

# TrustLink Connectors

## Rugged reliability - excellent performance



Built with advanced technology, robust materials, and MacArtney connectivity expertise, the TrustLink series features a stainless steel construction as standard and is available in three shell sizes compatible with industry norms. These high-density connectors are suitable for the harshest marine environments, offering rugged durability and reliability. Their compact modular design is advantageous where limited space is a factor.

The TrustLink range is available in several configurations from 4 to 37 electrical contacts, along with a hybrid option incorporating 2FO and 4E contacts, as well as high-integrity, impedance-matched coaxial and power variants. Together the range offers excellent flexibility to subsea equipment and system operators.

Available in stainless steel (as standard) or titanium, it offers a service life of up to 25 years. Titanium delivers inherent corrosion resistance, whereas stainless steel may require cathodic protection, providing operators flexibility to match material choice to operational conditions.

All electrical connectors are available globally from MacArtney entities as a MacArtney-terminated assembly.

### Interchangeable male/female inserts

The TrustLink series supports interchangeable male/female inserts, allowing either type to be mounted in the same housing. This design flexibility enables easier adaptation to system requirements and simplifies connector

### integration. Highlighted specifications

- Depth rating 600 bar/8,700 psi
- Available in 3 standard shell sizes
- Up to 25 A rating
- Designed and tested to the EN 60664-1 and EN 50393-Table 5 standard

### Features and benefits

- Available globally from MacArtney entities
- CCP connectors are available in overmould and boot versions
- Interchangeable male/female inserts
- Compact modular design
- Anti-seizing surface
- Available in multiple configurations
- Terminated by MacArtney only

### Applications

- ROV/AUV/trenchers
- Naval systems and equipment
- Oceanographic systems, equipment and instrumentation solutions
- Seismic/ocean bottom systems
- Subsea nodes
- Underwater camera, video and lighting
- Survey systems and instrumentation
- Offshore oil and gas systems
- Subsea renewable systems
- Power supply for underwater pumps
- Underwater telemetry systems
- Dredging
- Harsh environment monitoring systems

### Options

- Water blocked in case of cable damage\*
- Available for pressure balanced systems\*
- Back pressure rated to 600 bar\*
- Other materials are available on request

\*Only on Power/Signal



## Specifications - Power/Signal - size A

### Electrical

	<b>4 contacts</b>	<b>8 contacts</b>	<b>12 contacts</b>
Contact size:	14 AWG	18 AWG	20 AWG
Contact size:	2.1 mm <sup>2</sup>	0.8 mm <sup>2</sup>	0.5 mm <sup>2</sup>
Voltage rating:	600 VAC/VDC	600 VAC/VDC	250 VAC/VDC
Dielectric withstand:	4,000 VAC	4,000 VAC	2,500 VAC
Current rating			
Up to 4 contacts loaded:	25 A	12 A	12 A
Current rating			
Up to 10 contacts loaded:		8 A	7 A
Current rating			
All contacts loaded:	25 A	8 A	7 A

### Materials

Housing*:	Diamond polished AISI 316 Diamond polished Titanium G II
Locking sleeves*:	Diamond polished Nickel Aluminium Bronze C63000 Diamond polished AISI 316 Diamond polished Titanium G II
Pressure cap*:	Diamond polished AISI 316 Diamond polished Titanium G II
Dust cap:	POM
Electrical insert:	Glass reinforced high performance thermoplastic
O-ring:	FPM-75

### Environmental

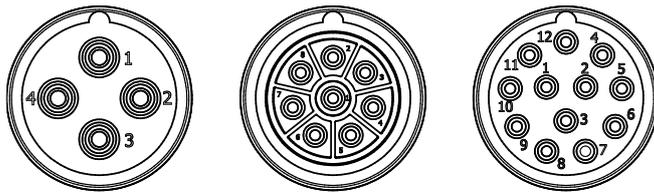
Qualified pressure tested:	Mated 720 bar/10,400 psi
Depth rating:	Mated 600 bar/8,700 psi
Temperature rating:	
Water:	-4 to 70°C/25 to 158°F
Air:	-25 to 70°C/13 to 158°F
Storage:	-25 to 70°C/13 to 158°F

### Standards

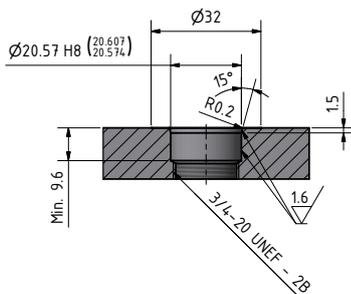
Creepage distances and clearance:	EN 60664-1, tables F2 and F4
Electrical low voltage tests:	EN 50393, table 5

