



Leading Provider of Cable Management Solutions

M12 Power Circular Connectors

Compact & Powerful



Circular Connectors - M12 Power Compact & Powerful

M12 goes Power!

A major milestone in an age of miniaturization we present the "NEW" M12 Power Connector!

This circular connector opens the door to entirely new applications and capabilities! Its high power transmission, compact design and the large temperature range are extraordinary features. The electro-mechanical features of this compact power connector are convincing!

- Power transmission to 16 A and 630 V
- Protection IP 67 and IP 69K
- Cable diameter up to 11 mm (0.43")
- Temperature range to 125 degree Celsius
- EMI (EMC) Shielding in standard version
- K, L, S, T Coding (4 & 5 positions)
- Robust metal housing
- Compact designs
- Optional stainless steel



**Same performance
...more compact!**

Circular Connectors - M12 Power

Technical Data

Materials and Technical Data

Housing	Copper-Zinc alloy / Die Cast INOX AISI 316 L TPU (Molded versions)	
Housing surface	Nickel plated Black chrome-plated	
Inserts (for contacts)	PBT	Fire protection class V-0
Contacts	Copper alloy	
Contact surface at point of contact	Gold plated	
Minimum mating cycles	> 100	
Seals / O-Rings	FKM / NBR	
Temperature range	-40°C – 125°C (-40°F – 257°F)	
Type of contacts	Crimp, screw	
Protection	IP 67 / IP 69K	
Cable diameter range	3 – 11 mm (.08 – .43“)	

Electrical Data

Coding	S (Screw)	T (Screw)	K (Crimp)	L (Crimp)
Colors	black	dark grey	blue	grey
Number of positions	4 (3 + PE)	4	5 (4 + PE)	5 (4 + PE)
(mm²) AWG	(0,5 – 1,5) AWG 20 – 16	(0,5 – 1,5) AWG 20 – 16	(0,75 – 2,5) AWG 18 – 14	(0,75 – 2,5) AWG 18 – 14
Nominal current [A]	12	12	16	16
Nominal voltage [V~] degree of protection 3	630	63	630	63
Test voltage (Breakdown voltage) [V~]	6000	1500	6000	1500
Insulation resistance [MΩ]	> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶
Max. contact resistance [mΩ]	< 3	< 3	< 3	< 3

Technical Information

Nominal Current: Allowable current (Amp), that can be transmitted by each contact continuously and simultaneously.

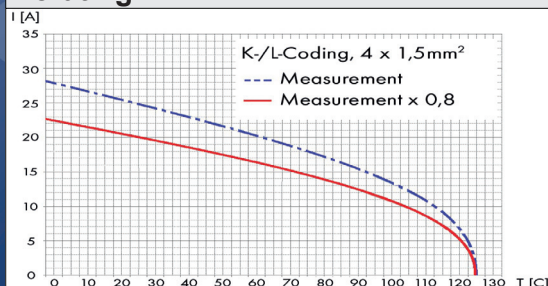
Nominal Voltage: Allowable voltage (Volt), that can be applied to each contact continuously and simultaneously.

Test Voltage: Voltage which, under certain conditions, a connector can be exposed to without breakdown.

Degree of Protection: Potential dirt accumulation of a disconnected connector in a certain environment.

Don't connect or disconnect HUMMEL Connectors under load.

Derating M12



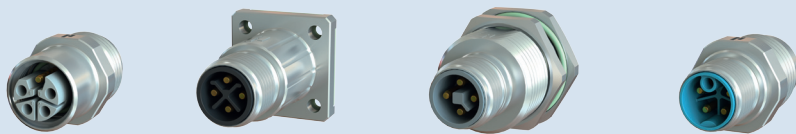
Straight & Elbow Connectors - Female/Male Threads

Page 6



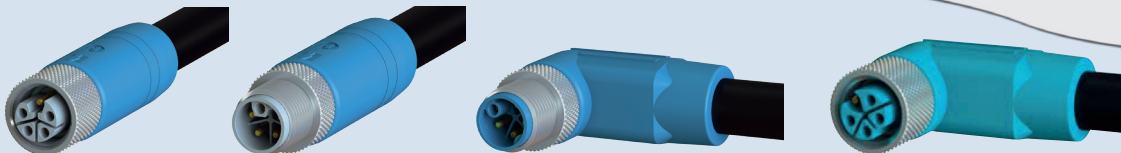
Panel Mount Connectors - Female/Male Threads

Page 6



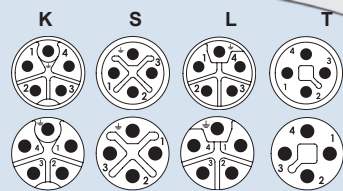
Molded Cordsets - Straight & Elbow - Female/Male Threads

