

Technical Data

RoHS

Panel connector, cable connector and coupler connector

Panel connector



Cable connector



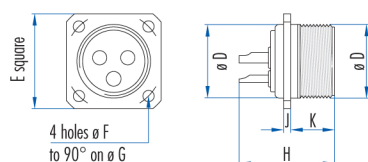
Coupler connector



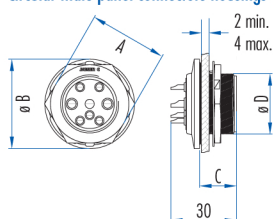
Panel connector, cable connector and coupler connector	rectangular housing
Locking	screw connection
Protection	IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector and cable connector seal
Contacts	3 to 52 contacts \varnothing 2 mm – \varnothing 3 mm – \varnothing 4 mm non-removable solder contacts
Max. current	15 A \varnothing 2 mm – 35 A \varnothing 3 mm – 50 A \varnothing 4 mm
Contact resistance between pin and socket	$< 0,0015 \Omega$ \varnothing 2 mm – $< 0,0010 \Omega$ \varnothing 3 mm – $< 0,0007 \Omega$ \varnothing 4 mm
Breakdown voltage between adjacent contacts	> 2500 Volts (RMS)
Breakdown voltage between peripheral contacts and ground	> 1500 Volts (RMS), (> 2000 Volts (RMS) 4 contacts \varnothing 4 mm)
Insulation resistance	> 5000 M Ω
Operating temperature	-40 °C to +100 °C (500 hours at +125 °C)
Materials	Nickel-plated light alloy, silver-plated brass contact, PBT insert except contacts diameter 4 mm which are gold-plated brass
Max. cross-section of soldered conductors	1,34 mm ² \varnothing 2 mm – 3,18 mm ² \varnothing 3 mm – 5,26 mm ² \varnothing 4 mm

Dimensional Data

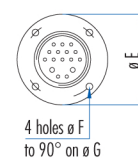
Panel connector



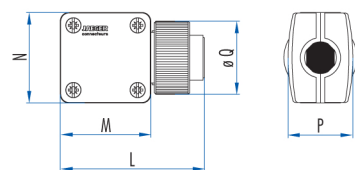
Circular male panel connectors housings 1 and 2



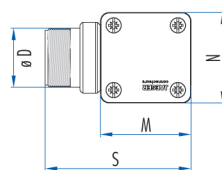
Circular male panel connectors housings 3 to 5



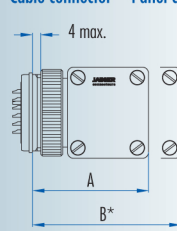
Cable connector



Coupler connector



Cable connector – Panel connector assembly



Housing	Number of Contacts	Circular male panel connector						
		A	\varnothing B	C	\varnothing D	\varnothing E	\varnothing F	\varnothing G
1	3-4-6	29	34	16,5	M21			
2	4-8-12	35	40	16,5	M27			
3	17					57	4,2	48
4	25					63	4,2	54
5	35-52					72	4,2	62

Housing	Number of Contacts	Assembly		Square and circular male panel connector								Female cable connector – Male coupler connector						Assembly		Square female panel connector								Male cable connector – Female coupler connector					
		A	B	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	S	A	B	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	S		
1	3-4-6	52	64	21	27	3,2	28	25	2	12,7	51,2	32,2	32,2	23	26	51,8	56	66	21	27	3,2	28	28,7	2	16	51,5	32,2	32,2	23	26	52		
2	4	56	68	27	32	3,2	34	29	2	12,5	55,2	36,4	36,4	28,4	33	56,5	60	70	27	32	3,2	34	28,6	2,1	16	55	36,4	36,4	28,4	33	56,4		
2	8-12	56	68	27	32	3,2	34	21	2	12,5	55,2	36,4	36,4	28,4	33	56,5	60	70	27	32	3,2	34	28,6	2,1	16	55	36,4	36,4	28,4	33	56,4		
3	17	64	75	39	43	4,2	48	23	2	12	62,4	42,6	47,6	38,6	44	62	68	83	39	43	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5		
4	25	68	81	45	47	4,2	54	23,8	2	12	67,6	47,8	53,8	44,8	51	69	73	87	45	47	4,2	54	29,8	2	18,6	67,2	47,8	53,8	44,8	50	72,5		
5	35	78	89	52	54	4,2	62	28,8	1,9	12,1	74,5	55	61,5	51,5	58	76	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58			
5	52	78	89	52	54	4,2	62	28	1,9	12,1	74,5	55	61,5	51,5	58	76	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58			

