

M 27 SIGNAL CONNECTORS

M 27 signal connectors of HUMMEL AG are available in 26- or 28 pole type. It can be seen at the high protection class (IP 67 / IP 69K) and the large temperature range (up to + 125 °C) of these connectors.

- // M 27 connectors, male and female thread
- // Panel connectors
- // Large selection of accessories



Product overview

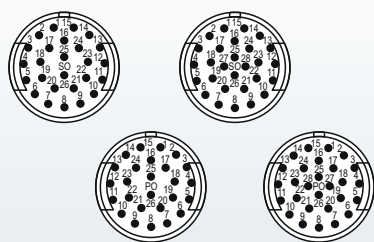
Housings

► 120



Inserts

► 121



Accessories

► 123



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 (0,25 µm)
Minimum mating cycles	50
Seals / O-Rings	Buna-N standard optional Viton® (FPM / FKM) (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 [Ω]	> 10 ¹²	> 10 ¹²
Max. contact resistance [mΩ]	3	3
Degree of Protection ⁴⁾	3	3

^{1), 2), 3), 4)} See Technical Information page 18



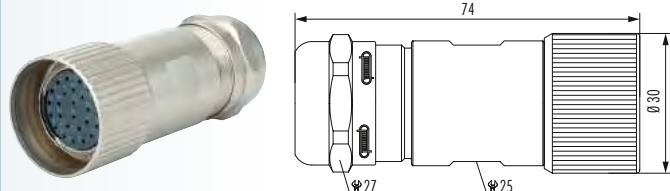
Housings

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



This Shell Requires Assembly Tool Part Number - 7.010.900.110

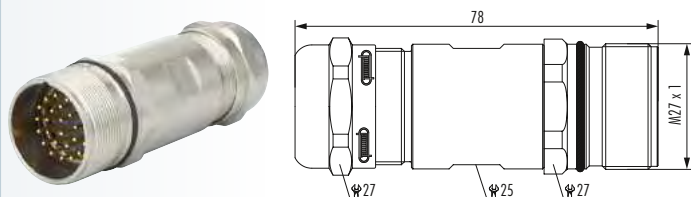


Straight Connector, Male Thread

Cable-Ø

Part Number

7 – 12 mm (.28 – .47")	7.210.500.000
11 – 17 mm (.43 – .67")	7.210.600.000

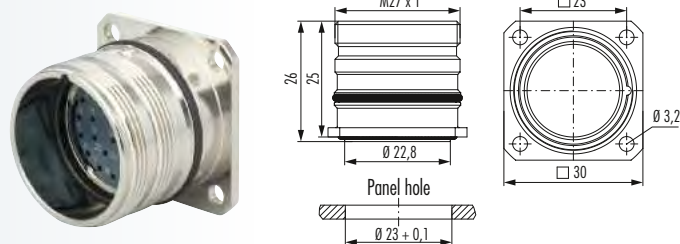


Panel Connector, Male Thread, front mounting

Type

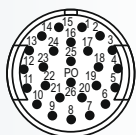
Part Number

4 x holes 3,2 mm	7.410.700.000
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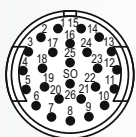




Inserts 26-pole



Insert pin mating view



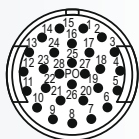
Insert socket mating view

Type	Part Number	Part Number
Pinout clockwise		
	Pins	Sockets
Insert with solder contacts.....	7.001.926.103	7.001.926.104
Insert without contacts	7.003.926.101	7.003.926.102
Insert with dip solder contacts		
Length 10 mm	7.001.926.127	

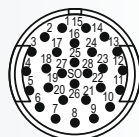
The correct dimension of a connector with dip solder contacts depends on the particular type of housing.



Inserts 28-pole



Insert pin mating view



Insert socket mating view

Type	Part Number	Part Number
Pinout clockwise		
	Pins	Sockets
Insert with solder contacts.....	7.001.928.103	7.001.928.104





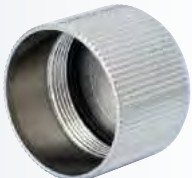
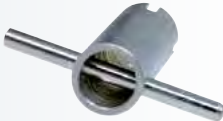
Required Contacts / Contacts

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

Contacts	Type	Crimp Range	Part Number
	Crimp pin 1 mm, machined.....	0,14 – 0,56 mm ² (AWG 26 – 17)	7.010.971.001
	Crimp socket 1 mm, machined.....	0,14 – 0,56 mm ² (AWG 26 – 17)	7.010.971.002





Accessories	Type	Part Number
	Plastic protective cap for connectors	
	with male thread	7.000.980.167
	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 thread	
	Length 70 mm	7.010.950.707
	Brass protective cap for connectors with male thread	7.010.900.170
	Brass protective cap with chain for connectors with male thread	
	Length 70 mm	7.010.950.708
	Crimp tool for manual crimping of machined crimp contacts	
	Works with contacts for power or signal	7.000.900.901 / 904
	 ▶ 124  ▶ 108 / 140	
	Assembly tool	7.010.900.110