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Inserts Configurations

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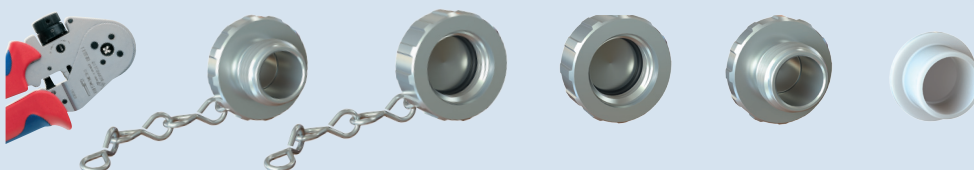
Contacts - Pins & Sockets

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Accessories

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Technical Data

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Benefits

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Assembly Instructions

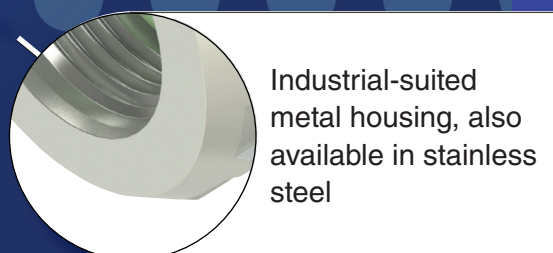
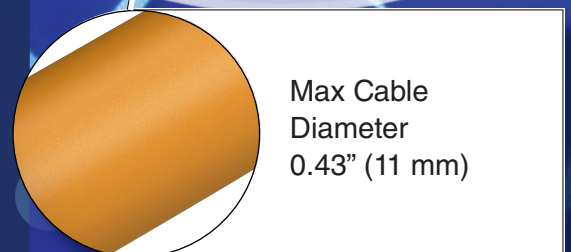
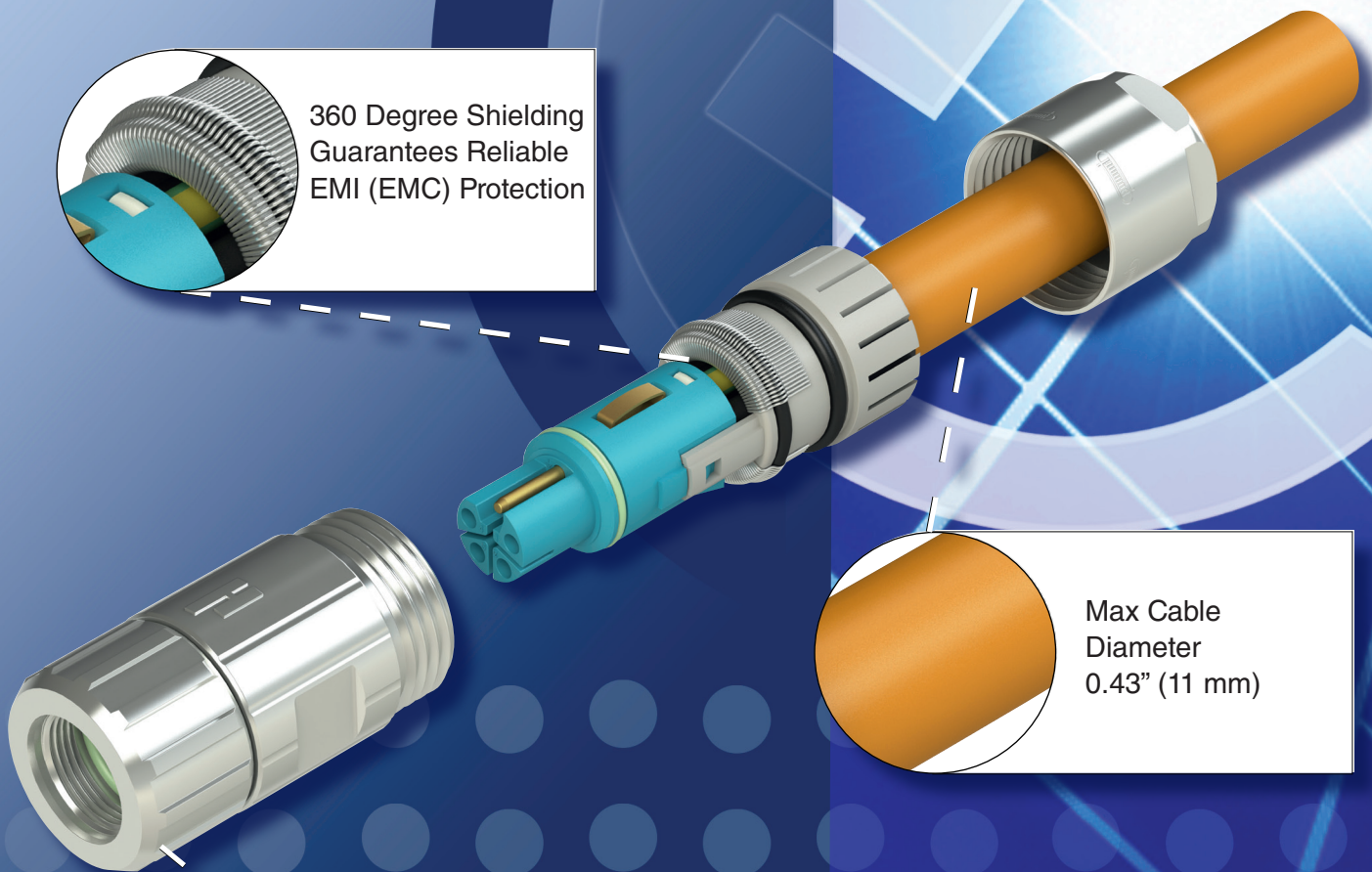
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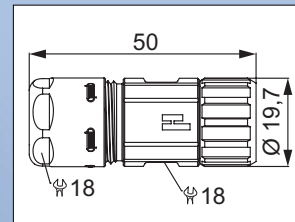
Circular Connectors - M12 Power Benefits at a Glance

