

Technical Data

RoHS

Panel connector



Cable connector



Coupler connector



Panel connector, cable connector
and coupler connector

circular housing

Locking

screw connection

Protection

IP 68 with flat-gasket for panel connector

Contacts

7 to 19 contacts \varnothing 0,76 mm, 3 to 37 contacts \varnothing 1 mm, 3 to 12 contacts \varnothing 1,6 mm, 3 to 7 contacts \varnothing 2,4 mm
removable contacts, can be crimped or soldered

Max. current

5 A \varnothing 0,76 mm – 7 A \varnothing 1 mm – 15 A \varnothing 1,6 mm – 30 A \varnothing 2,4 mm

Contact resistance between pin and socket

$< 3m \Omega$ \varnothing 1 mm – $< 2m \Omega$ \varnothing 1 mm – $< 1,5m \Omega$ \varnothing 1,6 mm – $< 1m \Omega$ \varnothing 2,4 mm

Immersion

10 Bar (10 Bar = 100 M)

Breakdown voltage

\varnothing 0,76 mm > 1500 V (RMS) – \varnothing 1 mm > 2000 V (RMS)
 \varnothing 1,6 mm > 2500 V (RMS) – \varnothing 2,4 mm > 2500 V (RMS)

Insulation resistance

$> 5000 M\Omega$

Operating temperature

-40 °C to $+100$ °C

Materials

303 stainless steel, gold-plated brass contacts, neoprene insert

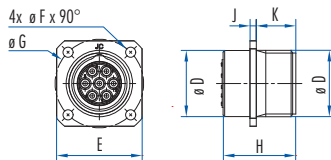
Max. conductor cross-section

Contact	\varnothing	\varnothing	\varnothing	\varnothing
	0,76 mm	1 mm	1,6 mm	2,4 mm
Soldered		0,6 mm ²	1,5 mm ²	3,18 mm ²
Crimped*	0,34 mm ²	0,6 to 0,93 mm ²	0,6 to 1,5 mm ²	1,34 to 3,18 mm ²

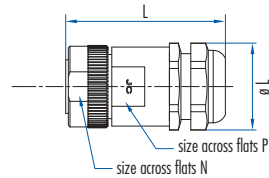
* According to the Number of Contacts

Dimensional Data

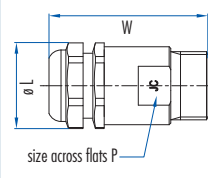
Square panel connector



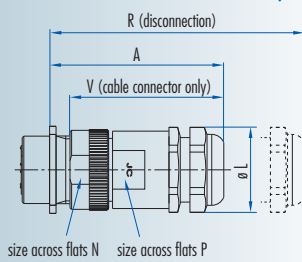
Cable connector



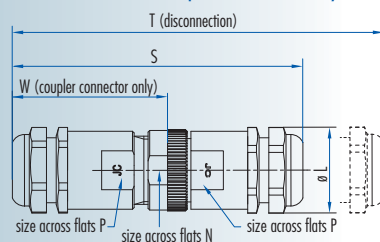
Coupler connector



Cable connector – Panel connector assembly



Cable connector – Cable coupler connector assembly



Housing

	A	D	E	F	G	H	J	K	L	N	P	R	S	T	V	W
00	52	ø 12	18	2,7	ø 18	17	1,5	11,3	16	14	12	61	85	93	47	46
0	56	ø 16	20	2,7	ø 21	17	1,5	11,3	25	18	19	60	92	100	50	49
1	61	ø 21	27	3,2	ø 28	23	2	12,5	27	23	21	70	102	111	54	57
2	61	ø 27	32	3,2	ø 34	23	2	12	33	30	27	70	104	113	55	58

Male panel connectors – Female cable connectors – Male coupler connectors

Housing	00	0	0	0
Number of Contacts ø 0,76 mm	7	8	12	19

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	680 607 006	680 608 006	680 612 006	680 619 006
Female cable connector	681 607 006	681 608 006	681 612 006	681 619 006
Male coupler connector	682 607 006	682 608 006	682 612 006	682 619 006

Crimp tool: 630 180 006 + positioner ø 0.76 mm: 769 100 006. Tool for insertion and removing contacts ø 0,76 mm 769 131 006.

Housing	00	00	0	1	1	2	2
Number of Contacts ø 1 mm	3	4	7	12	19	27	37

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	680 803 006	680 804 006	680 807 006	680 012 006	680 019 006	680 027 006	680 037 006
Female cable connector	681 803 006	681 804 006	681 807 006	681 012 006	681 019 006	681 027 006	681 037 006
Male coupler connector	682 803 006	682 804 006	682 807 006	682 012 006	682 019 006	682 027 006	682 037 006

Crimp tool with positioner ø 1 mm: 579 316 006. Tool for insertion and removing contacts ø 1 mm 597 104 006.

