

CIRCULAR CONNECTORS



SIGNAL // POWER // INDUSTRIAL ETHERNET





HUMMEL AG is a renowned manufacturer of connection technology and components for electric and heating areas. The medium sized family business stands for quality, precision, reliability and pronounced service consciousness. A wide vertical range of manufacture with in-house development, construction, toolmaking, manufacturing, electroplating and assembling from a single source, offers best conditions for implementing individual solutions.



connections

Connectors M 16

► 11



Connectors M 16 INOX

► 14, 15, 16, 26



HUMMEL Highlights: product features

► 6

Technical Information

► 10

HUMMEL International

► 30



Housing



Inserts / Pinouts



Contacts



Accessories

Further information can be found in our Technical Centre at www.hummel.com



- // Assembly instructions
- // Crimping, assembly, disassembly
- // Crimping tool instructions for use
- // Crimp settings
- // Coding
- // Certificates & approvals
- // Derating curves

<https://www.hummel.com/en/circular-connectors/technical-center>



HUGE RANGE: M 12 – M 40



M 12 Power

M 23

Signal Connectors

Power Connectors

CIRCULAR CONNECTORS

PROFINET

Customized Solutions

Industrial Ethernet

M 16

M 23 RJ 45

M 40

M 23 Hybrid

TWILOCK

Moulded Cordsets



Germanischer Lloyd



RoHS

File-No. E 213337

TWILOCK / TWILOCK-S

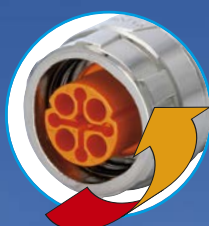
- // Quick Connect with Polygon Lock
- // Multi functional: Ideal with TWILOCK and screw connection
- // Easy handling, exceptional functionality
- // Resistant to vibration



Clearly defined:
OPEN – CLOSE



Multi functional: Special thread
allows use of TWILOCK and
screw connection



Locking with a slight rotation
or release of the connection

TWILOCK



M16 HC: Same performance, less space required

Efficiency, sustainability and miniaturization are present industrial trends. Applications are getting more compact while in decreasing installation spaces the same or even more power has to be accommodated. The high performance-connector M16 HC fully meets these performance requirements. This connector is about one third smaller than the comparable M23 connectors, but at the same time capable of transmitting the same power-currents. The M16-HC-Connectors are available in numerous housing designs such as overmoulded, PCB or stainless steel versions.

- // High power transmission up to 25 A
- // Less space required
- // Cost-optimised assembly directly on the PCB possible
- // UL approval
- // Higher energy efficiency

M16HC

	Signal	Power DC	Power AC
Number of contacts	4	4	3+PE
Contact-Ø [mm]	0,8	1,6	1,6
AWG [mm²]	0,08 - 0,34	2,5	2,5
Nominal current	5 A	25 A	25 A
Nominal voltage	48 V	48 V	320 V



Connector 4 small drives

TWINTUS

TWINTUS: Connector 4 small Drives

The TWINTUS connectors combines high power performance with low space requirements in only one housing. Herewith TWINTUS offers an economically attractive solution even to the smallest servomotors. Based on the dimensions of only 22 mm height and with a width of 41 mm it can be assembled in tight and limited spaces, fully fulfilling the requirements of the miniaturization trend.

The connector-systems of HUMMEL are offering a modular setup. Housing and inserts can be combined within their particular product line. For TWINTUS this results in plenty of combinations with the available M16 inserts. In addition, M12 sockets are available for signal transmission in 8-pin or 12-pin version.

- // Minimized Size
- // Free choice of Signal and Power Inserts
- // Flange 20 x 20 and 25 x 25



Colour coded inserts
(DESINA colour code)



IP 67 (NEMA 4x) self sealing,
even for threaded holes



Version M 16 / M 12 available

Rated current

The **rated current** is the current that each contact of a connection can simultaneously transfer continuously.

Rated voltage

The **rated voltage** is the voltage for which a connector is designed. In operation, the rated voltage is the maximum continuously applied voltage.

Functional earth (FE)

Functional earth is an electrical conductor to ensure the functions and thus normal operation of installations and devices.

Functional earthing conductor: Earthing conductor provided for functional earthing.

