

Connectors M 27



Product Overview

Housings page 98



Inserts page 99



Accessories page 101



Technical Data


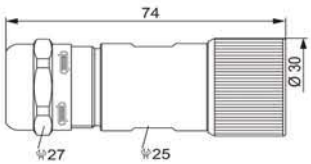

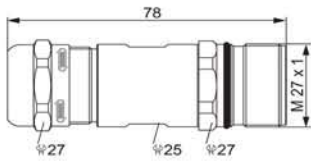

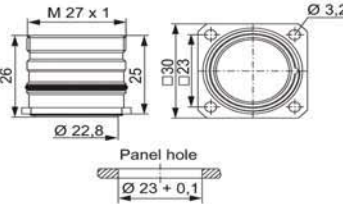
M 27 Signal Connectors

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated other surface upon request
Inserts (for contacts)	Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass Alloy
Contact surface at point of contact	Nickel and gold plated (0,25µm Au)
Minimum mating cycles	> 1000
Seals / O-Rings	Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)
Temperature range	-40° C – 125° C (-40° F – 257° F)
Type of contacts	Crimp, solder, dip-solder (PCB)
Protection	IP 67 / IP 69K per EN 60 529 (connected), NEMA 4x
Cable diameter range	7 – 17 mm (.28 – .67")

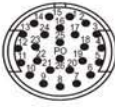

Electrical Data			
Number of positions		26	28
Number of contacts		26	28
Contact-Ø [mm]		1	1
Nominal current ¹⁾ [A]		8	8
Nominal voltage ²⁾ [V~]		150	150
Test voltage (Breakdown voltage) ³⁾ [V~]		1500	1500
Insulation resistance [MΩ]		> 10 ¹²	> 10 ¹²
Max. contact resistance [mΩ]		3	3
Degree of Protection ⁴⁾		3	3

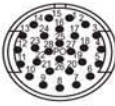

^{1), 2), 3), 4)} See Technical Informations page 14

Signal Connectors M 27 / Housing


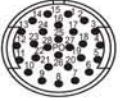
Straight Connector, Female Thread		Cable-Ø	Part Number
		7 – 12 mm (.28- .47")7.110.500.000	
		11 – 17 mm (.43- .67")7.110.600.000	
		Contacts and inserts page 99 • Assembly instructions page 103	
Straight Connector, Male Thread		Cable-Ø	Part Number
		7 – 12 mm (.28- .47")7.210.500.000	
		11 – 17 mm (.43- .67")7.210.600.000	
		Contacts and inserts page 99 • Assembly instructions page 103	
Panel Connector, Male Thread, front mounting		Type	Part Number
		4 x holes 3,2 mm7.410.700.000	
		Contacts and inserts page 99 • Assembly instructions page 104	



Signal Connectors M 27 / Housing

Type	Part Number	Part Number	Inserts 26-pole
Pinout clockwise	Pins	Sockets	
Insert with solder contacts	7.001.926.103	7.001.926.104	 Insert pin mating view
Insert without contacts.....	7.003.926.101	7.003.926.102	
Insert with dip solder contacts Length 3,5 mm	7.001.926.107		 Insert socket mating view
Insert with dip solder contacts Length 10 mm	7.001.926.127		
<p>The correct dimension of a connector with dip solder contacts depends on the particular type of housing.</p>			
Contacts page 100			

Type	Part Number	Part Number	Inserts 28-pole
Pinout clockwise	Pins	Sockets	
Insert with solder contacts	7.001.928.103	7.001.928.104	 Insert pin mating view
Insert with dip solder contacts Length 3,5 mm	7.001.928.107		
Insert with dip solder contacts Length 10 mm	7.001.928.127		 Insert socket mating view
<p>The correct dimension of a connector with dip solder contacts depends on the particular type of housing.</p>			
Contacts page 100			






Signal Connectors M27 / required contacts

Contact Arrangement	Number of Poles	Required Contacts
	26	26 x 1 mm
	28	28 x 1 mm

Contacts	Type	Crimp Range	Part Number
	Crimp pin 1 mm, machined	0,14 – 1 mm ² (AWG 26 – 17)	7.010.971.001
	Crimp socket 1 mm, machined ...	0,14 – 1 mm ² (AWG 26 – 17)	7.010.971.002