- Power Transmission to 16 A and 630 V
- Temperature rating to 257°F (125°C)
- Cable assembly and braid shielding in a single operation
- Field attachable and molded options
- Internationally proven quality - Conforms to Global Norm IEC 60112-2
- Unique protection against cable twisting

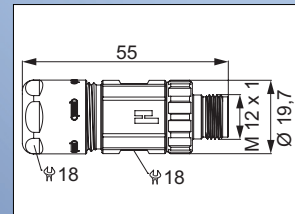




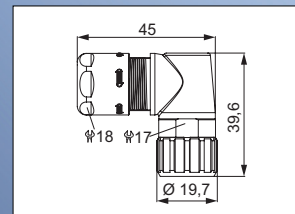
Straight Connector, Female Thread			
Size	Part Number	Cable Ø	Coding
M12	SA7127 K1030 0000	.12 - .24" (3 - 6 mm)	K, L (for 5 contact positions)
M12	SA7127 K1040 0000	.20 - .35" (5 - 9 mm)	K, L (for 5 contact positions)
M12	SA7127 K1050 0000	.31 - .43" (8 - 11 mm)	K, L (for 5 contact positions)
M12	SA7127 S1030 0000	.12 - .24" (3 - 6 mm)	S, T (for 4 contact positions)
M12	SA7127 S1040 0000	.20 - .35" (5 - 9 mm)	S, T (for 4 contact positions)
M12	SA7127 S1050 0000	.31 - .43" (8 - 11 mm)	S, T (for 4 contact positions)



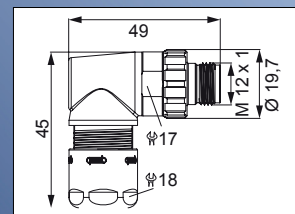
Straight Connector, Male Thread			
Size	Part Number	Cable Ø	Coding
M12	SA7127 K2030 0000	.12 - .24" (3 - 6 mm)	K, L (for 5 contact positions)
M12	SA7127 K2040 0000	.20 - .35" (5 - 9 mm)	K, L (for 5 contact positions)
M12	SA7127 K2050 0000	.31 - .43" (8 - 11 mm)	K, L (for 5 contact positions)
M12	SA7127 S2030 0000	.12 - .24" (3 - 6 mm)	S, T (for 4 contact positions)
M12	SA7127 S2040 0000	.20 - .35" (5 - 9 mm)	S, T (for 4 contact positions)
M12	SA7127 S2050 0000	.31 - .43" (8 - 11 mm)	S, T (for 4 contact positions)



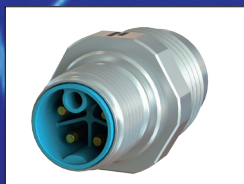
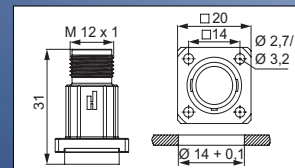
Right Angle Elbow Connector, Female Thread			
Size	Part Number	Cable Ø	Coding
M12	SA7127 K3030 0000	.12 - .24" (3 - 6 mm)	K, L (for 5 contact positions)
M12	SA7127 K3040 0000	.20 - .35" (5 - 9 mm)	K, L (for 5 contact positions)
M12	SA7127 K3050 0000	.31 - .43" (8 - 11 mm)	K, L (for 5 contact positions)
M12	SA7127 S3030 0000	.12 - .24" (3 - 6 mm)	S, T (for 4 contact positions)