Functional earthing: Earthing a point or points in a system or in an installation or in equipment, for purposes other than electrical safety.

Protective earth (PE)

Protective earth is an electrical conductor provided for the purposes of safety, for protection against electric shock. It is also called an earth conductor, earthing or "earth" for short. Its task in electric systems is to protect living beings in case of a fault.

PE conductor: Protective earth for the purposes of protective earthing

Protective earthing: Earthing a point or points in a system or in an installation or in equipment for purposes of electrical safety.

Contact overlapping

The **contact overlapping** or wipe length of connectors generally denotes the possible overlap area of the pin and receptacle. The greater this area, the more reliable the connection is due to higher possible tolerance allowance (tolerance compensation).

To ensure the IP degree of protection and the necessary contact overlapping, at HUMMEL the cable and coupling connectors must be fully engaged and locked.

Test voltage

The **test voltage** is the voltage that a connector must withstand under certain specifications without flashover or disruptive discharge via or through the insulation and at least corresponds to the r.m.s. withstand voltage in EN 61984.

The value of the test voltage is higher than the rated withstand voltage and serves to verify the dielectric strength of the connector.

Connectors

Connectors that are designed to be engaged or disengaged in normal use when live or under load. These are also called connectors with breaking capacity (CBC). A classic example in households is the SCHUKO plug (earthed 2-pin plug).

Connectors that are not deemed to be engaged or disengaged in normal use when under load or live are also named COC (connectors without breaking capacity).

HUMMEL connectors are usually classified as COC, i.e. they may not be engaged or disengaged when live or under load!

Mating Cycles

One insertion and withdrawal (engaging and disengaging) of connectors is called a mating cycle (also called a cycle of mechanical operation or engaging cycle). The number of mating cycles is an important characteristic for connectors and plugs. It defines the life of a connector during which there is no loss in its transfer/transmission quality. The number of mating cycles is influenced above all by the quality of the contact surface. Use of high-quality and durable contact coatings reduces surface abrasion on mating.

Pollution degree

The **pollution degree** is a numerical value that indicates the level of pollution expected in the micro-environment and is a parameter used in the design of clearances and creepage distances of electrical equipment. It denotes the potential pollution of an open, unengaged connector in a specific environment. The EN 60664-1 standard differentiates between four categories:

- **Pollution degree 1:** No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
- **Pollution degree 2:** Only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected. (typical for households, business premises, laboratories or test areas.)
- **Pollution degree 3:** Conductive pollution occurs or dry non-conductive pollution occurs, which becomes conductive due to condensation which is to be expected. (typical for industrial firms or workshops.)
- **Pollution degree 4:** Continuous conductivity occurs due to conductive dust, rain or other wet conditions. If connectors are used under a higher pollution degree, the voltage values must be reduced. Contact our technical specialists to find out more.

Safety note

In case of operating voltages greater than 50 volt, the connectors listed in this catalogue must be used with conducting housing parts in accordance with the safety provisions of DIN VDE 0100-410; IEC 60364-4-41. These safety provisions specify that relevant connectors may not be engaged or disengaged when live. Otherwise, no protection against electric shock is ensured.



Further information is available on our website:

<https://www.hummel.com/en/circular-connectors/technical-center-circular-connectors/general-technical-information>



HUMMEL connectors may not be engaged or disengaged when live or under load. To ensure the IP degree of protection (IP rating) and the necessary contact overlapping, the cable and coupling connectors must be fully engaged and locked.

M 16 CONNECTORS

Traditionally M 16 Connectors are very popular with its users. The reason for that is high capability with a low space requirement. A special version is TWINTUS. This compact connector is able to combine signal and power for small drives within one housing.