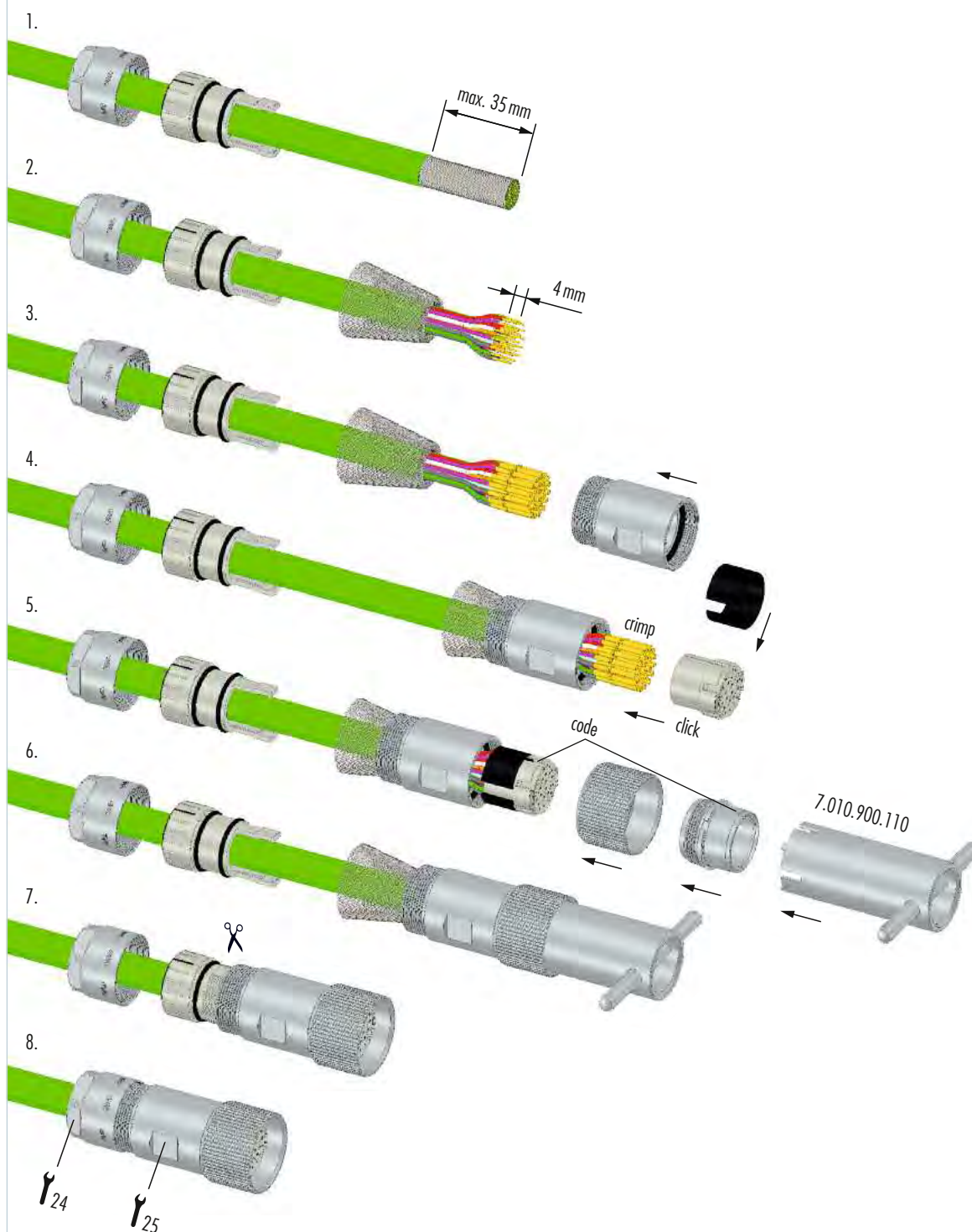
Crimp Tool Setting for HUMMEL Crimp Contacts (Crimp Tool 7.000.900.901)

Part Number	Crimp Contact	Cross Section (mm ²)	AWG	Crimp Tool Setting mm	Locator Setting
7.010.971.001	Crimp pin 1 mm, M 27	0,14	26	0,68	11
		0,22	24	0,70	11
		0,38	22	0,72	11
		0,56	20	0,74	11
7.010.971.002	Crimp socket 1 mm, M 27	0,14	26	0,68	12
		0,22	24	0,70	12
		0,38	22	0,72	12
		0,56	20	0,74	12

These values are only guidelines and actual conductor cross sections depend on manufacturer tolerances.



Straight Connector, Female Thread





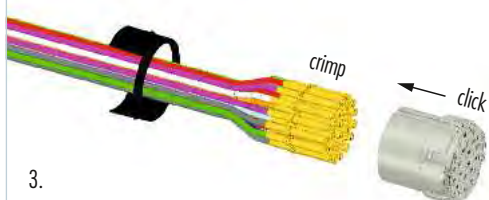
Assembly Instructions

Panel Connector

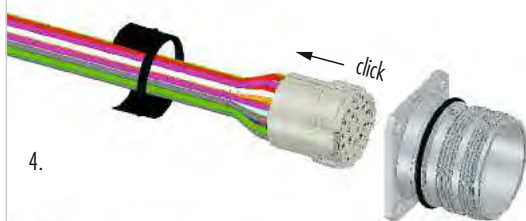
1.



2.



3.



4.