Crimp Tool Settings see page 102

Signal Connectors M 27 / Accessories

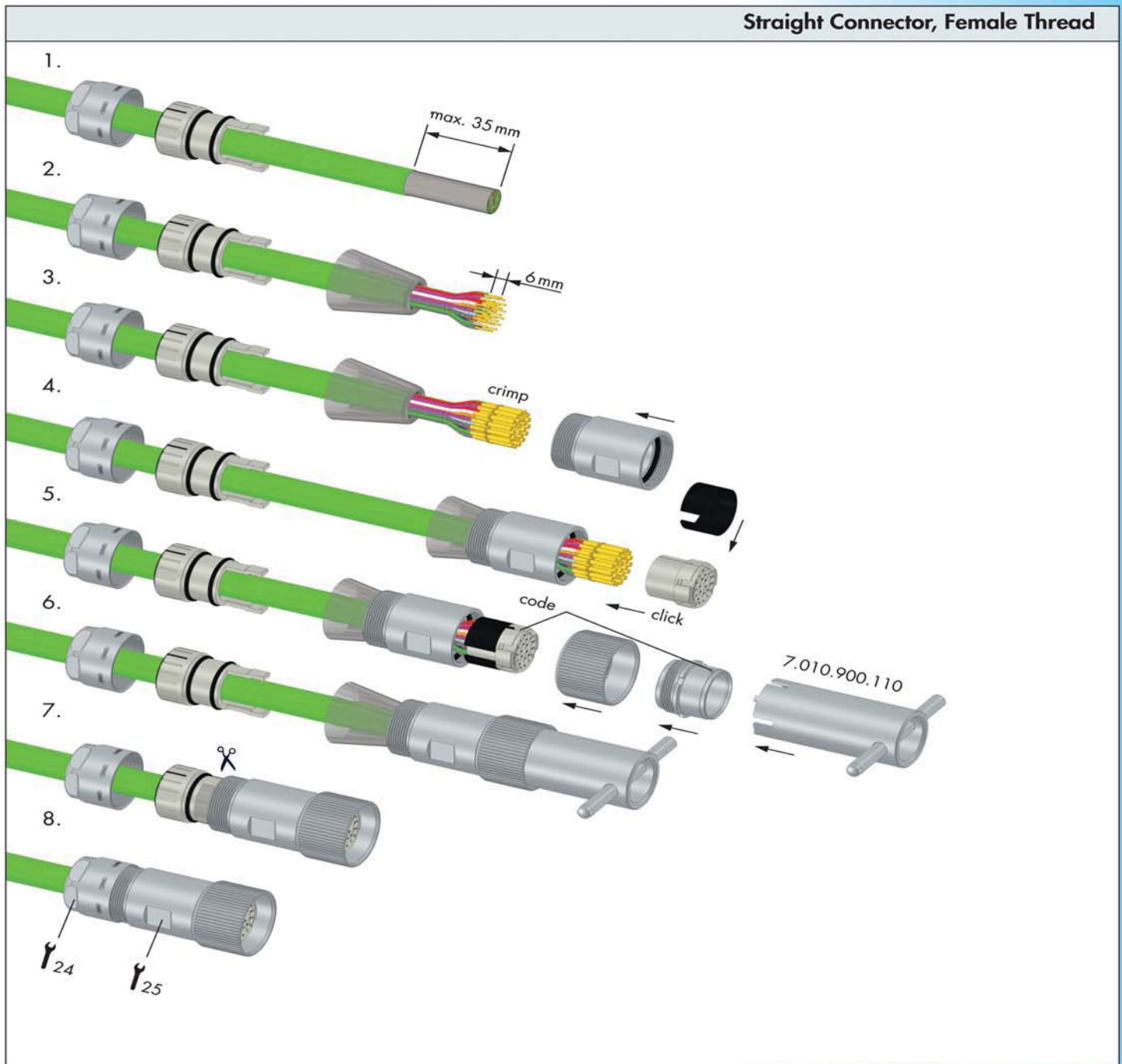
Type	Part Number	Accessories
Plastic protective cap for connectors with male thread	7.000.980.167	
for connectors with female thread	7.000.980.168	
Brass protective cap for connectors with female thread	7.010.900.169	
Brass protective cap with chain for connectors with female threadLength 70 mm	7.010.9S0.707	
Brass protective cap for connectors with male thread	7.010.900.170	
Brass protective cap with chain for connectors with male threadLength 70 mm	7.010.9S0.708	
Crimp tool for manual crimping of machined crimp contacts. Works with contacts for power or signal M 27.	7.000.900.901	
See page 118/119 for crimp tool instructions and page 102 proper setting		
Assembly tool	7.010.900.110	

Crimp Tool for Signal Connectors M 27

Crimp Tool Setting for HUMMEL Crimp Contacts (Crimp Tool 7.000.900.901)					
Part Number	Crimp Contact	Cross Section mm ²	AWG	Crimp Tool Setting mm	Locator Setting
7.010.971.001	Crimp pin (signal) 1 mm	0,14	26	0,70	1
		0,25	24	0,80	1
		0,34	22	0,88	1
		0,50	20	0,95	1
		0,75	18	1	1
		1	17	1,03	1
7.010.971.002	Crimp socket (signal) 1 mm	0,14	26	0,70	4
		0,25	24	0,80	4
		0,34	22	0,88	4
		0,50	20	0,95	4
		0,75	18	1	4
		1	17	1,03	4

Signal Connectors M27 / Assembly Instructions

Straight Connector, Female Thread



Signal Connectors M 27 / Assembly Instructions