- // M 16 power connector
- // M 16 signal connector
- // TWILOCK, quick release fastener
- // TWINTUS – Connector 4 small drives



Product overview

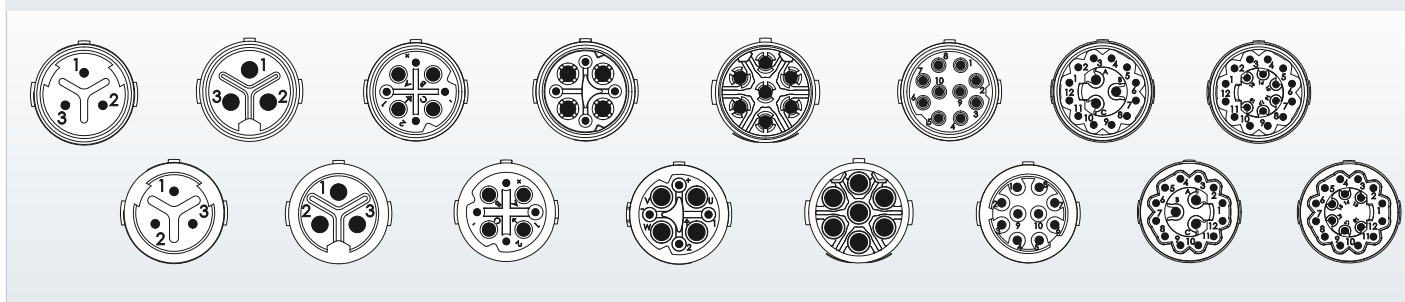
Housings

► 14



Inserts

► 19



Accessories

► 26



Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated (Standard), 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	> 1000*
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, dip-solder (PCB) (for printed circuit boards)
Protection	IP 67 / IP 69K per EN 60 529 (connected), NEMA 4x
Cable diameter range	2 – 11 mm (.08 – .43")

Electrical Data						
Number of positions	3 (3 x 1 mm)	3 (3 x 2 mm)	4 + 3 + PE / 320 V		4 + 3 + PE / 600 V	
Number of contacts	3	3	4	4	4	4
Contact-Ø [mm]	1	2	0,8	1,6	0,8	1,25
AWG [mm²]	0,14 – 1	0,5 – 2,5	0,08 – 0,34	0,34 – 1,5	0,08 – 0,34	0,5 – 1,5
Nominal current ¹⁾ [A]	8	20	5	16	5	16
Nominal voltage ²⁾ [V~] *)	250	250	160	320	160	600
Rated Surge Voltage [V~]	2500	2500	2500	2500	2500	4000
Test voltage (Breakdown voltage) ³⁾ [V~]	1500	1500	1500	1500	1500	2500
Insulation resistance [Ω]	> 10 ⁸	> 10 ⁸	> 10 ⁸		> 10 ⁸	
Max. contact resistance [mΩ]	3	3	3	3	3	3
Number of positions	6+PE	10	12 + 3		18	
Number of contacts	7	10	12	3	18	
Contact-Ø [mm]	1,25	1	0,8	1,25	0,8	
AWG [mm²]	0,5 – 1,5	0,14 – 0,75	0,08 – 0,34	0,5 – 1,5	0,08 – 0,34	
Nominal current ¹⁾ [A]	16	8	3	10	3	
Nominal voltage ²⁾ [V~] *)	500	40	24	60	24	
Rated Surge Voltage [V~]	2500	800	800	1500	800	
Test voltage (Breakdown voltage) ³⁾ [V~]	1500	500	400	840	400	
Insulation resistance [Ω]	> 10 ⁸	> 10 ⁸	> 10 ⁸		> 10 ⁸	
Max. contact resistance [mΩ]	3	3	3	3	3	
Number of positions 	4 + 3 + PE / 320 V (HC)		4 + 4 (HC)			
Number of contacts	4	4	4	4		
Contact-Ø [mm]	0,8	1,6	0,8	1,6		
AWG [mm²]	0,08 – 0,34	2,5	0,08 – 0,34	2,5		
Nominal current ¹⁾ [A]	5	25	5	25		
Nominal voltage ²⁾ [V~] *)	48	320	48	48 (DC)		
Rated Surge Voltage [V~]	2500	2500	2500	2500		
Test voltage (Breakdown voltage) ³⁾ [V~]	1500	1500	1500	1500		
Insulation resistance [Ω]	> 10 ⁸		> 10 ⁸			
Max. contact resistance [mΩ]	3	3	3	3		

