

Technical Data

RoHS

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 m Ω \varnothing 2 mm – < 1 m Ω \varnothing 3 mm – < 0,7 m Ω \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

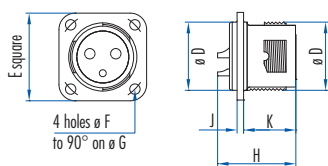
Nickel-plated light alloy, silver-plated brass contact, PBT insert
except contacts diameter 4 mm which are gold-plated brass

Max. cross-section of soldered conductors

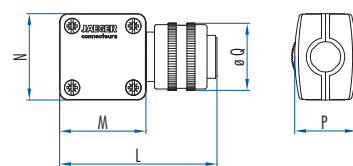
1,34 mm² \varnothing 2 mm – 3,18 mm² \varnothing 3 mm – 5,26 mm² \varnothing 4 mm

Dimensional Data

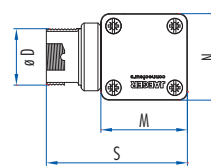
Panel connector



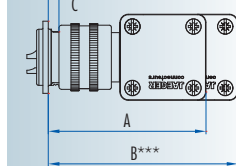
Cable connector



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	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing Q	S	A	B	C	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing 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

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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 m Ω \varnothing 2 mm – < 1 m Ω \varnothing 3 mm – < 0,7 m Ω \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 4mm)

Insulation resistance

> 10⁷ M Ω at 20 °C – > 10⁵ M Ω at 100 °C

Operating temperature

-40 °C to +100 °C (500 hours at +125 °C)

Materials

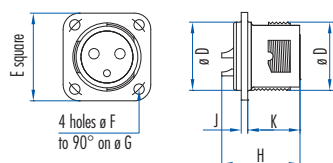
Nickel-plated light alloy, gold-plated brass contacts, PBT insert

Max. cross-section of soldered conductors

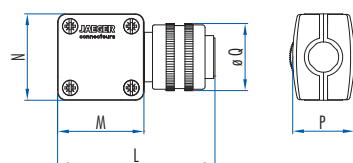
1,34 mm² \varnothing 2 mm – 3,18 mm² \varnothing 3 mm – 5,26 mm² \varnothing 4 mm

Dimensional Data

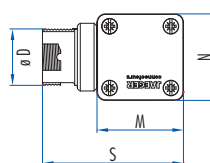
Panel connector



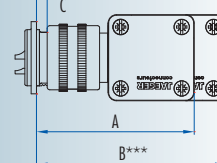
Cable connector



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	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing Q	S	A	B	C	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing 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 Gerütestecker	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 Gerütestecker	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 rectangular housing 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	Cable connector IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector and cable connector seal
Contacts	single contact \varnothing 2 mm, non-removable solder contact
Max. current	15 A \varnothing 2 mm
Contact resistance between pin and socket	< 1,5m Ω \varnothing 2 mm
Maximum voltage in steady state	> 2500 Volts
Test voltage	6000 Volts (2U + 1000)
Insulation resistance	> 10 ⁶ M Ω
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

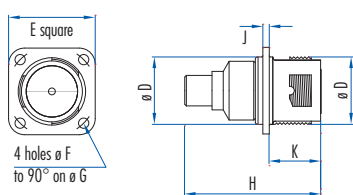


Cable connector

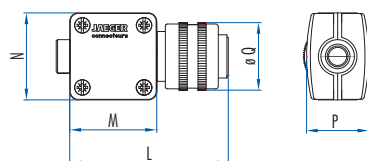


Dimensional Data

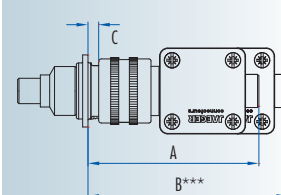
Panel connector



Cable connector



Cable connector – Panel connector assembly



Housing	Number of Contacts	Assembly		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

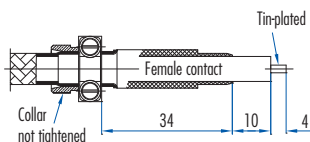
Housing	1
Number of Contacts ø 2 mm	1
Male panel connector – Female cable connector	
Square male panel connector	536 390 006
Female cable connector	532 390 006
Housing for panel connector	536 886 006
Flat-Gasket for panel connector (pack of 10)	536 945 006
Female panel connector – Male cable connector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

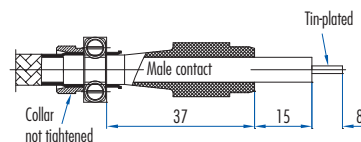
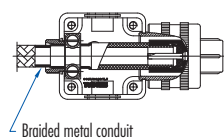
Preparing the cable

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

