

Technical Data

RoHS

Panel connector, cable connector and coupler connector

Panel connector



Cable connector



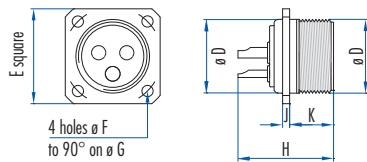
Coupler connector



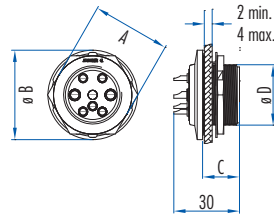
Panel connector, cable connector and coupler connector	rectangular housing
Locking	screw connection
Protection	IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector and cable connector seal
Contacts	3 to 52 contacts \varnothing 2 mm – \varnothing 3 mm – \varnothing 4 mm non-removable 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

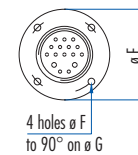
Panel connector



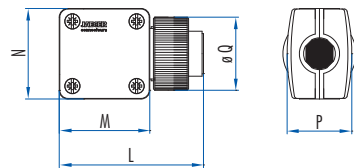
Circular male panel connectors housings 1 and 2



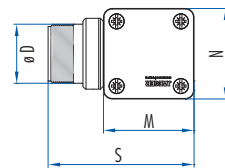
Circular male panel connectors housings 3 to 5



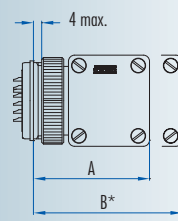
Cable connector



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	Square and circular male panel connector										Female cable connector – Male coupler connector										Square female panel connector										Male cable connector – Female coupler connector																																																																											
		A	B	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing Q	S	A	B	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing Q	S	A	B	\varnothing D	E	\varnothing F	\varnothing G	H	J	K	L	M	N	P	\varnothing 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	56	66	21	27	3,2	28	28,6	2,1	16	55	36,4	36,4	28,4	33	56,4	60	70	27	32	3,2	34	28,6	2,1	16	55	36,4	36,4	28,4	33	56,4	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5
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	60	70	27	32	3,2	34	28,6	2,1	16	55	36,4	36,4	28,4	33	56,4	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5															
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	60	70	27	32	3,2	34	28,6	2,1	16	55	36,4	36,4	28,4	33	56,4	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5															
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	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5																														
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	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5																														
4	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	72,5	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5																														
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	72,5	62	68	83	39	4,2	48	29,8	2	18,6	62,5	42,6	47,6	38,6	44	67,5	76	80,5	93	52	5,4	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5	80,5	93	52	54	4,2	62	30,6	2	18,6	74,5	55	61,5	51,5	58	72,5																														

* 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, cable connector and coupler connector

Panel connector



Cable connector



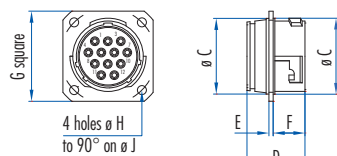
Coupler connector



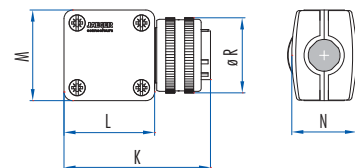
Locking	rectangular housing screw up the knurled ring on the cable connector 1/6 of a turn on the panel connector barrel, for frequent locking and unlocking
Protection	IP 50 to IP 54 with conexil in the housing, flat-gasket for panel connector
Contacts	3 to 27 contacts \varnothing 1,6 mm and \varnothing 2,4 mm, crimp or solder removable contacts
Max. current	15 A \varnothing 1,6 mm and 30 A \varnothing 2,4 mm max.
Mechanical endurance	1000 locking and mating cycles
Contact resistance between pin and socket	$< 0,0015 \Omega$ 1,6 mm – $< 0,0010 \Omega$ 2,4 mm
Breakdown voltage	> 2500 Volts (RMS)
Insulation resistance	> 5000 M Ω
Operating temperature	-40 °C to +100 °C (500 hours at +125 °C)
Materials	Nickel-plated light alloy, gold-plated brass contacts, neoprene insert
Max. conductor cross-section	1,93 mm ² \varnothing 1,6 mm – 3,18 mm ² \varnothing 2,4 mm