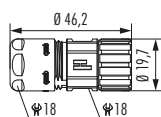
Housings

Straight Connector, Female Thread

Cable-Ø

Part Number

3 – 6 mm	7.810.300.000
5 – 9 mm	7.810.400.000
8 – 11 mm	7.810.500.000

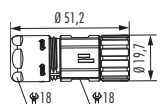


Straight Connector, Female Thread / elongated*

Cable-Ø

Part Number

3 – 6 mm	7.811.300.000
5 – 9 mm	7.811.400.000
8 – 11 mm	7.811.500.000

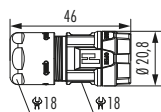


Straight Connector, Female Thread TWILOCK

Cable-Ø

Part Number

3 – 6 mm	7.816.300.000
5 – 9 mm	7.816.400.000
8 – 11 mm	7.816.500.000

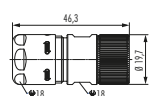


Straight Connector, Female Thread INOX

Cable-Ø

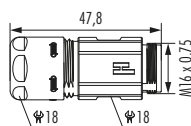
Part Number

3 – 6 mm	7.814.300.000
5 – 9 mm	7.814.400.000
8 – 11 mm	7.814.500.000



Housing without inserts and contacts

Straight Connector, Male Thread



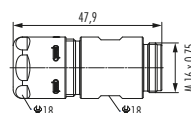
Cable-Ø

Part Number

3 – 6 mm	7.820.300.000
5 – 9 mm	7.820.400.000
8 – 11 mm	7.820.500.000



Straight Connector, Male Thread INOX



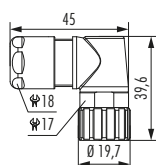
Cable-Ø

Part Number

3 – 6 mm	7.824.300.000
5 – 9 mm	7.824.400.000
8 – 11 mm	7.824.500.000



Right Angle Connector with positioning



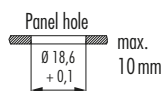
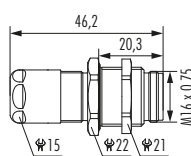
Cable-Ø

Part Number

3 – 6 mm	7.831.300.000
5 – 9 mm	7.831.400.000
8 – 11 mm	7.831.500.000



Panel Connector with built in Cable Strain Relief



Cable-Ø

Part Number

Rear mounting, single hole mounted	
2 – 7 mm	7.852.300.000
5 – 9 mm	7.852.400.000