\*Other materials on request

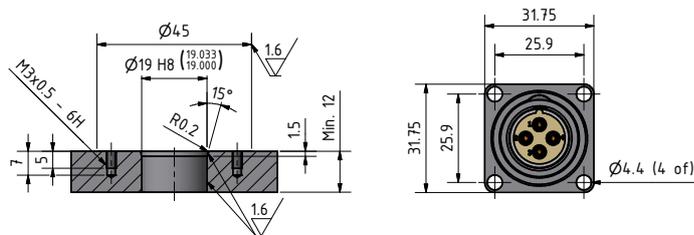
Face view (male)



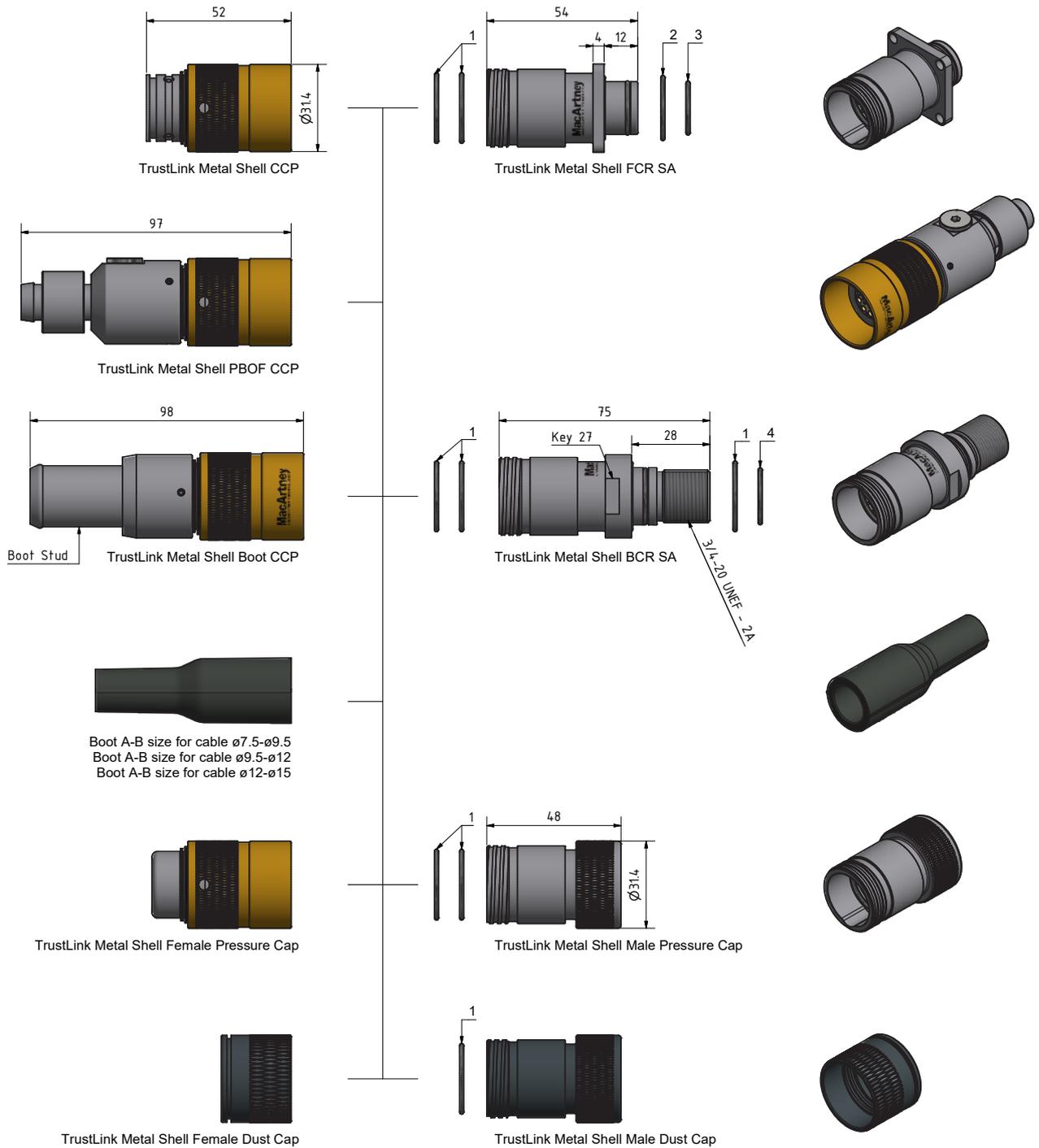
Mounting hole for BCR SA



Mounting hole for FCR SA



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O-rings:

1.  $\varnothing 22.5 \times 1.5$  FPM-75
2.  $\varnothing 20.5 \times 1.5$  FPM-75
3.  $\varnothing 16.5 \times 1.5$  FPM-75
4.  $\varnothing 17.5 \times 1.5$  FPM-75

All measurements in millimetres (mm)

For technical information  
and instructions  
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## Specifications - Power/Signal - size B

### Electrical

	16 contacts		19 contacts
Contact size:	2 x 16 AWG	14 x 20 AWG	20 AWG
Contact size:	1.3 mm <sup>2</sup>	0.5 mm <sup>2</sup>	0.5 mm <sup>2</sup>
Voltage rating:	600 VAC/VDC	250 VAC/VDC	250 VAC/VDC
Dielectric withstand:	4,000 VAC	2,500 VAC	2,500 VAC
Current rating			
Up to 4 contacts loaded:	20 A	12 A	12 A
Current rating			
Up to 10 contacts loaded:	11 A	7 A	7 A
Current rating			
All contacts loaded:	9 A	6 A	6 A

### Materials

Housing*:	Diamond polished AISI 316 Diamond polished Titanium G II
Locking sleeves*:	Diamond polished Nickel Aluminium Bronze C63000 Diamond polished AISI 316 Diamond polished Titanium G II
Pressure cap*:	Diamond polished AISI 316 Diamond polished Titanium G II
Dust cap:	POM
Electrical insert:	Glass reinforced high performance thermoplastic
O-ring:	FPM-75

### Environmental

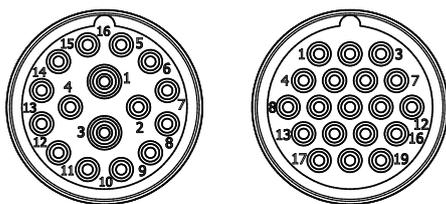
Qualified pressure tested:	Mated 720 bar/10,400 psi
Depth rating:	Mated 600 bar/8,700 psi
Temperature rating:	
Water:	-4 to 70°C/25 to 158°F
Air:	-25 to 70°C/13 to 158°F
Storage:	-25 to 70°C/13 to 158°F

### Standards

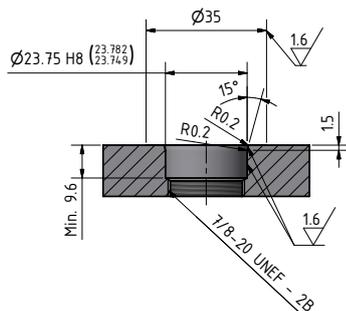
Creepage distances and clearance:	EN 60664-1, tables F2 and F4
Electrical low voltage tests:	EN 50393, table 5

\*Other materials on request

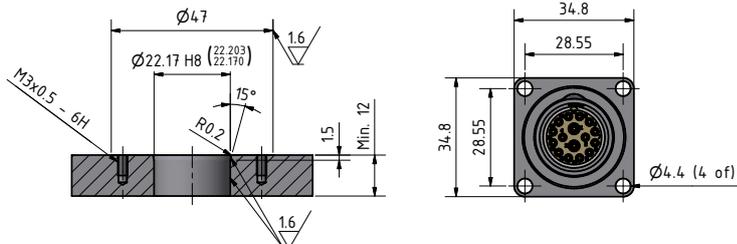
Face view (male)