* B: minimum disconnection distance

Part Number

Housing	1	1	1	2	2	2	3	4	5	5
Number of Contacts	3	4	6	4	8	12	17	25	35	52
L ø 2 mm	1	4	6		6	12	15	23	33	52
L ø 3 mm	2				2		2	2	2	
L ø 4 mm				4						

Male panel connectors – Female cable connectors – Male coupler connectors

Circular male panel connector*	°536 753 006	°536 754 006	°536 756 006		°536 758 006	°536 762 006	°536 117 006	°536 125 006	°536 135 006	°533 706 006
Square male panel connector	°038 351 006	°043 082 006	°038 355 006	°533 763 006	°038 356 006	°038 359 006	°038 322 006	°042 986 006	°043 001 006	°533 703 006
Female cable connector	042 953 006	043 085 006	042 954 006	530 763 006	042 955 006	042 956 006	038 382 006	042 977 006	042 990 006	530 703 006
Male coupler connector	532 203 006	532 204 006	532 206 006	530 768 006	532 208 006	532 212 006	532 217 006	532 225 006	532 235 006	530 707 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006	630 155 006	630 175 006	630 175 006
Flat-Gasket for panel connector (pack of 10)	536 945 006	536 945 006	536 945 006	536 946 006	536 946 006	536 946 006	536 947 006	536 126 006	536 136 006	536 136 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 912 006	536 913 006	536 914 006	536 914 006
Protective cap for female cable connector	532 260 006	532 260 006	532 260 006	532 278 006	532 278 006	532 278 006	532 262 006	532 263 006	532 264 006	532 264 006
Protective cap for coupler connector	536 910 606	536 910 606	536 910 606							

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	°536 603 006	°536 604 006	°536 606 006	°533 760 006	°536 608 006	°536 612 006	°536 617 006	°536 625 006	°536 635 006	°533 700 006
Male cable connector	532 603 006	532 604 006	532 606 006	530 760 006	532 608 006	532 612 006	532 617 006	532 625 006	532 635 006	530 700 006
Female coupler connector	°530 153 006	°530 154 006	°530 156 006	°530 753 006	°530 158 006	°530 162 006	530 170 006	530 175 006		
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006	630 155 006	630 175 006	630 175 006
Flat-Gasket for panel connector (pack of 10)	536 945 006	536 945 006	536 945 006	536 946 006	536 946 006	536 946 006	536 947 006	536 126 006	536 136 006	536 136 006
Housing for panel connector	536 935 006	536 935 006	536 935 006	536 937 006	536 937 006	536 937 006	536 996 006	536 880 006	536 881 006	536 881 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 912 006	536 913 006	536 914 006	536 914 006
Protective cap for male cable connector	532 265 006	532 265 006	532 265 006	532 279 006	532 279 006	532 279 006	532 267 006	532 268 006	532 269 006	532 269 006
Protective cap for coupler connector	536 910 606	536 910 606	536 910 606							

- For the version with 4 contacts ø 4 mm, contact No. 4 of the panel connector and the coupler connector, which makes the electrical connection before the other 3 contacts and disconnects it after separation, can be used as a ground contact.
- ° The panel connectors are also compatible with the Waterproof cable connectors page 22 and Waterproof PG cable connectors page 26.
- ° Square female panel connectors and female coupler connectors are also of the „Rapid“ type, page 16 with 3 to 12 contacts.
- Sealable tamper-evident connectors for housings 1 and 2. See: Accessories.
- For assembly, wiring, panel connector installation and contact arrangement instructions, see: Technical guides.
- Other accessories, see: Accessories.
- * The circular male panel connector with 3 to 12 contacts includes a body, a seal, a nut and its locknut.

