clamping range* [mm]	Crimping tool + insert
MAT01723496	E type 4-pole	4x1.5	0.35-2.5	1x2.0	0.35-2.5	9.5-12.0	C+6
MAT01723498	E type 7-pole	7x1.0	0.5-1.5			9.5-12.0	A
MAT01723500	E type 9-pole	4x1.0	0.5-1.5	5x0.6	0.14-0.5	9.5-12.0	A+B

* Crown clamp

Crimping tools and inserts ► page 698



Crimping tools and inserts ► page 698



Power connector 1-pole

Types

- Connector
- Coupling
- Straight installation box with flange

Number of poles in insulation body

- 1

Technical data for series S

Temperature range	-20 °C to +130 °C
Protection class	IP 66/67 [plugged]

Electrical data for Power

Nominal voltage	630 V (AC/DC)
Testing voltage (L-L)	8000 V
Contact resistance	< 110 mΩ
Mating cycles	> 50
Max. continuous nominal current	
At terminal cross-section 10 mm ² :	80 A
At terminal cross-section 16 mm ² :	100 A
At terminal cross-section 25 mm ² :	130 A
At terminal cross-section 35 mm ² :	160 A
At terminal cross-section 50 mm ² :	200 A

Data according to VDE 0110/EN 61984, Clause 6.19.2.2

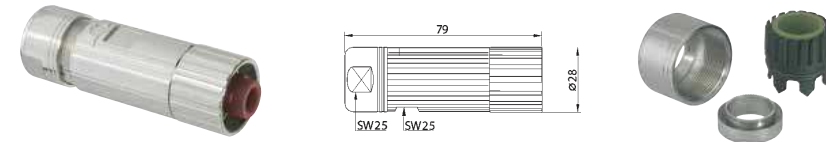
Pollution degree	3 [2]
Over-voltage category	IV
Max. installation height	2000 m

Connector materials

Housing	Zinc die-casting/brass, nickel-plated
Coupling nut	Brass, nickel-plated
Insulation body	PA 6.6mod., UL 94/V0
Contacts	Brass, silver-plated
Seals	FPM
Clamping ring	Brass, nickel-plated



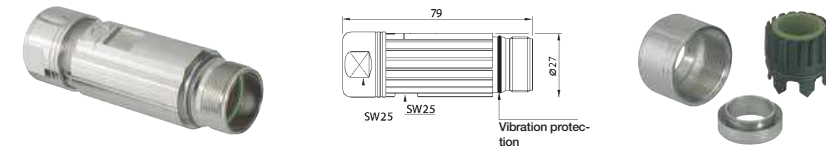
Power connector [1-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Female crimp [mm]	Crimping range [mm ²]	Female crimp [mm]	Crimping range [mm ²]	Clamping range* [mm]	Crimping tool + insert
MAT0179669	P type 1-pole	1x8.0	10.0			9.5-14.5	E+10

Power coupling [1-pole], nickel-plated (Metal construction, EMC shielding)



Example image

Part no.	Insulation body	Female crimp [mm]	Crimping range [mm ²]	Female crimp [mm]	Crimping range [mm ²]	Clamping range* [mm]	Crimping tool + insert
MAT0179670	E type 1-pole	1x8.0	10.0	2x1.6		9.5-14.5	E+10

* Crown clamp

Crimping tools and inserts ► page 698



...is the connector you are looking for not included in this catalogue?

Whether for your production or for spares, or a mating half for an existing connector; we can help!



Circular connectors e.g. in size M23



Sub-D signal connectors



Rectangular connectors, C148, Y-Tec® or plug for network and bus systems

Connector service packs consisting of housing, insulation, strain relief, Crimp-/solder contact, in any quantity completely picked and packed for you.

Your benefits at a glance:

- More than 3,500 connectors components from stock
- Manufacturer independent, world-wide procurement, thanks to the igus® network
- Custom article numbers/labeling possible on each package
- Price: benefit from the consolidated demand of our customers
- Purchasing: only 1 order number, everything from a single source
- QA: only one incoming inspection
- Internal logistics: only one storage location, fast identification

Talk to us! We can help!