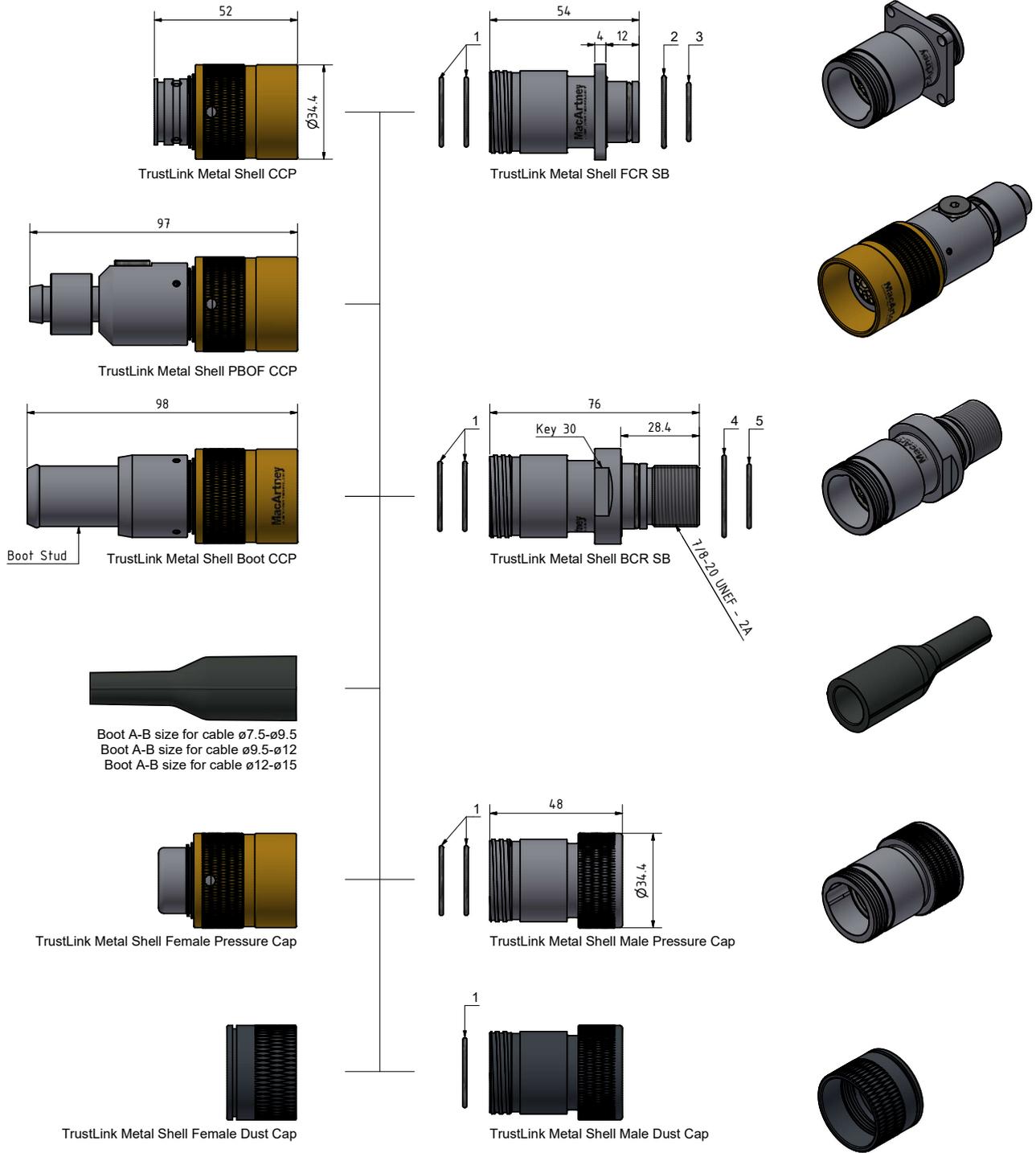
Mounting hole for BCR SB



Mounting hole for FCR SB



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O-rings:

1.  $\varnothing 22.5 \times 1.5$  FPM-75
2.  $\varnothing 23.5 \times 1.5$  FPM-75
3.  $\varnothing 18.5 \times 1.5$  FPM-75
4.  $\varnothing 27.0 \times 1.5$  FPM-75
5.  $\varnothing 20.5 \times 1.5$  FPM-75

All measurements in millimetres (mm)

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**Specifications - Power/Signal - size C**

**Electrical**

	<b>26 contacts</b>	<b>37contacts</b>
Contact size:	20 AWG	20 AWG
Contact size:	0.5 mm <sup>2</sup>	0.5 mm <sup>2</sup>
Voltage rating:	250 VAC/VDC	250 VAC/VDC
Dielectric withstand:	2,500 VAC	2,500 VAC
Current rating		
Up to 4 contacts loaded:	12 A	12 A
Current rating		
Up to 10 contacts loaded:	7 A	7 A
Current rating		
All contacts loaded:	5 A	5 A

**Materials**

Housing*:	Diamond polished AISI 316 Diamond polished Titanium G II
Locking sleeves*:	Diamond polished Nickel Aluminium Bronze C63000* Diamond polished AISI 316 Diamond polished Titanium G II
Pressure cap*:	Diamond polished AISI 316 Diamond polished Titanium G II
Dust cap:	POM
Electrical insert:	Glass reinforced high performance thermoplastic
O-ring:	FPM-75