Including jam nut PG 11



Housings

Panel Connector with built in Cable Strain Relief

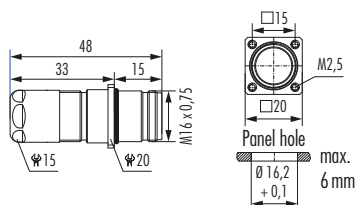
Cable-Ø

Part Number

Rear mounting, M 2,5 x 4 single hole mounted

2 – 7 mm7.847.300.000

5 – 9 mm7.847.400.000



Panel Connector, Male Thread, Front Mounting

Type

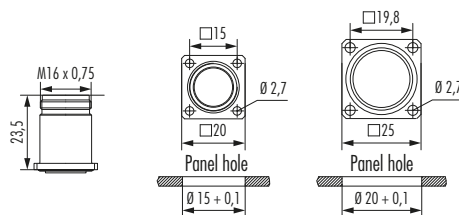
Part Number

4 x holes Ø 2,7 mm (.11")7.840.000.000

Flange 20 x 20 mm

4 x holes Ø 2,7 mm (.11")7.840.100.000

Flange 25 x 25 mm



Panel Connector, Male Thread, Front Mounting

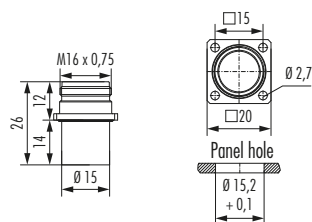
Type

Part Number

Short version

4 x holes Ø 2,7 mm (.11")7.840.200.000

Flange 20 x 20 mm



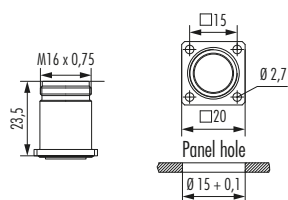
Panel Connector, Male Thread INOX

Type

Part Number

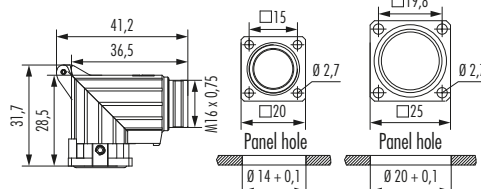
4 x holes Ø 2,7 mm (.11")7.840.400.000

Flange 20 x 20 mm


INOX
STAINLESS STEEL


Housing without inserts and contacts

Right Angle Panel Connector, Male Thread, rotatable



Type

Part Number

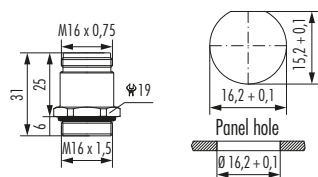
300° rotatable, locking screw at flange

4 x holes Ø 2,7 mm (.11")7.843.000.000
Flange 20 x 20 mm

4 x holes Ø 2,7 mm (.11")7.843.100.000
Flange 25 x 25 mm



Panel Connector, Male Thread, Front Mounting



Type

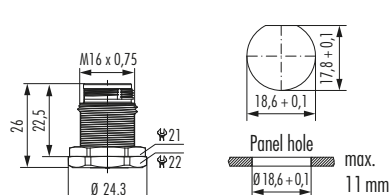
Part Number

Front mounting, single hole mounted

Thread M 16 x 1,57.842.000.000



Panel Connector, Male Thread, Rear Mounting



Type

Part Number

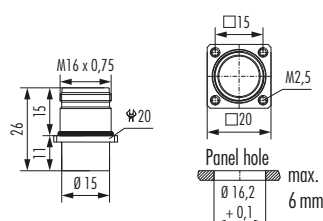
Rear mounting, single hole mounted

Including jam nut7.850.000.000

Including jam nut PG 11



Panel Connector, Male Thread, Rear Mounting



Type

Part Number

Rear mounting, 4 x thread M 2,5

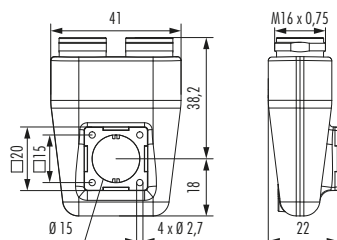
Flange 20 x 20 mm7.845.000.000



Housing without inserts and contacts

Housings M 16

TWINTUS



Type

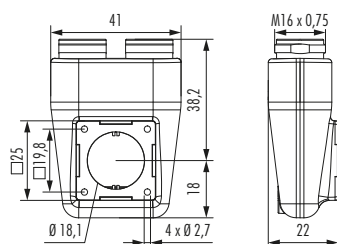
Part Number

Flange 20 x 20 mm

Uncoated.....	7.848.000.000
Surface nickel plated.....	7.848.000.001
Surface black conductive.....	7.848.000.00B



TWINTUS



Type

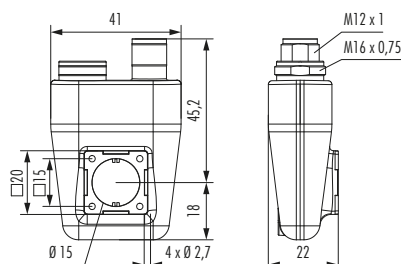
Part Number

Flange 25 x 25 mm

Uncoated.....	7.848.100.000
Surface nickel plated.....	7.848.100.001
Surface black conductive.....	7.848.100.00B



TWINTUS M 16 / M 12



Type

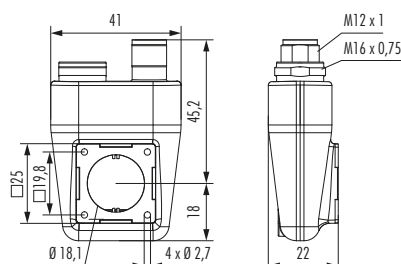
Part Number

Flange 20 x 20 mm

Uncoated.....	7.848.200.000
Surface nickel plated.....	7.848.200.001
Surface black conductive.....	7.848.200.00B



TWINTUS M 16 / M 12



Type

Part Number

Flange 25 x 25 mm

Uncoated.....	7.848.300.000
Surface nickel plated.....	7.848.300.001
Surface black conductive.....	7.848.300.00B