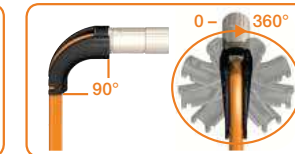


- ▶ **Safe ...**
Easy retrofit assembly without opening the connector
- ▶ **Flexible ...**
Freely selectable angle of rotation
- ▶ **Cost-effective ...**
1 connector type gives straight and angled versions
- ▶ **Customised ...**
Colour coded and, upon request, with labelling

Push connector on ...



bend the cable ...



fix the cable ...



and ready to use!



Assembly video and information:
www.igus.eu/ibow

Suitable for 923 power connectors, size 1.
Can be retrofitted for an angle of 90° ... or supplied ready-made as a harnessed igus® readycable®



Angle adapter igus® ibow	
Part No.	
MAT904104175	for 923 power connector
MAT904104176	for 623 signal connector

Crimping tool for SERIES A and B



Hand crimping tool
for Ø 1 mm contacts
up to core cross section 1 mm²
includes positioning insert

A

MAT01710294



Positioning insert
for Ø 0.6 mm
contacts

MAT01712938

Crimping tool for SERIES M17



Hand crimping tool
for Ø 0.6 mm contacts
up to core cross section 0.5 mm²
includes positioning insert

B

MAT0178919



MAT0179467

Crimping tool for SERIES A, B, C and M17



Hand crimping tool
for Ø 1 mm and Ø 2 mm contacts
up to core cross section 4 mm²
includes positioning carrier

MAT0175736



Positioning insert
for Ø 1 mm contacts

MAT0178195



Positioning insert
for Ø 2 mm contacts

MAT0178196



Positioning insert
for Ø 1 mm and Ø 2 mm
contacts

MAT0177855



Positioning insert
for Ø 2 mm contacts

MAT01714573



Positioning insert
for Ø 1.5 mm contacts

MAT01714574



Positioning insert
for Ø 0.5 - 2.5 mm
contacts

MAT0178920



Positioning insert
for Ø 1.6 mm contacts

MAT0177853



Positioning insert
for Ø 1.6 mm contacts

MAT01714575



Positioning insert
for Ø 1.0 mm contacts
Y-Tec

MAT01724301

Crimping tool for SERIES C



Hand crimping tool
for Ø 3.6 mm contacts
up to core cross section 16 mm²
includes positioning carrier

D

MAT0179194



Positioning insert
for Ø 3.6 mm contacts

MAT0179195

Crimping tool for SERIES C



Pneumatic crimping tool
for Ø 3.6 mm and
Ø 2.0 mm contacts
Core cross section 1.5 - 16 mm²

MAT01721441

Crimping insert for pneumatic crimping tool



Contact	Pin Ø 2.0 mm Socket Ø 3.6 mm	Pin Ø 3.6 mm Socket Ø 3.6 mm	Pin Ø 3.6 mm Socket Ø 3.6 mm	Pin Ø 3.6 mm Socket Ø 3.6 mm
Crimp area	1.5/2.5 mm ² 1.5/2.5 mm ²	4.0/6.0 mm ²	10.0 mm ²	16.0 mm ²
	MAT01727426	MAT01727428	MAT01721442	MAT01721444

Locator for pneumatic crimping tool



Contact	Pin Ø 2.0 mm Socket Ø 2.0 mm	Pin Ø 3.6 mm Socket Ø 3.6 mm	Pin Ø 3.6 mm Socket Ø 3.6 mm
Crimp area	1.5/2.5 mm ² 1.5/2.5 mm ²	1.5 - 10.0 mm ²	1.5 - 16.0 mm ²
	MAT01727429	MAT01721443	MAT01721445

Crimping insert for SERIES S and D



Battery-powered crimping tool, B131-C



Crimping jaws
up to 10 mm², 16 mm²

MAT0177854



Crimping jaws
up to 25 mm²

MAT01713678



Crimping jaws
up to 35 mm²

MAT01713677



Crimping jaws
up to 50 mm²

MAT01713676