Technical Data

RoHS

Panel connector and cable connector

Locking	screw connection
Protection	IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector and cable connector seal
Contact	single contact \varnothing 2 mm non-removable solder contact
Max. current	15 A \varnothing 2 mm
Contact resistance between pin and socket	$< 0,0015 \Omega$ \varnothing 2 mm
Maximum voltage in steady state	> 2500 Volts
Test voltage	6000 Volts (2U + 1000)
Insulation resistance	$> 10^9 M\Omega$
Operating temperature	-20 °C to +100 °C (100 hours at +100 °C)
Materials	Nickel-plated light alloy, silver-plated brass contact, thermoplastic insert
Max. cross-section of soldered conductors	(shielded or unshielded high-voltage cable) 1,91 mm ² \varnothing 2 mm

Panel connector

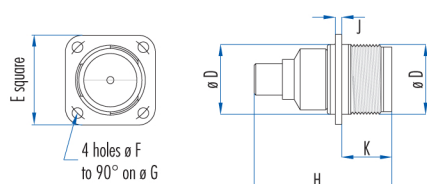


Cable connector

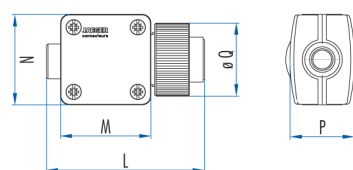


Dimensional Data

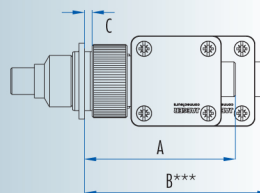
Panel connector



Cable connector



Cable connector – Panel connector assembly



Housing	Number of Contacts	Assembly			Square male panel connector								Female cable connector					
		A	B	C	ø D	E	ø F	ø G	H	I	J	K	L	M	N	P	ø Q	
1	1	67	78	4	21	27	3,2	28	38,5	M21	2	12,7	58,5	32,2	32,2	23	26	

*** B: minimum disconnection distance

Part Number

Housing	1
Number of Contacts ø 2 mm	1
Male panel connector – Female cable connector	
Square male panel connector	536 893 006
Female cable connector	532 893 006
Housing for panel connector	536 886 006
Flat-Gasket for panel connector (pack of 10)	536 945 006

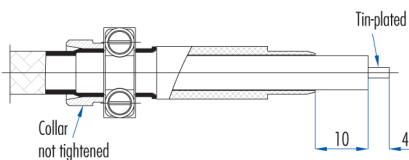
- Sealable tamper-evident connectors, see: Accessories.
- For wiring and panel connector installation instructions, see: Technical guides.

Preparing the cable

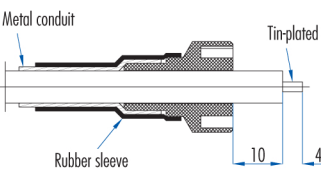
Warning: When the circuit is under load:

- Do not separate the two parts of the connector
- Do not fit or remove the protective caps on connectors
- Use shielded or unshielded high-voltage cables. Maximum cross-section of the conductor: 1,91 mm².
- To wire the panel connector, use a housing with cable clamp or the assembly shown below. A lug is delivered with the panel connector for the electrical continuity of the cable shielding, if necessary.
- To achieve the performances previously stated, the assembly instructions given on the diagram below must be strictly adhered to.
- The polyethylene insulating sleeves must be fully inserted into their seating.