Housing without inserts and contacts

Inserts 3-pole (3 x 1 mm)

Type

Part Number

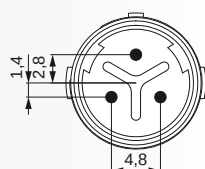
Part Number



Insert pin mating view



Insert socket mating view



	Pins	Sockets
Insert without contacts	7.003.903.101	7.003.903.102
Insert with dip solder contacts		
Length 10 mm	7.001.903.127	7.001.903.108
Insert with dip solder contacts		
Length 17 mm	7.001.903.137	7.001.903.118
Required Contacts		
3 x 1 mm	7.010.901.001	7.010.901.002 / 7.010.901.012

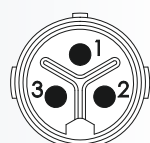
▶ 24

Inserts 3-pole (3 x 2 mm)

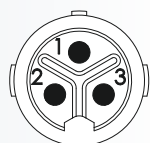
Type

Part Number

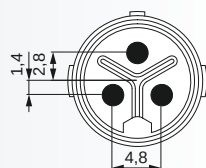
Part Number



Insert pin mating view



Insert socket mating view

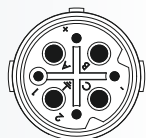


	Pins	Sockets
Insert without contacts	7.003.983.101	7.003.983.102
Insert with dip solder contacts		
Length 10 mm	7.001.983.127	7.001.983.108
Insert with dip solder contacts		
Length 17 mm	7.001.983.137	7.001.983.118
Required Contacts		
3 x 2 mm	7.010.982.001	7.010.982.002

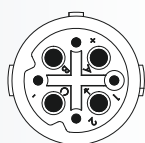
▶ 24

Inserts / Pinouts

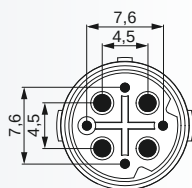
Inserts 4+3+PE, 320 V



Insert pin mating view



Insert socket mating view



Type

Part Number

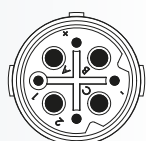
Part Number

	Pins	Sockets
Insert without contacts	7.003.943.101	7.003.943.102
Insert RAL 2003 (DESINA orange) without contacts	7.053.943.101	7.053.943.102
Insert with dip solder contacts		
Length 10 mm	7.001.943.127	7.001.943.108
Insert with dip solder contacts		
Length 17 mm	7.001.943.137	7.001.943.118
Required Contacts		
4 x 0,8 mm	7.010.980.801	7.010.980.802
4 x 1,6 mm	7.010.981.601	7.010.981.602
Version HC – Required Contacts		
4 x 0,8 mm	7.010.980.801	7.010.980.802
4 x 1,6 mm	7.011.981.601	7.011.981.602

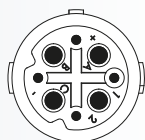


▶ 24

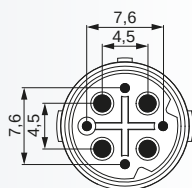
Inserts 4+4 HC



Insert pin mating view



Insert socket mating view

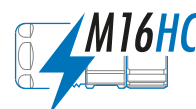


Type

Part Number

Part Number

	Pins	Sockets
Insert without contacts	7.003.944.101	7.003.944.102
Insert with dip solder contacts		
Length 10 mm	7.011.944.127	
Required Contacts		
4 x 0,8 mm	7.010.980.801	7.010.980.802
4 x 1,6 mm	7.011.981.601	7.011.981.602



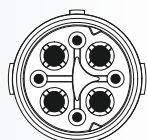
▶ 24

Inserts 4+3+PE, 600 V

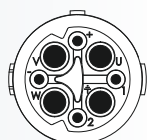
Type

Part Number

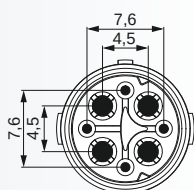
Part Number



Insert pin mating view



Insert socket mating view



	Pins	Sockets
Insert without contacts	7.003.908.101	7.003.908.102
Insert RAL 2003 (DESINA orange) without contacts	7.053.908.101	7.053.908.102
Required Contacts		
4 x 0,8 mm	7.010.980.811	7.010.980.814
4 x 1,25 mm	7.010.981.211	7.010.981.212