**Environmental**

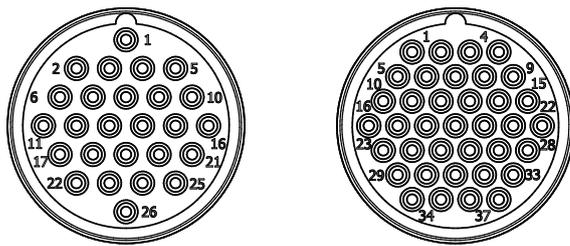
Qualified pressure tested:	Mated 720 bar/10,400 psi
Depth rating:	Mated 600 bar/8,700 psi
Temperature rating:	
Water:	-4 to 70°C/25 to 158°F
Air:	-25 to 70°C/13 to 158°F
Storage:	-25 to 70°C/13 to 158°F

**Standards**

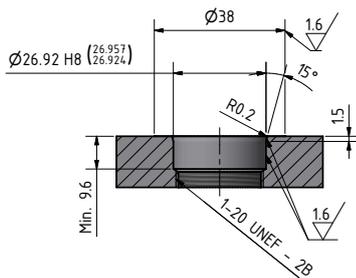
Creepage distances and clearance:	EN 60664-1, tables F2 and F4
Electrical low voltage tests:	EN 50393, table 5

\*Other materials on request

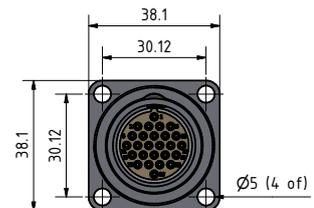
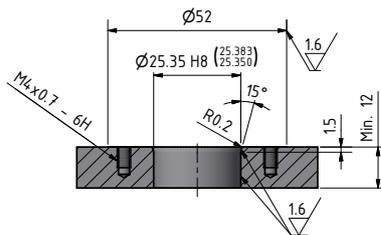
Face view (male)



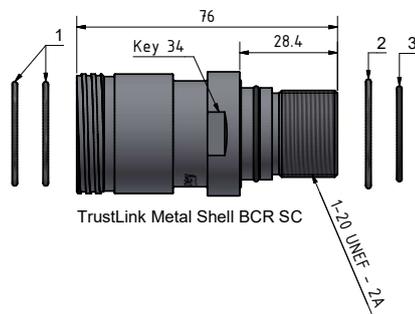
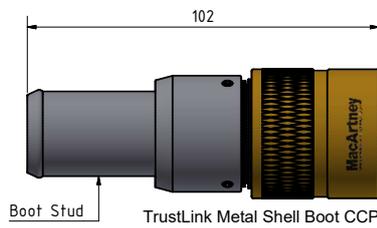
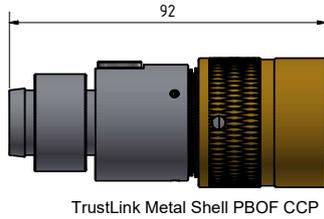
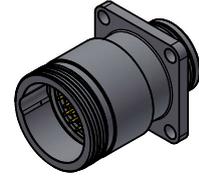
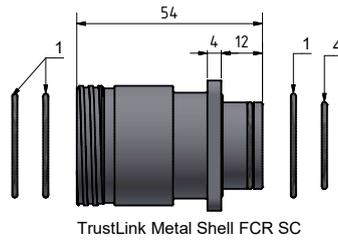
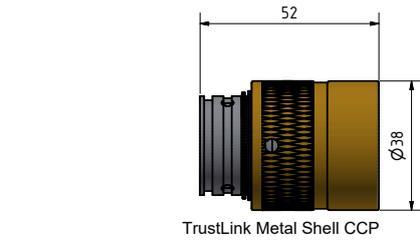
Mounting hole for BCR SC



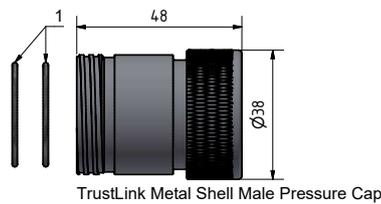
Mounting hole for FCR SC



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Boot C size for cable  $\phi 8$ - $\phi 10$   
 Boot C size for cable  $\phi 10$ - $\phi 12$   
 Boot C size for cable  $\phi 12$ - $\phi 15$   
 Boot C size for cable  $\phi 15$ - $\phi 18$