Cable connector side



Panel connector side



Thermocouple Series – Standard with Thermocouple contacts

Technical Data

RoHS

Panel connector, cable connector and coupler connector

Panel connector



Cable connector



Coupler connector

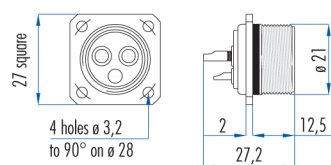


Panel connector, cable connector and coupler connector	rectangular housing
Locking	screw connection
Protection	IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector and cable connector seal
Contacts	3 contacts: 1 ø 2 mm and 2 (the thermocouple) ø 3 mm, non-removable solder contacts
Max. current	15 A ø 2 mm – 35 A ø 3 mm
Contact resistance between pin and socket	$< 0,0015 \Omega$ ø 2 mm, Depending on thermocouple ø 3 mm $< 0,0015 \Omega$ \longleftrightarrow $< 0,0045 \Omega$
Breakdown voltage between adjacent pins	> 1500 Volts (RMS)
Breakdown voltage between peripheral pins contact and ground	> 1500 Volts efficaces
Insulation resistance	$> 5000 M\Omega$
Operating temperature	-40°C to $+100^{\circ}\text{C}$ (500 hours at $+125^{\circ}\text{C}$)
Materials	Nickel-plated light alloy, silver-plated brass contact, thermocouple contacts see below, PBT insert
Max. cross-section of soldered conductors	$1,34 \text{ mm}^2$ ø 2 mm – $3,39 \text{ mm}^2$ ø 3 mm

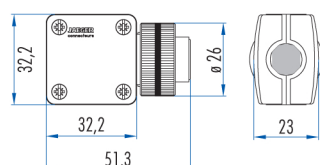
Thermocouple	Identification of contacts		Identification of connectors by a coloured ring
	Polarity	Number	
iron	+	1	Black type J
constantan	-	2	
chromel	+	1	Green type K
alumel	-	2	
copper	+	1	Brown type T
constantan	-	2	

Dimensional Data

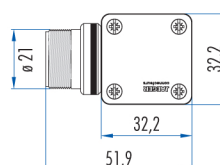
Panel connector



Cable connector



Coupler connector



Thermocouple Series – Standard with Thermocouple contacts

Part Number

Housing	1	1	1
Number of Contacts	3	3	3
Thermocouple (J: iron constantan, K: chromel alumel, T: copper constantan)	J	K	T

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	536 161 006	536 162 006	536 163 006
Female cable connector	532 161 006	532 162 006	532 163 006
Male coupler connector	532 121 006	532 122 006	532 123 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006
End fitting for soldering	532 998 006	or 042 547 006	or 042 937 006
Pyrometer tube end fitting	530 126 026	530 126 026	530 126 026
Protective cap for panel connector	536 910 006	536 910 006	536 910 006
Protective cap for cable connector	532 260 006	532 260 006	532 260 006

- For assembly, wiring, panel connector installation and contact arrangement instructions, see: Technical guides.
- Other accessories, see: Accessories.
- For configurations requiring a larger number of contacts and with different technical characteristics, see page 128.

Thermocouple data

In 1821, Seebeck discovered that an electric current flows in a closed loop with two wires made of different metals if the temperature of one of the two junctions is higher than that of the other. This bimetallic combination was called a **Thermocouple**.

If one of the junctions is open whilst keeping its two ends at the same temperature, the electromotive force measured between the two ends depends on the difference in temperature between the two junctions more precisely, the electromotive force depends on the temperature of a single junction if the other is maintained at constant temperature.

Different combinations of metals and alloys were tested to form a Thermocouple or Thermoelectric couple. The main types of pairs selected are:

- **Type J:** an iron component and a constantan component
- **Type K:** a chromel component and an alumel component
- **Type T:** a copper component and a constantan component
- **Type S:** a platinum rhodium 10% component and a platinum component
- **Type E:** a chromel component and a constantan component

There are other Thermocouples but they are less commonly used.

The thermoelectric properties thus discovered gave rise to temperature measurement in industry. Some examples of use: pyrometer tubes, freeze-driers, medical, engine bearing temperature control, etc.

The choice of Thermocouple is governed by:

- the temperature range to be measured
- its resistance to pollution and corrosion
- the resistance of the Thermocouple for a given gas atmosphere

Type	Colour Code standard: IEC 584.3	Conductor +	Conductor -	Temperature	Application recommended in atmospheres				
					vacuum	oxidizing	reducing	inert	gaseous
J	Black	Iron	Constantan	-210 °C +1200 °C	x	x	x	x	Air argon nitrogen
K	Green	Chromel	Alumel	-270 °C +1370 °C		x		x	Air argon
T	Brown	Copper	Constantan	-270 °C +400 °C		x	x		Air argon nitrogen
S	Yellow	platinum rhodium 10% Rh	Platinum	-50 °C +1760 °C		x			Air
E	Purple	Chromel	Constantan	-270 °C +1000 °C		x		x	Air argon