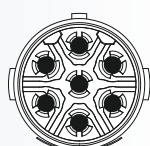
¹⁾ under development

Inserts 6+PE

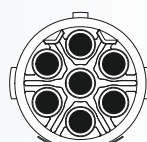
Type

Part Number

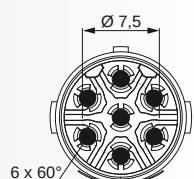
Part Number



Insert pin mating view



Insert socket mating view

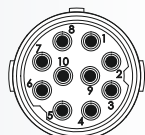


	Pins	Sockets
Insert without contacts	7.003.961.101	7.003.961.102
Insert RAL 2003 (DESINA orange) without contacts	7.053.961.101	7.053.961.102
Required Contacts		
7 x 1,25 mm	7.010.981.211	7.010.981.212

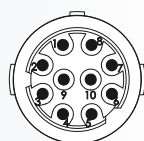
¹⁾ under development

Inserts / Pinouts

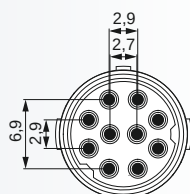
Inserts 10-pole



Insert pin mating view



Insert socket mating view



Type

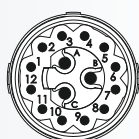
Part Number

Part Number

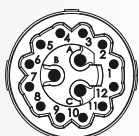
	Pins	Sockets
Insert without contacts	7.003.910.101	7.003.910.102
Insert RAL 2003 (DESINA green) without contacts.....	7.053.910.101	7.053.910.102
Insert with dip solder contacts		
Length 10 mm	7.001.910.127	7.001.910.108
Insert with dip solder contacts		
Length 17 mm	7.001.910.137	7.001.910.118
Required Contacts		
10 x 1 mm	7.010.981.001	7.010.981.002

¹⁾ under development

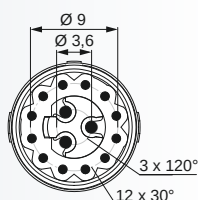
Inserts 12+3-pole



Insert pin mating view



Insert socket mating view



Type

Part Number

Part Number

	Pins	Sockets
Insert without contacts	7.003.985.101	7.003.985.102
Insert with dip solder contacts		
Length 10 mm	7.001.985.127	7.001.985.108
Insert with dip solder contacts		
Length 17 mm	7.001.985.137	7.001.985.118
Required Contacts		
12 x 0,8 mm	7.010.980.801	7.010.980.802
3 x 1,25 mm	7.010.981.201	7.010.981.202



Inserts 18-pole

Type

Part Number

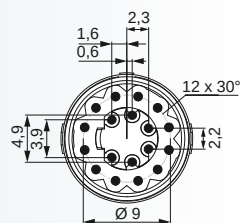
Part Number



Insert pin mating view



Insert socket mating view



	Pins	Sockets
Insert without contacts	7.003.988.101	7.003.988.102
Insert RAL 2003 (DESINA green) without contacts.....	7.053.988.101	7.053.988.102
Insert with dip solder contacts		
Length 10 mm	7.001.988.127	7.001.988.108
Insert with dip solder contacts		
Length 17 mm	7.001.988.137	7.001.988.118
Required Contacts		
18 x 0,8 mm	7.010.980.801	7.010.980.802



Inserts M 12 for TWINTUS M 16 / M 12 (8-poles)

Type

Part Number



Insert pin mating view

	Pins
Insert with solder contacts	A712-7.001.908.103

Inserts M 12 for TWINTUS M 16 / M 12 (12-poles)

Type

Part Number



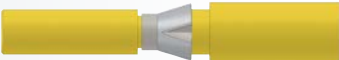
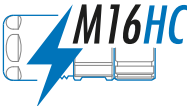
Insert pin mating view