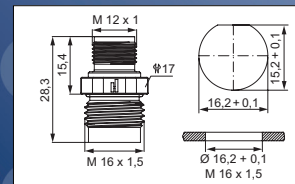
Right Angle Elbow Connector, Male Thread			
Size	Part Number	Cable Ø	Coding
M12	SA7127 K3130 0000	.11 - .23" (3 - 6 mm)	K, L (for 5 contact positions)
M12	SA7127 K3140 0000	.20 - .35" (5 - 9 mm)	K, L (for 5 contact positions)
M12	SA7127 K3150 0000	.31 - .43" (8 - 11 mm)	K, L (for 5 contact positions)



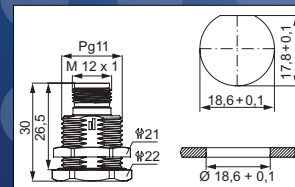
Panel Connector, w/ Flange		
Size	Part Number	Coding
M12	SA7127 K4000 0000	K, L (for 5 contact positions)
M12	SA7127 S4000 0000	S, T (for 4 contact positions)



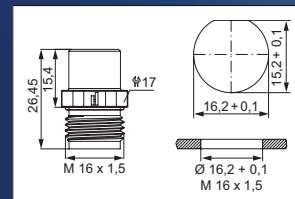
Panel Connector, Front Mount, Single Hole (M16)		
Size	Part Number	Coding
M12	SA7127 K420 00000	K, L (for 5 contact positions)



Panel Connector, Rear Mount, Single Hole (PG 11)		
Size	Part Number	Coding
M12	SA7127 K5000 0000	K, L (for 5 contact positions)
M12	SA7127 S5000 0000	S, T (for 4 contact positions)



Panel Connector, Front Mount, Single Hole, Female Thread (M16)		
Size	Part Number	Coding
M12	SA7127 K4400 0000	K, L (for 5 contact positions)



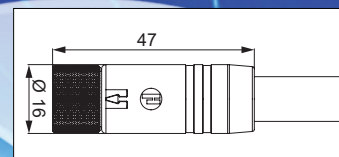
Panel Connector, Front Mount, Single Hole, Female Thread (M20)		
Size	Part Number	Coding
M12	SA7127 K4410 0000	K, L (for 5 contact positions)
M12	SA7127 S4410 0000	S, T (for 4 contact positions)

Circular Connectors - M12 Power Molded Cordsets / Accessories



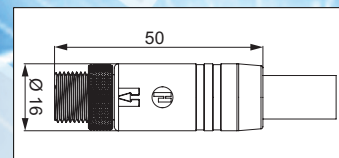
Straight Connector, Female Thread

Size	Cable Construction	Cable Jacket Options	Coding
M12	4G1,5	PUR or PVC	K, L, S, T
M12	4G1,5	Shielded / Unshielded	S, T
M12	5G0,75 / 5G1,5 / 5G2,5	Shielded / Unshielded	K, L



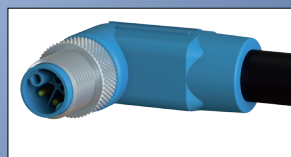
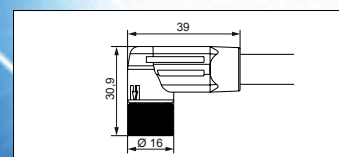
Straight Connector, Male Thread

Size	Cable Construction	Cable Jacket Options	Coding
M12	4G1,5	PUR or PVC	K, L, S, T
M12	4G1,5	Shielded / Unshielded	S, T
M12	5G0,75 / 5G1,5 / 5G2,5	Shielded / Unshielded	K, L



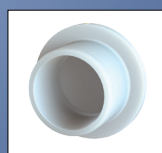
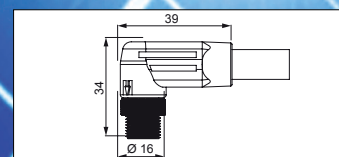
Right Angle Elbow Connector, Female Thread

Size	Cable Construction	Cable Jacket Options	Coding
M12	4G1,5	PUR or PVC	K, L, S, T
M12	4G1,5	Shielded / Unshielded	S, T
M12	5G0,75 / 5G1,5 / 5G2,5	Shielded / Unshielded	K, L



Right Angle Elbow Connector, Male Thread

Size	Cable Construction	Cable Jacket Options	Coding
M12	4G1,5	PUR or PVC	K, L, S, T
M12	4G1,5	Shielded / Unshielded	S, T
M12	5G0,75 / 5G1,5 / 5G2,5	Shielded / Unshielded	K, L