Technical Data

RoHS

Panel connector, cable connector and coupler connector

Panel connector



Cable connector



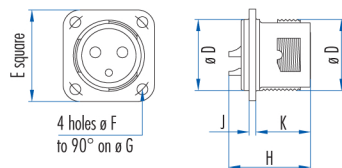
Coupler connector



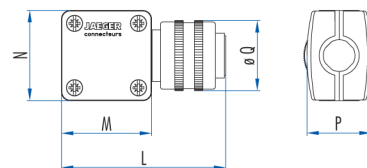
Panel connector, cable connector and coupler connector	rectangular housing
Locking	screw up the knurled ring on the cable connector 1/6 of a turn on the panel connector barrel, for frequent locking and unlocking
Protection	IP 50 to IP 54 with conexil in the housing with flat-gasket for panel connector
Contacts	3 to 17 contacts \varnothing 2 mm – \varnothing 3 mm – \varnothing 4 mm non-removable solder contacts
Max. current	15 A \varnothing 2 mm – 35 A \varnothing 3 mm – 50 A \varnothing 4 mm
Contact resistance between pin and socket	$< 1,5 \text{ m}\Omega$ \varnothing 2 mm – $< 1 \text{ m}\Omega$ \varnothing 3 mm – $< 0,7 \text{ m}\Omega$ \varnothing 4 mm
Breakdown voltage between adjacent contacts	> 2500 Volts (RMS)
Breakdown voltage between peripheral contacts and ground	> 1500 Volts (RMS), (> 2000 Volts (RMS) 4 contacts \varnothing 4 mm)
Insulation resistance	$> 5000 \text{ M}\Omega$
Operating temperature	-40°C to $+100^\circ\text{C}$ (500 hours at $+125^\circ\text{C}$)
Materials	Nickel-plated light alloy, silver-plated brass contact, PBT insert except contacts diameter 4 mm which are gold-plated brass
Max. cross-section of soldered conductors	$1,34 \text{ mm}^2$ \varnothing 2 mm – $3,18 \text{ mm}^2$ \varnothing 3 mm – $5,26 \text{ mm}^2$ \varnothing 4 mm

Dimensional Data

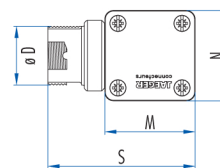
Panel connector



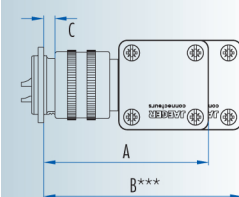
Cable connector



Coupler connector



Cable connector – Panel connector assembly



Housing	Number of Contacts	Assembly			Male panel connector								Female cable connector – Male coupler connector							Assembly			Female panel connector								Male cable connector – Female coupler connector						
		A	B	C	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	S	A	B	C	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	S				
1	3-4-6	64	73	4	21	27	3,2	28	24,8	2	12,5	57	32,2	32,2	20,2	25	51	65	76	4	21	27	3,2	28	25	2	16	57	32,2	32,2	20,2	25	51				
2	4	68	79	4	27	32	3,2	34	29	2	12,5	63	36,4	36,4	23,5	32	55	72	82	4	27	32	3,2	34	31	2	16	63	36,4	36,4	23,5	32	55				
2	8-12	68	79	4	27	32	3,2	34	24	2	12,5	63	36,4	36,4	23,5	32	55	72	82	4	27	32	3,2	34	24	2	16	63	36,4	36,4	23,5	32	55				
3	17	75	78	4	39	43	4,2	48	22,5	2	12,5	65	42,6	47,6	31,3	44	61	67	78	4	39	43	4,2	48	26	2	12	63	42,6	47,6	31,3	44	61				

*** B: minimum disconnection distance

Part Number

Housing	1	1	1	2	2	2	3
Number of Contacts	3	4	6	4	8	12	17
L ø 2 mm	1	4	6		6	12	15
L ø 3 mm	2				2		2
L ø 4 mm				4			