Housing	1	1	1	2
Number of Contacts ø 1,6 mm	3	4	7	12

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	680 203 006	680 204 006	680 207 006	680 212 006
Female cable connector	681 203 006	681 204 006	681 207 006	681 212 006
Male coupler connector	682 203 006	682 204 006	682 207 006	682 212 006

Crimp tool with positioner ø 1,6 mm: 579 481 006. Tool for insertion and removing contacts ø 1 mm 577 454 006

Housing	1	1	2
Number of Contacts ø 2,4 mm	3	4	7

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	680 403 006	680 404 006	680 407 006
Female cable connector	681 403 006	681 404 006	681 407 006
Male coupler connector	682 403 006	682 404 006	682 407 006

Crimp tool with positioner ø 2,4 mm: 579 481 006. Tool for insertion and removing contacts ø 1 mm 577 458 006.

Housing	00	0	1	2
Flat-Gasket for panel connector (pack of 10)	533 328 006	533 368 006	536 945 006	536 946 006
Cable gland, small outlet	680 001 216	680 001 186	680 001 116	680 001 136
└ Capacity of the cable gland in mm	ø 2–5	ø 3–7	ø 7–12	ø 9–16
Cable gland, large outlet	680 001 176	680 001 196	680 001 126	680 001 156
└ Capacity of the cable gland in mm	ø 3–6,5	ø 5–10	ø 10–14	ø 13–18
Protective cap for panel connector	680 007 006	680 007 906	680 001 006	680 002 006
Protective cap for cable connector	680 008 006	680 008 906	680 003 006	680 004 006
Protective cap for coupler connector	680 009 006	680 009 906	680 005 006	680 006 006

- ø 1,6 mm and ø 2,4 mm, contact No. 1, which makes the electrical connection before the other contacts and disconnects it after their separation, can be used as a ground contact.

- All connectors are delivered with their contacts.

- N.B. These connectors can be fitted with an „ethylene propylene“ insert for use in power applications. Consult us.

- **Important:** All the contacts must be mounted in the insert using our tool.

- For assembly, wiring, panel connector installation and contact arrangement instructions, see: Technical guides;

- Other accessories, see: Accessories.

- Thermocouple contacts can be fitted. See: Accessories.

Female panel connectors – Male cable connectors – Female coupler connectors

Housing	00	0	0	0
Number of Contacts ø 0,76 mm	7	8	12	19

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	680 707 006	680 708 006	680 712 006	680 719 006
Male cable connector	681 707 006	681 708 006	681 712 006	681 719 006
Female coupler connector	682 707 006	682 708 006	682 712 006	682 719 006

Crimp tool: 630 180 006 + positioner ø 0,76 mm: 769 100 006. Tool for insertion and removing contacts ø 0,76 mm 769 131 006.

Housing	00	00	0	1	1	2	2
Number of Contacts ø 1 mm	3	4	7	12	19	27	37

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	680 903 006	680 904 006	680 907 006	680 112 006	680 119 006	680 127 006	680 137 006
Male cable connector	681 903 006	681 904 006	681 907 006	681 112 006	681 119 006	681 127 006	681 137 006
Female coupler connector	682 903 006	682 904 006	682 907 006	682 112 006	682 119 006	682 127 006	682 137 006

Crimp tool with positioner ø 1 mm: 579 316 006. Tool for insertion and removing contacts ø 1 mm 597 104 006.

Housing	1	1	1	2
Number of Contacts ø 1,6 mm	3	4	7	12

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	680 303 006	680 304 006	680 307 006	680 312 006
Male cable connector	681 303 006	681 304 006	681 307 006	681 312 006
Female coupler connector	682 303 006	682 304 006	682 307 006	682 312 006

Crimp tool with positioner ø 1,6 mm: 579 481 006. Tool for insertion and removing contacts ø 1 mm 577 454 006.

Housing	1	1	2
Number of Contacts ø 2,4 mm	3	4	7

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	680 503 006	680 504 006	680 507 006
Male cable connector	681 503 006	681 504 006	681 507 006
Female coupler connector	682 503 006	682 504 006	682 507 006

Crimp tool with positioner ø 2,4 mm: 579 481 006. Tool for insertion and removing contacts ø 1 mm 577 458 006.

Housing	00	0	1	2
Flat-Gasket for panel connector (pack of 10)	533 328 006	533 368 006	536 945 006	536 946 006
Cable gland, small outlet	680 001 216	680 001 186	680 001 116	680 001 136
└ Capacity of the cable gland in mm	ø 2–5	ø 3–7	ø 7–12	ø 9–16
Cable gland, large outlet	680 001 176	680 001 196	680 001 126	680 001 156
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Protective cap for panel connector	680 007 006	680 007 906	680 001 006	680 002 006
Protective cap for cable connector	680 008 006	680 008 906	680 003 006	680 004 006
Protective cap for coupler connector	680 009 006	680 009 906	680 005 006	680 006 006

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- Thermocouple contacts can be fitted. See: Accessories.