Plastic Protective Cap

Part Number	Type
SA7127 00098 0161	for connectors with Male Threads
SA7127 00098 0162	for connectors with Female Threads



Crimp Tool for Manual Crimping

Part Number	Type
S7000900908	for machined crimp contacts Signal connections M12, M16, and M23



Brass Protective Cap

Part Number	Type
SA7127 01090 0163	for connectors with Female Threads



Brass Protective Cap

Part Number	Type
SA7127 01090 0162	for connectors with Male Threads



Brass Protective Cap with Chain

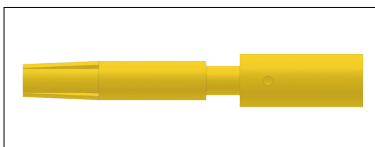
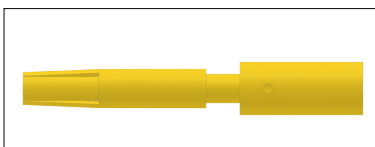
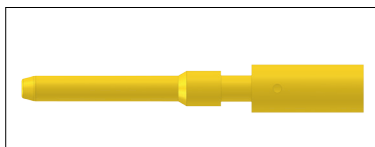
Part Number	Type
SA7127 01095 0705	for connectors with Female Threads Length 70 mm



Brass Protective Cap with Chain

Part Number	Type
SA7127 01095 0704	for connectors with Male Threads Length 70 mm

Contacts



* Special Order

Contacts - Pin

* Upon Request

Part Number	Crimp Range	AWG	Type
SA7127 01090 1521*	0.75 mm ²	18	Crimp pin 1.5 mm, machined
SA7127 01090 1531	1.50 mm ²	16	Crimp pin 1.5 mm, machined

Contacts - Socket

* Upon Request

Part Number	Crimp Range	AWG	Type
SA7127 01090 1522*	0.75 mm ²	18	Crimp socket 1.5 mm, machined
SA7127 01090 1532	1.50 mm ²	16	Crimp socket 1.5 mm, machined
SA7127 01090 1542	2.50 mm ²	14	Crimp socket 1.5 mm, machined

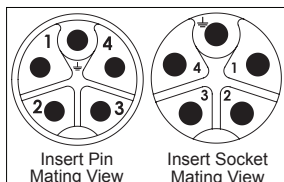
Contacts - Socket

Part Number	Crimp Range	AWG	Type
SA7127 01091 1522*	0.75 mm ²	18	Crimp socket 1.5 mm, machined PE
SA7127 01091 1532	1.50 mm ²	16	Crimp socket 1.5 mm, machined PE
SA7127 01091 1542	2.50 mm ²	14	Crimp socket 1.5 mm, machined PE

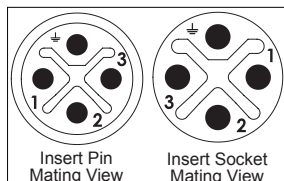
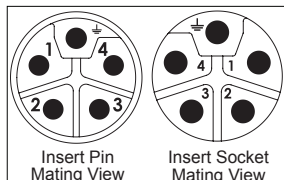
Crimp Tool Settings for Crimp Tool (Crimp Tool S7000900908)

Part Number	Crimp Contact	Cross Section (mm ²)	AWG	Crimp Tool Setting	Locator Setting
SA7127 01090 1531	Crimp pin 1.5 mm	1.5	16	1.45	P1
SA7127 01090 1541	Crimp pin 1.5 mm	2.5	14	1.70	P1
SA7127 01090 1532	Crimp socket 1.5 mm	1.5	16	1.45	P2
SA7127 01090 1542	Crimp socket 1.5 mm	2.5	14	1.70	P2
SA7127 01091 1532	Crimp socket 1.5 mm PE	1.5	16	1.45	P3
SA7127 01091 1542	Crimp socket 1.5 mm PE	2.5	14	1.70	P3

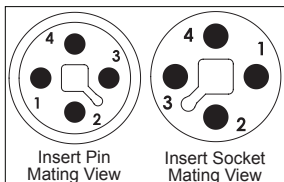
Inserts



16 AMPs



12 AMPs



Inserts K (Crimp)

Part Number	Type
SA7127 K0394 1101	Crimp insert, pins, 4 + PE without contacts Required contacts: 4 x pins, 1 x socket PE
SA7127 K0394 1102	Crimp insert, sockets, 4 + PE without contacts Required contacts: 4 x sockets, 1 x pin

630 Volts

Inserts L (Crimp)

Part Number	Type
SA7127 L0394 1101	Crimp insert, pins, 4 + PE without contacts Required contacts: 4 x pins, 1 x socket PE
SA7127 L0394 1102	Crimp insert, sockets, 4 + PE without contacts Required contacts: 4 x sockets, 1 x pin