O-rings:

1.  $\phi 27.5 \times 1.5$  FPM-75
2.  $\phi 29.0 \times 1.5$  FPM-75
3.  $\phi 24.5 \times 1.5$  FPM-75
4.  $\phi 22.5 \times 1.5$  FPM-75

Blind plug:

6. 3/16" SAE port (Thread 3/8"-24UNF)

All measurements in millimetres (mm)

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## Specifications - Coax - size B

### Coax

	<b>50Ω</b>	<b>75Ω</b>
Frequency range:	Up to 4 GHz	Up to 4 GHz
Coax cable:	RG58(2550CC)	RG59(2575CC)
Coax pigtail (standard):	RG174 w SMB	RG179 w SMB
Voltage rating on coax:	600 V (pollution 2)	600 V (pollution 2)

### Electrical

Contact size:	<b>6 contacts</b> 18 AWG
Contact size:	0.8 mm <sup>2</sup>
Voltage rating:	250 VAC/VDC
Dielectric withstand:	2,500 VAC
Current rating all contacts loaded:	10 A

### Materials

Housing*:	Diamond polished AISI 316
Locking sleeves*:	Diamond polished Titanium G II
	Diamond polished
	Nickel Aluminium Bronze
	C63000
Pressure cap*:	Diamond polished AISI 316
	Diamond polished Titanium G II
	Diamond polished AISI 316
Dust cap:	POM
Electrical insert:	Glass reinforced high performance thermoplastic
O-ring:	FPM-75

### Environmental

Qualified pressure tested:	Mated 720 bar/10,400 psi
Depth rating:	Mated 600 bar/8,700 psi
Temperature rating:	
Water:	-4 to 70°C/25 to 158°F
Air:	-25 to 70°C/13 to 158°F
Storage:	-25 to 70°C/13 to 158°F

### Standards

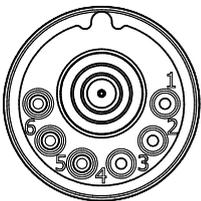
Creepage distances and clearance:	EN 60664-1, tables F2 and F4
Electrical low voltage tests:	EN 50393, table 5

\*Other materials on request

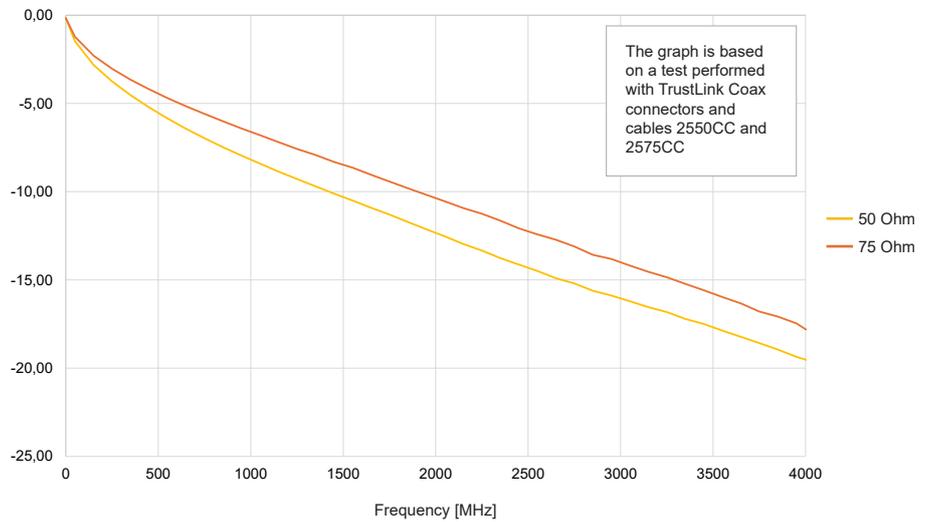
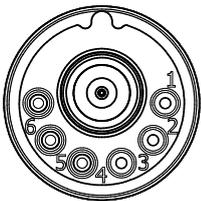
### Recommended cable

Type 2550CC or 2575CC

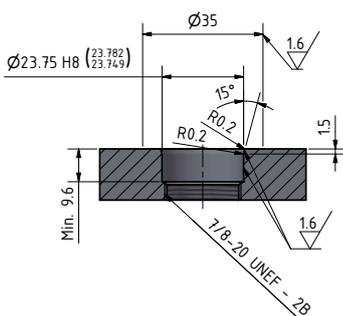
Face view (CX50 male)



