

### Technical Data

#### RoHS

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 (supplied with the panel connector)

Contacts

3 to 37 contacts  $\varnothing$  1 mm –  $\varnothing$  1,6 mm –  $\varnothing$  2,4 mm crimp or solder removable contacts

Max. current

7 A  $\varnothing$  1 mm – 15 A  $\varnothing$  1,6 mm – 30 A  $\varnothing$  2,4 mm

Contact resistance between pin and socket

$< 0,0020 \Omega$   $\varnothing$  1 mm –  $< 0,0015 \Omega$   $\varnothing$  1,6 mm –  $< 0,0010 \Omega$   $\varnothing$  2,4 mm

Breakdown voltage

at 20°C, at sea-level:  $\varnothing$  1 mm  $> 2000$  Volts (RMS)  
1,6 mm  $> 2500$  Volts (RMS) –  $\varnothing$  2,4 mm  $> 2500$  Volts (RMS)

Insulation resistance

$> 5000$  M $\Omega$

Operating temperature

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

Materials

Nickel-plated alloy, gold-plated brass contacts, neoprene insert

Max. conductor cross-section

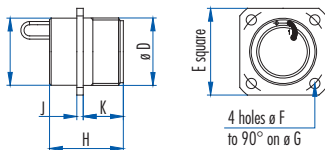
0,93 mm<sup>2</sup>  $\varnothing$  1 mm – 1,93 mm<sup>2</sup>  $\varnothing$  1,6 mm – 3,18 mm<sup>2</sup>  $\varnothing$  2,4 mm

Mechanical endurance

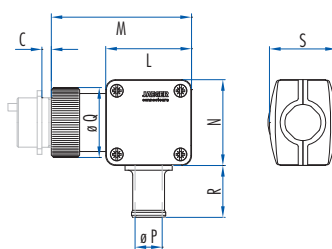
1000 locking and mating cycles

### Dimensional Data

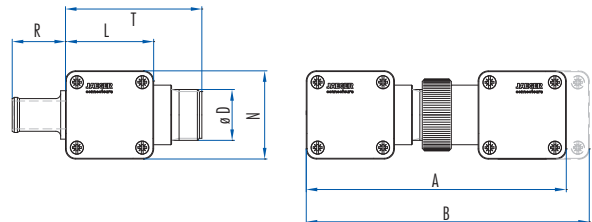
Panel connector



Panel connector and Cable connector



Cable connector and Coupler connector



Housing	Assembly		Panel connector – Cable connector – Coupler connector														Cable clamp	
	B	C	$\varnothing$ D	E	$\varnothing$ F	$\varnothing$ G	H	J	K	L	M	N	O	$\varnothing$ Q	S	T	$\varnothing$ P	R
1	62,6	104	4	M21	27	3,2	28	23	2	12,5	36,4	56,6	36,4	30	23,5	57	depending on the model	22
2	68,8	112	4	M27	32	3,2	34	23	2	12,5	42,6	62,8	47,6	36	31,3	64	depending on the model	30

### Part Number

Housing	1	1	2	2	1	1	1	2	1	1	2
Number of Contacts	12	19	27	37	3	4	7	12	3	4	7
L ø mm	1	1	1	1	1,6	1,6	1,6	1,6	2,4	2,4	2,4

#### Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	637 012 506	637 019 506	637 027 506	637 037 506						637 404 506	
Female cable connector*	638 072 006	638 079 506	638 087 506	638 097 506			638 774 506			638 474 506	
Male coupler connector*	639 072 506	639 079 506									
Cable clamps	530 115 006	530 115 006	530 145 006	530 145 006	530 115 006	530 115 006	530 115 006	530 145 006	530 115 006	530 115 006	530 145 006
Flat-Gasket for panel connector	536 945 006	536 945 006	536 946 006	536 946 006	536 945 006	536 945 006	536 945 006	536 946 006	536 945 006	536 945 006	536 946 006
L (sachet de 10)											

Crimp tool with positioner 579 481 006

Tool for insertion and removing contact ø 1 mm 597 104 006, 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	637 112 506	637 119 506	637 127 506	637 137 506						637 504 506	
Male cable connector*	638 172 506	638 179 506	638 187 506	638 197 506			638 717 506			638 474 506	
Female coupler connector*	639 172 506										
Cable clamps	530 115 006	530 115 006	530 145 006	530 145 006	530 115 006	530 115 006	530 115 006	530 145 006	530 115 006	530 115 006	530 145 006
Flat-Gasket for panel connector	536 945 006	536 945 006	536 946 006	536 946 006	536 945 006	536 945 006	536 945 006	536 946 006	536 945 006	536 945 006	536 946 006
L (sachet de 10)											

Crimp tool with positioner 579 481 006

Tool for insertion and removing contact ø 1 mm 597 104 006, ø 1,6 mm 577 454 006, ø 2,4 mm 577 458 006

- The panel connector is sold with a flat-gasket for the panel connector, 4 screws, 4 nuts and 4 washers.
- Female 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.  
Contact No. 1 is connected by a green/yellow wire to the barrel of the cable connector, the panel connector and the coupler connector, removable contact used as a ground contact.
- **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.
- All connectors are delivered with their contacts.
- Thermocouple contacts can be fitted. See: Accessories.
- ⚠ \* Please choose the accessoires one size taller as the corresponding connectors and coupler connectors.