63 Volts

Inserts S (Screw)

Part Number	Type
SA7127 S0593 1101	Crimp pin 3 + PE contacts with screw termination
SA7127 S0593 1102	Crimp socket 3 + PE contacts with screw termination

630 Volts

Inserts T (Screw)

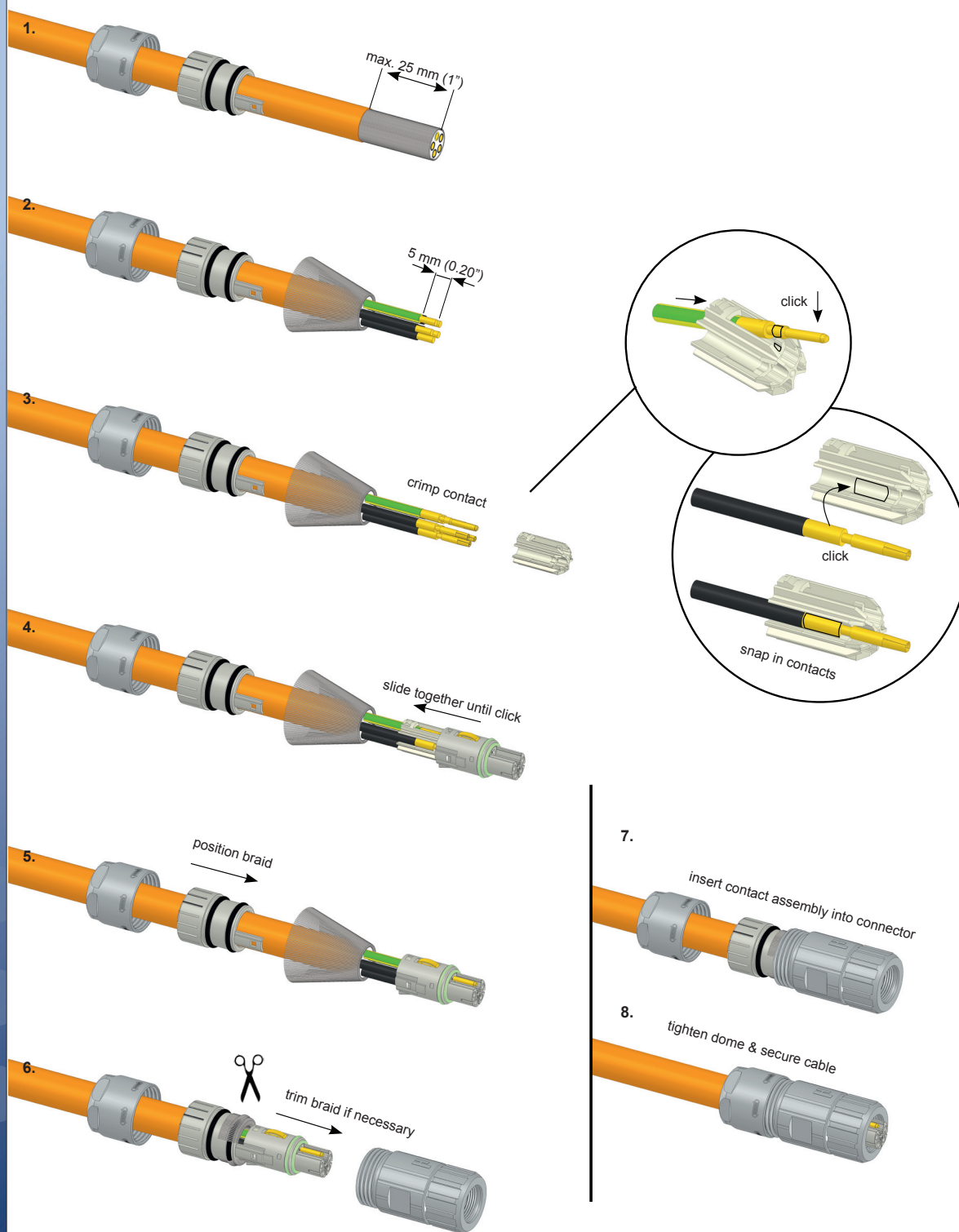
Part Number	Type
SA7127 T0590 4101	Crimp pin 4-pole contacts with screw termination
SA7127 T0590 4102	Crimp socket 4-pole contacts with screw termination