Dimensional Data

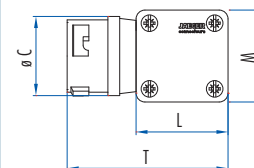
Panel connector



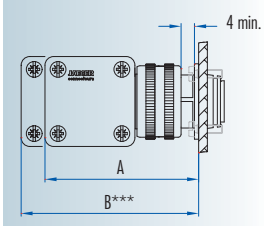
Cable connector



Coupler connector



Cable connector – Panel connector assembly



Housing	\varnothing mm	Number of Contacts	Assembly		Panel connector							Cable connector and Coupler connector						
			A	B	\varnothing C	D	E	F	G	\varnothing H	\varnothing J	K	L	M	N	\varnothing R	T	
1	1,6	3-4-7	54	63	21	20,5	1,5	11,5	27	3,2	28	50	32,2	32,2	20,2	25	50,3	
1	2,4	3-4	54	63	21	20,5	1,5	11,5	27	3,2	28	50	32,2	32,2	20,2	25	50,3	
2	1,6	12	58	67	27	20,5	1,5	11,5	32	3,2	34	54	36,4	36,4	23,5	32,5	54,2	
2	2,4	7	58	67	27	20,5	1,5	11,5	32	3,2	34	54	36,4	36,4	23,5	32,5	54,2	
3	1,6	19-27	66	75	39	23	2	11,5	43	4,2	48	61	42,6	47,6	31,3	44	62,1	
3	2,4	12	66	75	39	23	2	11,5	43	4,2	48	61	42,6	47,6	31,3	44	62,1	

*** B: minimum disconnection distance

Part Number

Housing	1	1	1	2	3	3	1	1	2	3
Number of Contacts	3	4	7	12	19	27	3	4	7	12
L ø mm	1,6	1,6	1,6	1,6	1,6	1,6	2,4	2,4	2,4	2,4

Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	630 603 006	630 604 006	630 607 006	630 612 006	630 619 006	630 627 006	630 803 006	630 804 006	630 807 006	630 812 006
Female cable connector	632 603 006	632 604 006	632 607 006	632 612 006	632 619 006	632 627 006	632 803 006	632 804 006	632 807 006	632 812 006
Male coupler connector	633 603 006	633 604 006	633 607 006	633 612 006	633 619 006	633 627 006	633 803 006	633 804 006	633 807 006	633 812 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 155 006	630 155 006	630 135 006	532 135 006	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	536 947 006	536 947 006	536 945 006	536 945 006	536 946 006	536 947 006
Protective cap for panel connector	630 720 006	630 720 006	630 720 006	536 845 006	536 846 006	536 846 006	630 720 006	630 720 006	536 845 006	536 846 006
Protective cap for cable connector	632 720 006	632 720 006	632 720 006	532 214 006	532 218 006	532 218 006	632 720 006	632 720 006	532 214 006	532 218 006

Crimp tool with positioner 579 481 006

Tool for insertion and removing contacts ø 1,6 mm 577 454 006, ø 2,4 mm 577 458 006

Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	630 703 006	630 704 006	630 707 006	630 712 006	630 719 006	630 727 006	630 903 006	630 904 006	630 907 006	630 912 006
Male cable connector	632 703 006	632 704 006	632 707 006	632 712 006	632 719 006	632 727 006	632 903 006	632 904 006	632 907 006	632 912 006
Female coupler connector	633 703 006	633 704 006	633 707 006	633 712 006	633 719 006	633 727 006	633 903 006	633 904 006	633 907 006	633 912 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 155 006	630 155 006	630 135 006	532 135 006	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	536 947 006	536 947 006	536 945 006	536 945 006	536 946 006	536 947 006
Protective cap for panel connector	630 720 006	630 720 006	630 720 006	536 845 006	536 846 006	536 846 006	630 720 006	630 720 006	536 845 006	536 846 006
Protective cap for cable connector	632 720 006	632 720 006	632 720 006	532 214 006	532 218 006	532 218 006	632 720 006	632 720 006	532 214 006	532 218 006