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	536 003 006	536 004 006	536 006 006	533 755 006	536 008 006	536 012 006	536 367 006
Female cable connector	532 003 006	532 004 006	532 006 006	530 755 006	532 008 006	532 012 006	532 367 006
Male coupler connector	532 103 006	532 104 006	532 106 006	530 752 006	532 108 006	532 112 006	530 117 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006
Flat-Gasket for panel connector (pack of 10)	536 945 006	536 945 006	536 945 006	536 946 006	536 946 006	536 946 006	536 947 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 846 006
Protective cap for female cable connector	532 260 006	532 260 006	532 260 006	532 278 006	532 278 006	532 278 006	532 218 006
Protective cap for coupler connector	536 910 606	536 910 606	536 910 606				
Housing for panel connector	536 935 006	536 935 006	536 935 006	536 937 006	536 937 006	536 937 006	536 996 006

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	"536 603 006	"536 604 006	"536 606 006	"533 760 006	"536 608 006	"536 612 006	536 368 006
Male cable connector	532 653 006	532 654 006	532 656 006	530 754 006	532 658 006	532 662 006	532 368 006
Female coupler connector	"530 153 006	"530 154 006	"530 156 006	"530 753 006	"530 158 006	"530 162 006	530 167 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006
Flat-Gasket for panel connector (pack of 10)	536 945 006	536 945 006	536 945 006	536 946 006	536 946 006	536 946 006	536 947 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 846 006
Protective cap for male cable connector	532 265 006	532 265 006	532 265 006	532 279 006	532 279 006	532 279 006	532 218 006
Protective cap for coupler connector	536 910 606	536 910 606	536 910 606				
Housing for panel connector	536 935 006	536 935 006	536 935 006	536 937 006	536 937 006	536 937 006	536 996 006

- For the version with 4 contacts ø 4 mm, contact No. 4 of the panel connector and the coupler connector, which makes the electrical connection before the other 3 contacts and disconnects it after separation, can be used as a ground contact.
- " Square female panel connectors and female coupler connectors are also of the „Standard“ type, page 10 with 3 to 12 contacts.
- " Square female panel connectors are also of the „Waterproof“ type page 22 and the „Waterproof PG“ type page 26 with 3 to 12 contacts.
- Sealable tamper-evident connectors for housings 1 and 2. See: Accessories.
- For assembly, wiring, panel connector installation and contact arrangement instructions, see: Technical guides.
- Other accessories, see: Accessories.

Technical Data

RoHS

Panel connector, cable connector and coupler connector

Panel connector



Cable connector



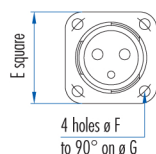
Coupler connector



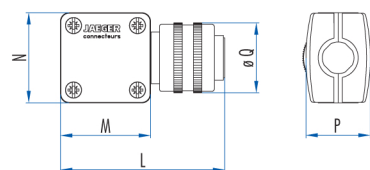
Panel connector, cable connector and coupler connector	rectangular housing
Locking	screw up the knurled ring on the cable connector 1/6 of a turn on the panel connector barrel, for frequent locking and unlocking
Protection	IP 50 to IP 54 with conexil in the housing with flat-gasket for panel connector
Contacts	3 to 17 contacts ø 2 mm – ø 3 mm – ø 4 mm non-removable solder contacts
Max. current	15 A ø 2 mm – 35 A ø 3 mm – 50 A ø 4 mm
Contact resistance between pin and socket	< 1,5 mΩ ø 2 mm – < 1 mΩ ø 3 mm – < 0,7 mΩ ø 4 mm
Breakdown voltage between adjacent contacts	> 2500 Volts (RMS)
Breakdown voltage between peripheral contacts and ground	> 1500 Volts (RMS), (> 2000 Volts (RMS) 4 contacts ø 4 mm)
Insulation resistance	> 10 ⁷ MΩ at 20 °C – > 10 ⁵ MΩ at 100 °C
Operating temperature	-40 °C to +100 °C (500 hours at +125 °C)
Materials	Nickel-plated light alloy, gold-plated brass contacts, PBT insert
Max. cross-section of soldered conductors	1,34 mm ² ø 2 mm – 3,18 mm ² ø 3 mm – 5,26 mm ² ø 4 mm