	Pins
Insert with solder contacts	A712-7.001.912.103

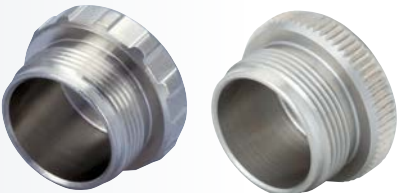


Contacts

Contacts	Type	Crimp Range	Part Number
	Crimp pin 0,8 mm, machined	0,08 – 0,34 mm ² (AWG 28 – 22)	7.010.980.801
	Crimp socket 0,8 mm, machined	0,08 – 0,34 mm ² (AWG 28 – 22)	7.010.980.802
	Crimp pin 0,8 mm, machined	0,08 – 0,34 mm ² (AWG 28 – 22)	7.010.980.811
	Crimp socket 0,8 mm, machined	0,08 – 0,34 mm ² (AWG 28 – 22)	7.010.980.814
	Crimp pin 1 mm, machined	0,08 – 0,75 mm ² (AWG 28 – 18)	7.010.981.001
	Crimp socket 1 mm, machined	0,08 – 0,75 mm ² (AWG 28 – 18)	7.010.981.002
	Crimp pin 1 mm, machined	0,14 – 1 mm ² (AWG 26 – 17)	7.010.901.001
	Crimp socket 1 mm, machined	0,08 – 0,56 mm ² (AWG 28 – 20)	7.010.901.012
	Crimp socket 1 mm, machined	0,34 – 1 mm ² (AWG 22 – 17)	7.010.901.002
	Crimp pin 1,25 mm, machined	0,5 – 1,5 mm ² (AWG 20 – 16)	7.010.981.201
	Crimp socket 1,25 mm, machined	0,5 – 1,5 mm ² (AWG 20 – 16)	7.010.981.202

Contacts	Type	Crimp Range	Part Number
	Crimp pin 1,25 mm, machined.....	0,34 – 1,5 mm ² (AWG 20 – 16)	7.010.981.211
	Crimp socket 1,25 mm, machined	0,34 – 1,5 mm ² (AWG 20 – 16)	7.010.981.212
	Crimp pin 1,6 mm, machined	0,34 – 1,5 mm ² (AWG 22 – 16)	7.010.981.601
	Crimp socket 1,6 mm, machined	0,34 – 1,5 mm ² (AWG 22 – 16)	7.010.981.602
	Crimp pin 2 mm, machined.....	1,0 – 2,5 mm ² (AWG 17 – 14)	7.010.982.001
	Crimp socket 2 mm, machined	1,0 – 2,5 mm ² (AWG 17 – 14)	7.010.982.002
			
	Crimp pin HC 1,6 mm, machined	2,5 mm ²	7.011.981.601
	Crimp socket HC 1,6 mm, machined.....	2,5 mm ²	7.011.981.602

Accessories

Accessories	Type	Part Number
	Plastic protective cap for connectors	
	with male thread	7.000.980.161
	with female thread	7.000.980.162
	Brass protective cap for connectors with female thread	7.010.900.163 ¹
	INOX protective cap for connectors with female thread	7.010.904.163 ¹
	Brass protective cap for connectors with male thread	7.010.900.162
	INOX protective cap for connectors with male thread	7.010.904.162
	Brass protective cap with chain for connectors with female thread Length 70 mm	7.010.950.705 ¹
	Brass protective cap with chain for connectors with male thread Length 70 mm	7.010.950.704
	Crimp tool for manual crimping of machined crimp contacts for signal connectors M 16 and M 23	7.000.900.904
	Locator for Crimping tool for crimp contact Series M16, separate	7.010.900.136
	Locator for Crimping tool for crimp contact Series M16, B-Positions, separate	7.010.900.148

¹ no compatibility with TWILOCK

Accessories	Type	Part Number
	Conduit adaptor	
	Poleon DN 10	7.010.900.200
	Poleon DN 12	7.010.900.202
	Plastic protective cap for TWINTUS	
	TWINTUS M 16	7.000.848.101
	TWINTUS M 16 / M 12	7.000.848.102
	Disassembly Tool	
	for crimp contacts 1,25 mm	7.010.900.151
	Tool Adapter for tightening or loosening	
	knurled nuts for M 12 Power/M 16	7.010.900.191
	Tool Adapter for tightening or loosening	
	knurled nuts M12 Power, cross knurl	7.010.900.193
	Screw Tool, adjustable 0.5 – 1.7 Nm	7.010.900.190

¹ upon request





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