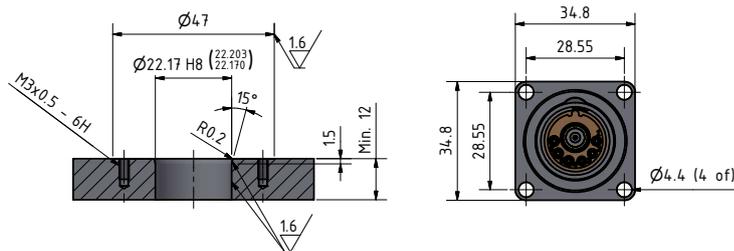
Face view (CX75 male)



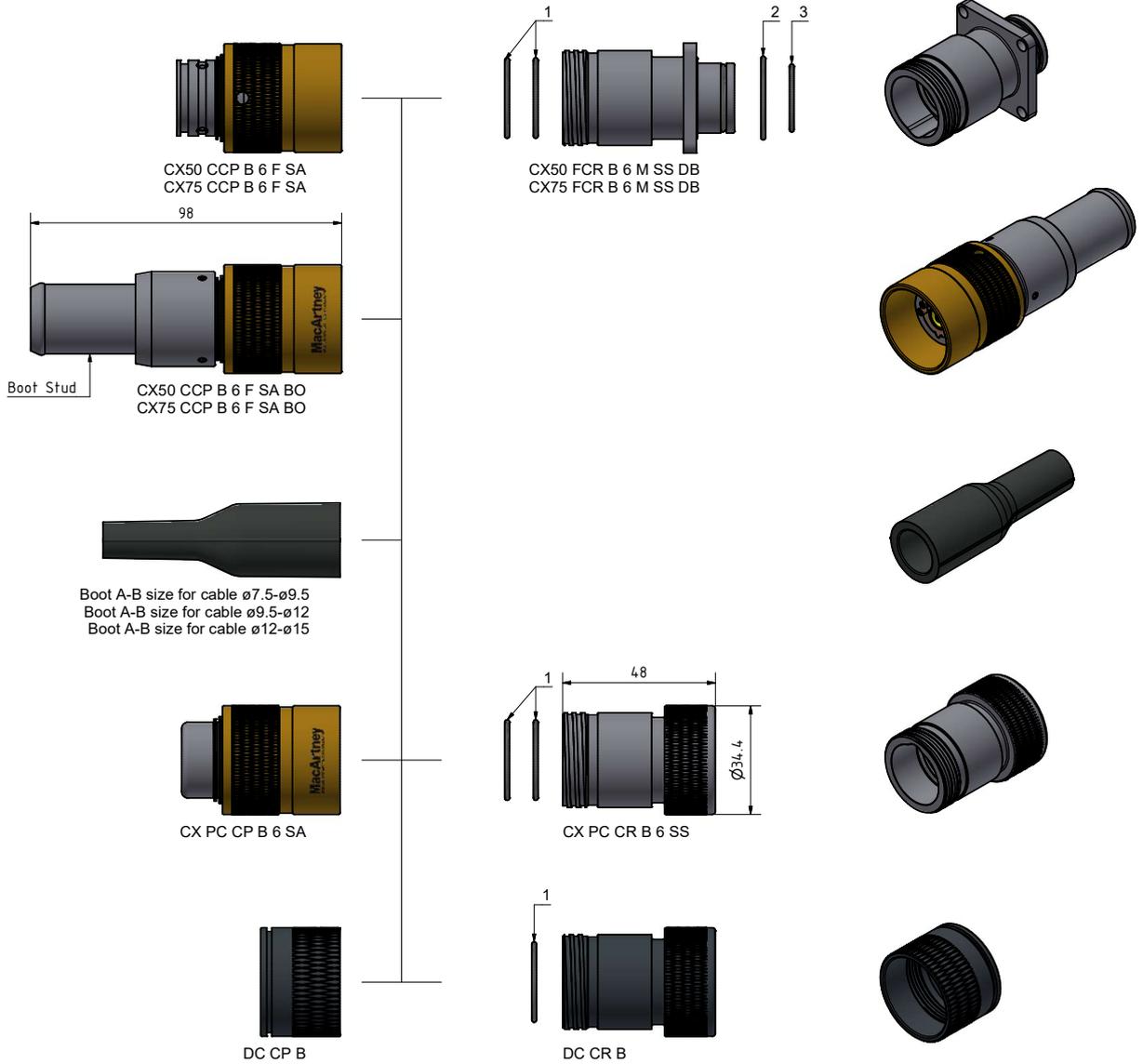
Mounting hole for BCR B



Mounting hole for FCR B



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O-rings:

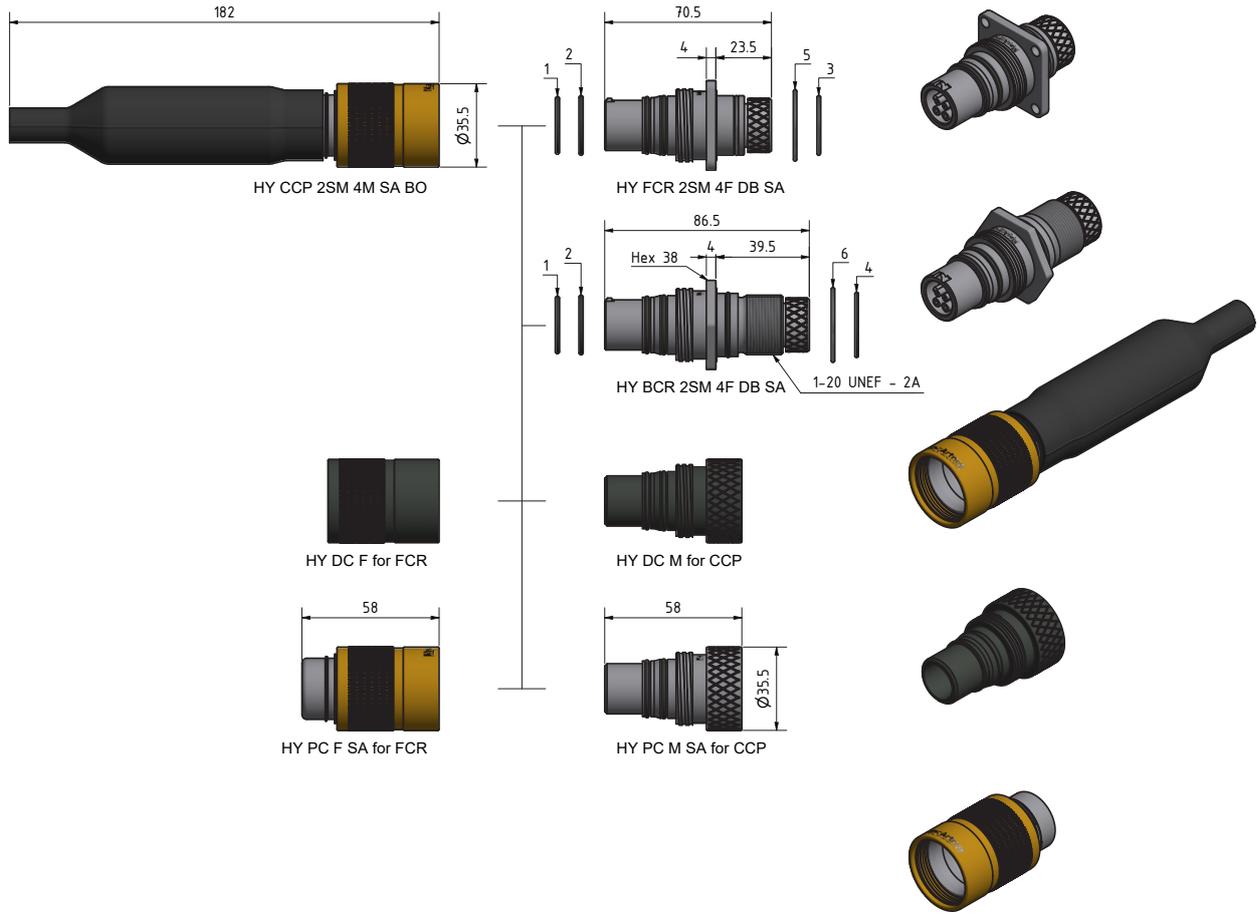
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5.  $\varnothing 20.5 \times 1.5$  FPM-75

All measurements in millimetres (mm)

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O-rings:

1.  $\varnothing 20.35 \times 1.78$  FPM-75
2.  $\varnothing 21.95 \times 1.78$  FPM-75
3.  $\varnothing 22.50 \times 1.50$  FPM-75
4.  $\varnothing 24.50 \times 1.50$  FPM-75
5.  $\varnothing 27.50 \times 1.50$  FPM-75
6.  $\varnothing 29.00 \times 1.50$  FPM-75

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