Dimensional Data

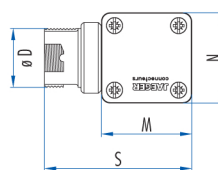
Panel connector



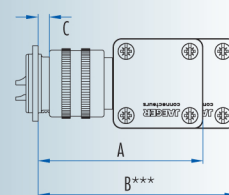
Cable connector



Coupler connector



Cable connector – Panel connector assembly



Housing	Number of Contacts	Assembly			Male panel connector								Female cable connector – Male coupler connector						Assembly			Female panel connector								Male cable connector – Female coupler connector					
		A	B	C	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	S	A	B	C	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	S		
1	3-4-6	64	73	4	21	27	3,2	28	24,8	2	12,5	57	32,2	32,2	20,2	25	51	65	76	4	21	27	3,2	28	25	2	16	57	32,2	32,2	20,2	25	51		
2	4	68	79	4	27	32	3,2	34	29	2	12,5	63	36,4	36,4	23,5	32	55	72	82	4	27	32	3,2	34	31	2	16	63	36,4	36,4	23,5	32	55		
2	8-12	68	79	4	27	32	3,2	34	24	2	12,5	63	36,4	36,4	23,5	32	55	72	82	4	27	32	3,2	34	24	2	16	63	36,4	36,4	23,5	32	55		
3	17	75	78	4	39	43	4,2	48	22,5	2	12,5	65	42,6	47,6	31,3	44	61	67	78	4	39	43	4,2	48	26	2	12	63	42,6	47,6	31,3	44	61		

*** B: minimum disconnection distance

Part Number

Housing	1	1	1	2	2	2	3
Number of Contacts	3	4	6	4	8	12	17
L ø 2 mm	1	4	6		6	12	15
L ø 3 mm	2				2		2
L ø 4 mm				4			

Male panel connectors — Female cable connectors — Male coupler connectors

Square male panel connector	536 353 006	536 354 006	536 356 006	533 755 006	536 358 006	536 362 006	536 357 006
Female cable connector	532 353 006	532 354 006	532 356 006	530 755 006	532 358 006	532 362 006	532 357 006
Male coupler connector	530 103 006	530 104 006	530 106 006	530 752 006	530 108 006	530 112 006	530 107 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006
Flat-Gasket for panel connector (pack of 10)	536 945 006	536 945 006	536 945 006	536 946 006	536 946 006	536 946 006	536 947 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 846 006
Protective cap for female cable connector	532 260 006	532 260 006	532 260 006	532 278 006	532 278 006	532 278 006	532 218 006
Protective cap for coupler connector	536 910 606	536 910 606	536 910 606				
Gehäuse Gerüstestecker	536 935 006	536 935 006	536 935 006	536 937 006	536 937 006	536 937 006	536 996 006

Female panel connectors — Male cable connectors — Female coupler connectors



Square female panel connector	536 853 006	536 854 006	536 856 006	533 760 006	536 858 006	536 862 006	536 857 006
Male cable connector	532 853 006	532 854 006	532 856 006	530 754 006	532 858 006	532 862 006	532 857 006
Female coupler connector	530 183 006	530 184 006	530 186 006	530 753 006	530 188 006	530 192 006	530 187 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006
Flat-Gasket for panel connector (pack of 10)	536 945 006	536 945 006	536 945 006	536 946 006	536 946 006	536 946 006	536 947 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 846 006
Protective cap for male cable connector	532 265 006	532 265 006	532 265 006	532 279 006	532 279 006	532 279 006	532 218 006
Protective cap for coupler connector	536 910 606	536 910 606	536 910 606				
Gehäuse Gerüstestecker	536 935 006	536 935 006	536 935 006	536 937 006	536 937 006	536 937 006	536 996 006

- For the version with 4 contacts ø 4 mm, contact No. 4 of the panel connector and the coupler connector, which makes the electrical connection before the other 3 contacts and disconnects it after separation, can be used as a ground contact.
- The square female panel connectors with 3 to 12 contacts can be mated with cable connectors from the „Standard“ Series page 10 and „Waterproof“ Series page 22.
- Sealable tamper-evident connectors for housings 1 and 2. See: Accessories.
- For assembly, wiring, panel connector installation and contact arrangement instructions, see: Technical guides.
- Other accessories, see: Accessories.