Crimp tool with positioner 579 481 006

Tool for insertion and removing contacts ø 1,6 mm 577 454 006, ø 2,4 mm 577 458 006

- Square panel connectors are also of the „Industrial Waterproof“ type. See page 64.
- 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.
If this contact is connected to the housing ground, insert the jumper provided for this purpose at the rear of the two parts of the connector, between the housing and the ground contact.
- Sealable tamper-evident connectors for housings 1 and 2. See: Accessories.
- **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.
- Polarisation: Polarisation systems are available to prevent incorrect connection between identical connectors (same series and same contact arrangement). See: Technical guides;
- All connectors are delivered with their contacts.
- Thermocouple contacts can be fitted. See: Accessories.

Protective caps for the Standard, Rapid, Waterproof, Hermetic Series

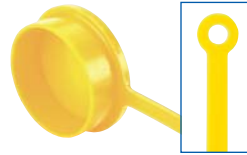
Protective caps are designed to prevent foreign substances entering and to ensure the contacts in the Waterproof Series are sealed when the cable connector, coupler connector or panel connector are disconnected from each other.



Protective caps for male / female panel connector – metal

Housing	Standard Series	Rapid Series	Waterproof Series	Waterproof HP* Series	Waterproof Pg outlet Series	Hermetic Series
1	536 910 006	536 910 006	536 910 006	536 910 256	536 910 006	536 910 006
2	536 911 006	536 911 006	536 911 006	536 911 256	536 911 006	536 911 006
3	536 912 006	536 846 006	536 912 006	536 912 256	536 912 006	536 912 006
4	536 913 006		536 913 006	536 913 256		536 913 006
5	536 914 006		536 914 006	539 914 256		536 914 006

* olive-green cadmium coating, no RoHS



Protective caps for male / female panel connector – plastic

Housing	Standard Series	Rapid Series	Waterproof Series	Waterproof HP Series	Waterproof Pg outlet Series	Hermetic Series
1	536 847 006	536 847 006	536 847 006		536 847 006	536 847 006
2	536 848 006	536 848 006	536 848 006		536 848 006	536 848 006

Does not provide a watertight seal

RoHS

Protective caps for the Standard, Rapid, Waterproof, Hermetic Series

Protective caps are designed to prevent foreign substances entering and to ensure the contacts in the Waterproof Series are sealed when the cable connector, coupler connector or panel connector are disconnected from each other.



Standard – Rapid Series

Waterproof Series, HP (High-Performance), PG outlet

Protective caps for female cable connector – metal

Housing	Standard Series	Rapid Series	Waterproof Series	Waterproof HP* Series	Waterproof Pg outlet Series
1	532 260 006	532 260 006	532 270 006	532 270 256	532 270 006
2	532 278 006	532 278 006	532 271 006	532 271 256	532 271 006
3	532 262 006	532 218 006	532 262 206	532 262 256	532 262 206
4	532 268 006		532 268 206	532 268 256	532 268 206
5	532 269 006		532 269 206	532 269 256	532 269 206

* no RoHS



Standard Series – Rapid

Waterproof Series, HP (High-Performance), PG outlet

Protective caps for male cable connector – metal

Housing	Standard Series	Rapid Series	Waterproof Series	Waterproof HP* Series	Waterproof Pg outlet Series
1	532 265 006	532 265 006	532 280 006	532 280 256	532 280 006
2	532 279 006	532 279 006	532 281 006	532 281 256	532 281 006
3	532 262 006	532 218 006	532 262 206	532 262 256	532 262 206
4	532 268 006		532 268 206	532 268 256	532 268 206
5	532 269 006		532 269 206	532 269 256	532 269 206

* no RoHS

RoHS