63 Volts

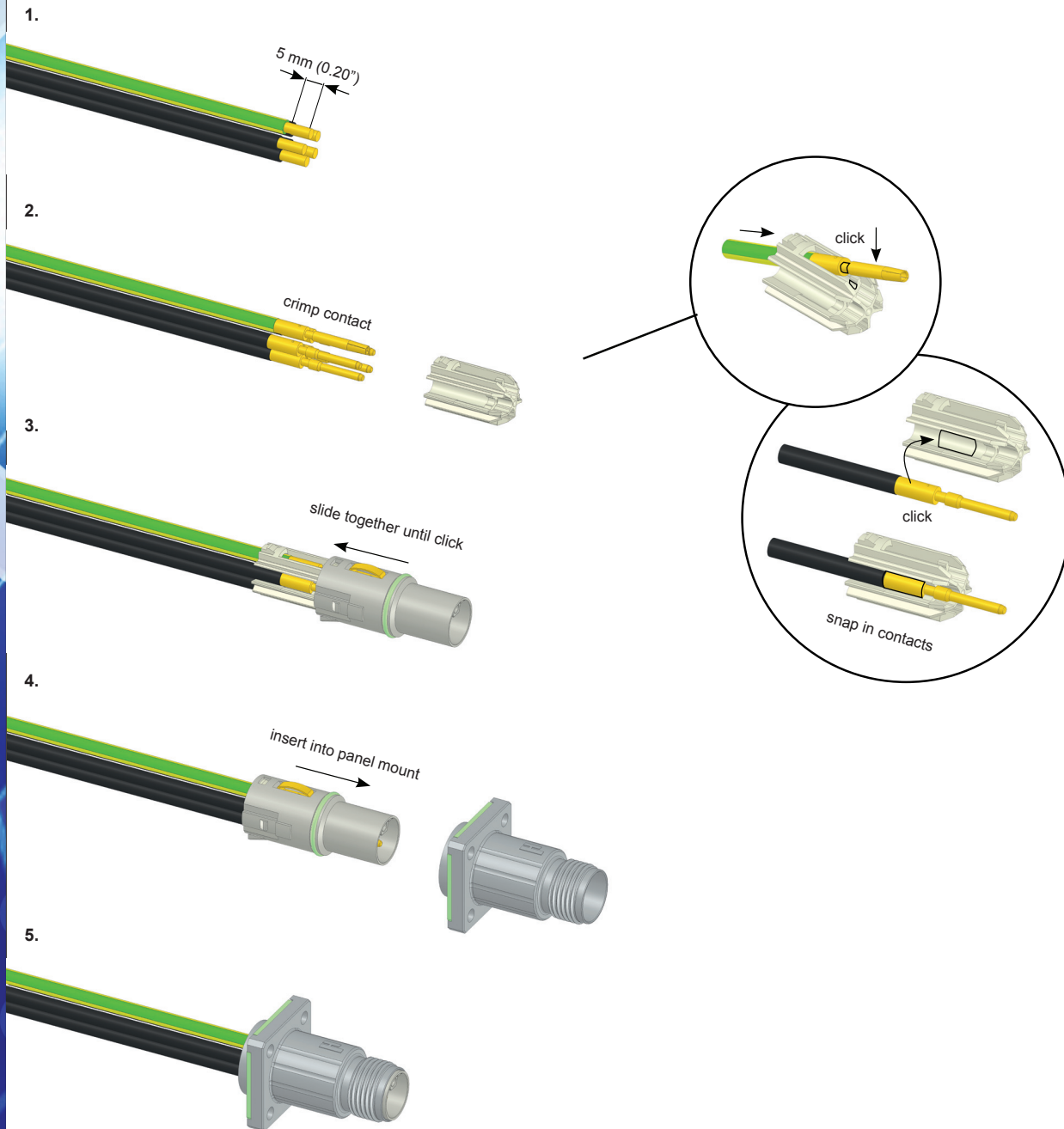
Circular Connectors - M12 Power

Assembly Instructions - Straight Connector

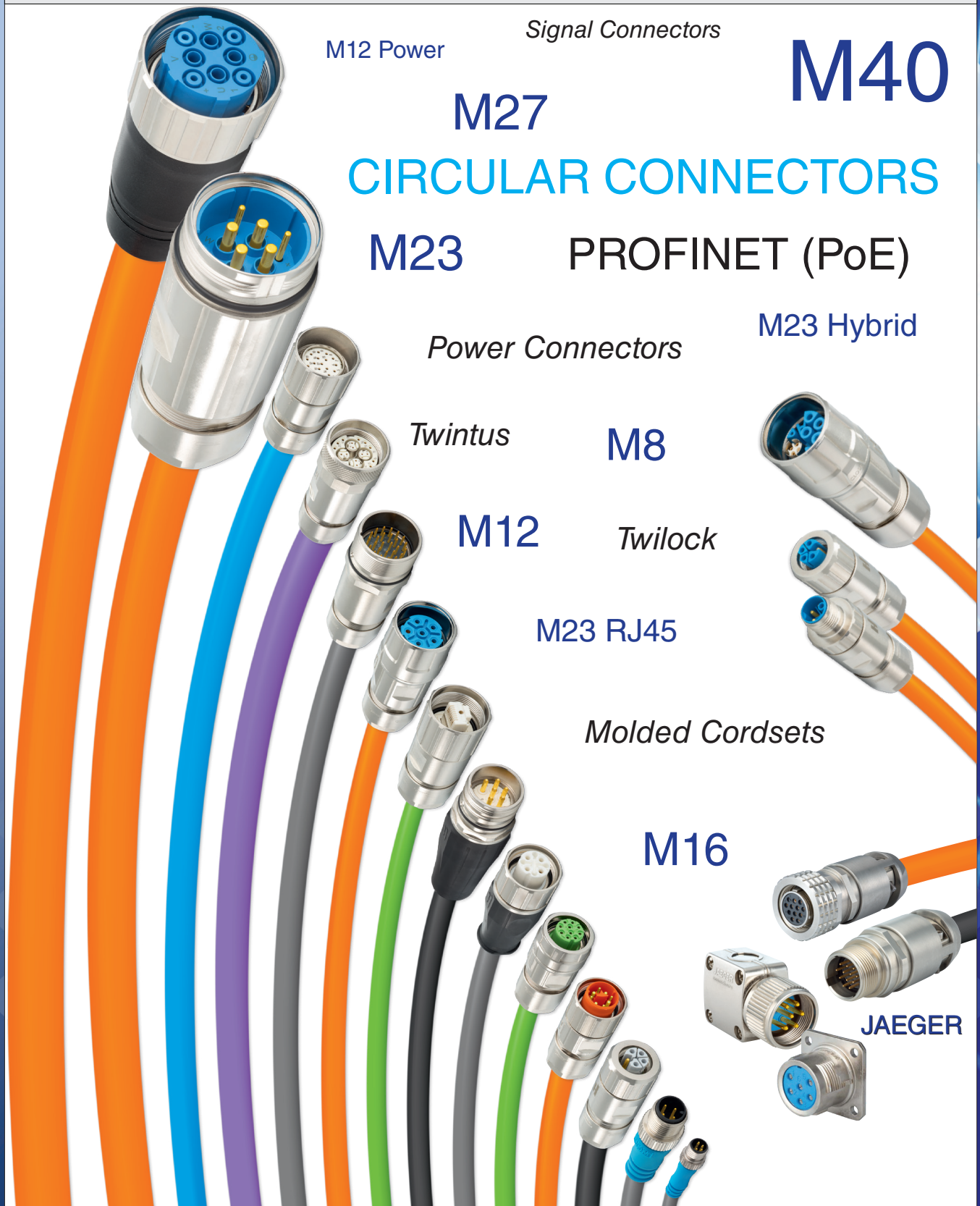
Straight Connector Female / Male Thread, K- / L-Coding (Crimp)

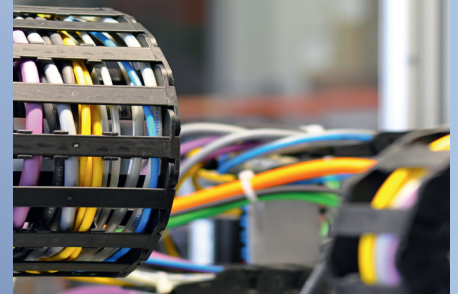
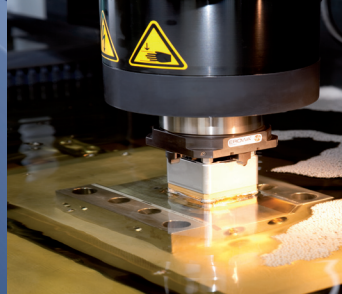
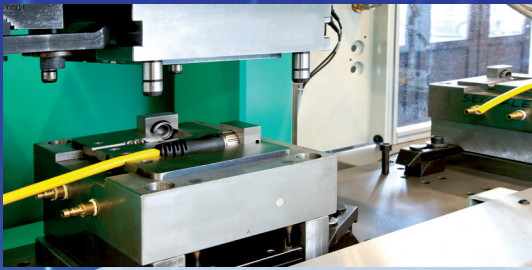


Panel Connector, K- / L-Coding (Crimp)



Circular Connector - Overview





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SEALCON

Leading Provider of Cable Management Solutions

7374 S. Eagle Street Centennial, CO 80112 USA

Toll Free: 800-456-9012 / 303-699-1135

Fax: 303-680-5344

Email: info@SealconUSA.com

Web: www.SealconUSA.com