Technical Data

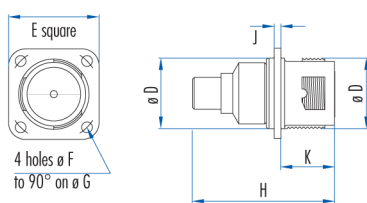
RoHS

Panel connector and cable connector

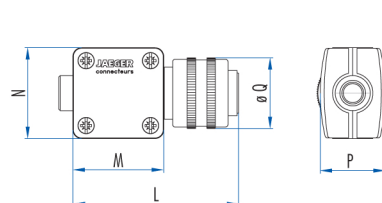
Locking	Panel connector		Cable connector	
Protection	rectangular housing			
Contacts	screw up the knurled ring on the cable connector 1/6 of a turn on the panel connector barrel, for frequent locking and unlocking			
Max. current	IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector and cable connector seal			
Contact resistance between pin and socket	single contact ø 2 mm, non-removable solder contact			
Maximum voltage in steady state	15 A ø 2 mm			
Test voltage	< 1,5m Ω ø 2 mm			
Insulation resistance	> 2500 Volts			
Operating temperature	6000 Volts (2U + 1000)			
Materials	> 10 ⁶ MΩ			
Max. cross-section of soldered conductors	-20 °C to +100 °C (100 hours at +100 °C)			
	Nickel-plated light alloy, silver-plated brass contact, thermoplastic insert			
	(shielded or unshielded high-voltage cable) 1,91 mm ² ø 2 mm			

Dimensional Data

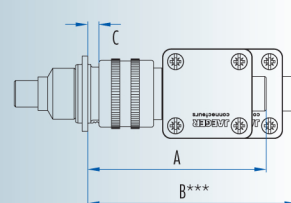
Panel connector



Cable connector



Cable connector – Panel connector assembly



Housing	Number of Contacts	Assembly			Male panel connector							Female cable connector					Assembly			Female panel connector							Male cable connector				
		A	B	C	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q	A	B	C	ø D	E	ø F	ø G	H	J	K	L	M	N	P	ø Q
1	1	67	78	4	21	27	3,2	28	40	2	12,5	62	32,2	32,2	20,2	25	70	81	4	21	27	3,2	28	42	2	16	62	32,2	32,2	20,2	25

*** B: minimum disconnection distance

Part Number

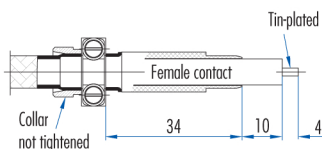
Housing	1
Number of Contacts ø 2 mm	1
Male panel connector – Female cable connector	
Square male panel connector	536 390 006
Female cable connector	532 390 006
Housing for panel connector	536 886 006
Flat-Gasket for panel connector (pack of 10)	536 945 006
Female panel connector – Male cable connector	
Square female panel connector	536 391 006
Male cable connector	532 391 006
Housing for panel connector	536 886 006
Flat-Gasket for panel connector (pack of 10)	536 945 006

- Sealable tamper-evident connectors for housings, see: Accessories.
- For wiring and panel connector installation instructions, see: Technical guides.

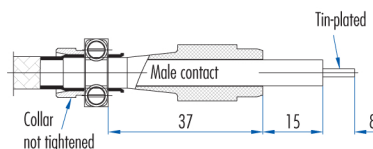
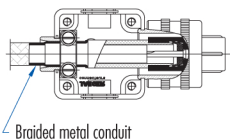
Preparing the cable

Warning: When the circuit is under load:

- do not separate the two parts of the connector
- do not fit or remove the protective caps on connectors
- Use shielded or unshielded high-voltage cables. Maximum cross-section of the conductor: 1,91 mm².
- To wire the panel connector, use a housing with cable clamp or the assembly shown below. A lug is delivered with the panel connector for the electrical continuity of the cable shielding, if necessary.
- To achieve the performances previously stated, the assembly instructions given on the diagram below must be strictly be followed.
- The polyethylene insulating sleeves must be fully inserted into their seating.



Cable connectors



Panel connectors