### Technical Data

#### RoHS

Panel connector



Cable connector



Coupler connector



Panel connector, cable connector  
and coupler connector

rectangular housing

Locking

screw connection

Protection

IP 65 with flat-gasket for panel connector (supplied with the panel connector)

Contacts

17 contacts: 13 contacts  $\varnothing$  1 mm and 4 contacts  $\varnothing$  2,4 mm, crimp or solder removable contacts

Max. current

7 A  $\varnothing$  1 mm – 30 A  $\varnothing$  2,4 mm

Mechanical endurance

1000 locking and mating cycles

Contact resistance between pin and socket

$< 0,0020 \Omega$   $\varnothing$  1 mm –  $< 0,0010 \Omega$   $\varnothing$  2,4 mm

Breakdown voltage

at 20 °C, at sea-level:  $>2500$  Volts (RMS)

Insulation resistance

$> 5000$  M $\Omega$

Operating temperature

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

Materials

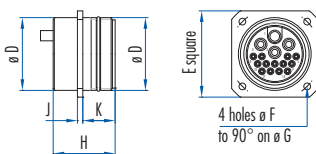
Nickel-plated alloy, gold-plated brass contacts, neoprene insert

Max. conductor cross-section

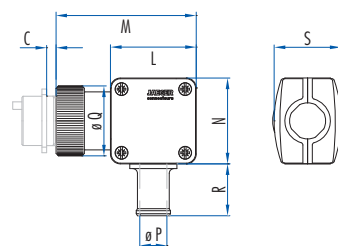
0,93 mm<sup>2</sup>  $\varnothing$  1 mm – 3,18 mm<sup>2</sup>  $\varnothing$  2,4 mm

### Dimensional Data

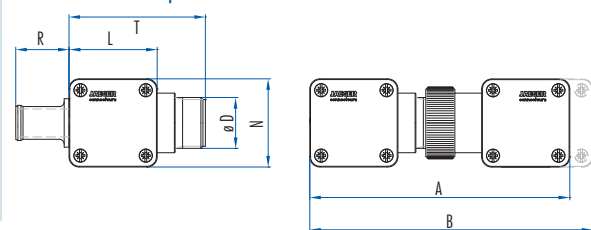
Panel connector



Panel connector and Cable connector



Cable connector and Coupler connector



Housing	Assembly	Panel connector – Cable connector – Coupler connector														Cable clamp			
		B	C	$\varnothing$ D	E	$\varnothing$ F	$\varnothing$ G	H	J	K	L	M	N	O	$\varnothing$ Q		S	T	$\varnothing$ P
2		68,8	112	4	M27	32	3,2	34	23	2	12,5	42,6	62,8	47,6	36	31,3	64	depending on the model	30

### Part Number

<b>Housing</b>	<b>2</b>
<b>Number of Contacts</b>	<b>17</b>
L ø 1 mm	13
L ø 2,4 mm	4

#### Male panel connectors – Female cable connectors – Male coupler connectors

Square male panel connector	637 017 506
Female cable connector	638 017 566
Male coupler connector	639 017 566
Cable clamps	530 145 006
Flat-Gasket for panel connector (pack of 10)	536 946 006
Protective cap for panel connector	637 825 006
Protective cap for cable connector	638 825 006

Crimp tool with positioner 579 481 006

Tool for insertion and removing contacts 1 mm 597 104 206, ø 2,4 mm 577 458 006

#### Female panel connectors – Male cable connectors – Female coupler connectors

Square female panel connector	637 117 506
Male cable connector	638 117 566
Female coupler connector	639 117 566
Cable clamps	530 145 006
Flat-Gasket for panel connector (pack of 10)	536 946 006
Protective cap for panel connector	637 825 006
Protective cap for cable connector	638 825 006

Crimp tool with positioner 579 481 006

Tool for insertion and removing contacts ø 1 mm 597 104 206, ø 2,4 mm 577 458 006

- The panel connector is sold with a flat-gasket for the panel connector, 4 screws, 4 nuts and 4 washers.
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