

# TrustLink™ Coax



## High-integrity coax and power in a compact, impedance-matched subsea assembly

The TrustLink Coax connector is impedance-matched to maintain signal integrity at high frequencies, ideal for HD video, radar and telemetry. Supporting low-attenuation signal transfer up to 4 GHz, it delivers consistent performance in demanding marine and offshore environments.

TrustLink Coax is built for long-term deployment at depth, with a pressure rating of up to 600 bar. The connector is available in stainless steel or titanium, allowing operators to match material choice to operational conditions. Titanium for maximum corrosion resistance, stainless steel for standard applications.

By combining coaxial and power within a single, compact assembly, TrustLink Coax reduces the number of required connections and streamlines system integration. With a compact footprint and the modular design principles of the TrustLink range, the connector fits into tight installation spaces.

Each cable harness solution is delivered as a fully terminated MacArtney assembly, ensuring quality control and deployment-ready reliability.

■ Latest revision  
■ available online



### Applications

- HD video transmission in subsea vehicles and platforms
- Radar and telemetry systems
- Oceanographic research equipment
- Naval and offshore energy installations
- Subsea robotics and monitoring systems

### Options

- Custom cable terminations and assembly lengths
- Variation of RG types available
- Booted versions
- Custom materials on request

## Specifications - Coax - size B

### Coax

	50Ω	75Ω
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)

### 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

\*Other materials on request

### Electrical

	6 contacts
Contact size:	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

### 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

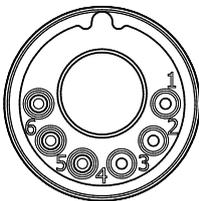
### Standards

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

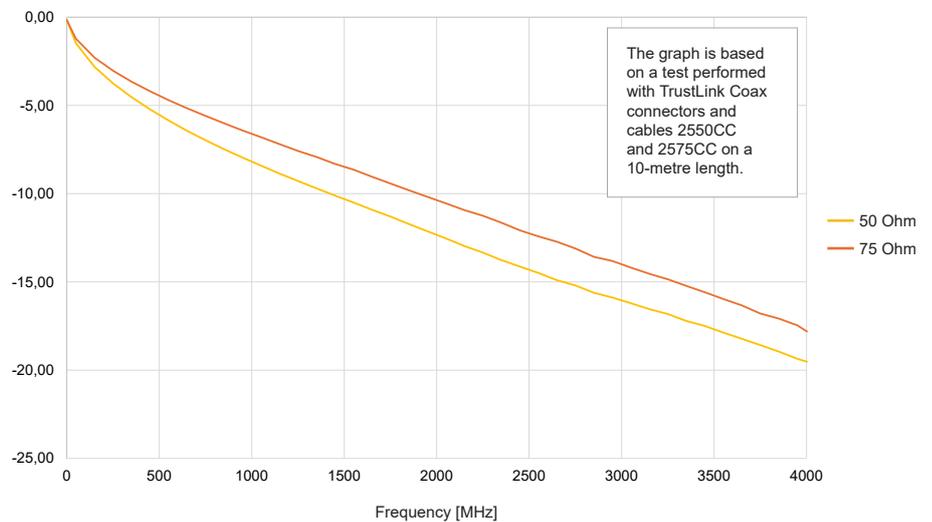
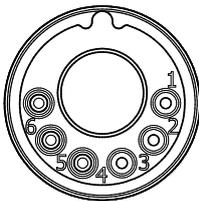
### Recommended cable

Type 2550CC or 2575CC

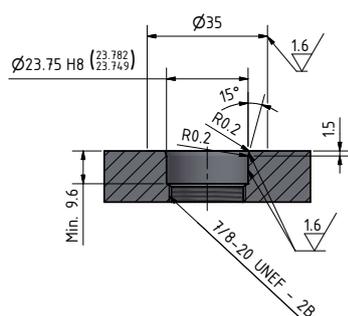
Face view (CX50 male)



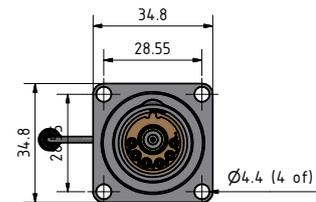
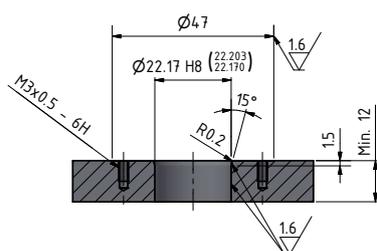
Face view (CX75 male)



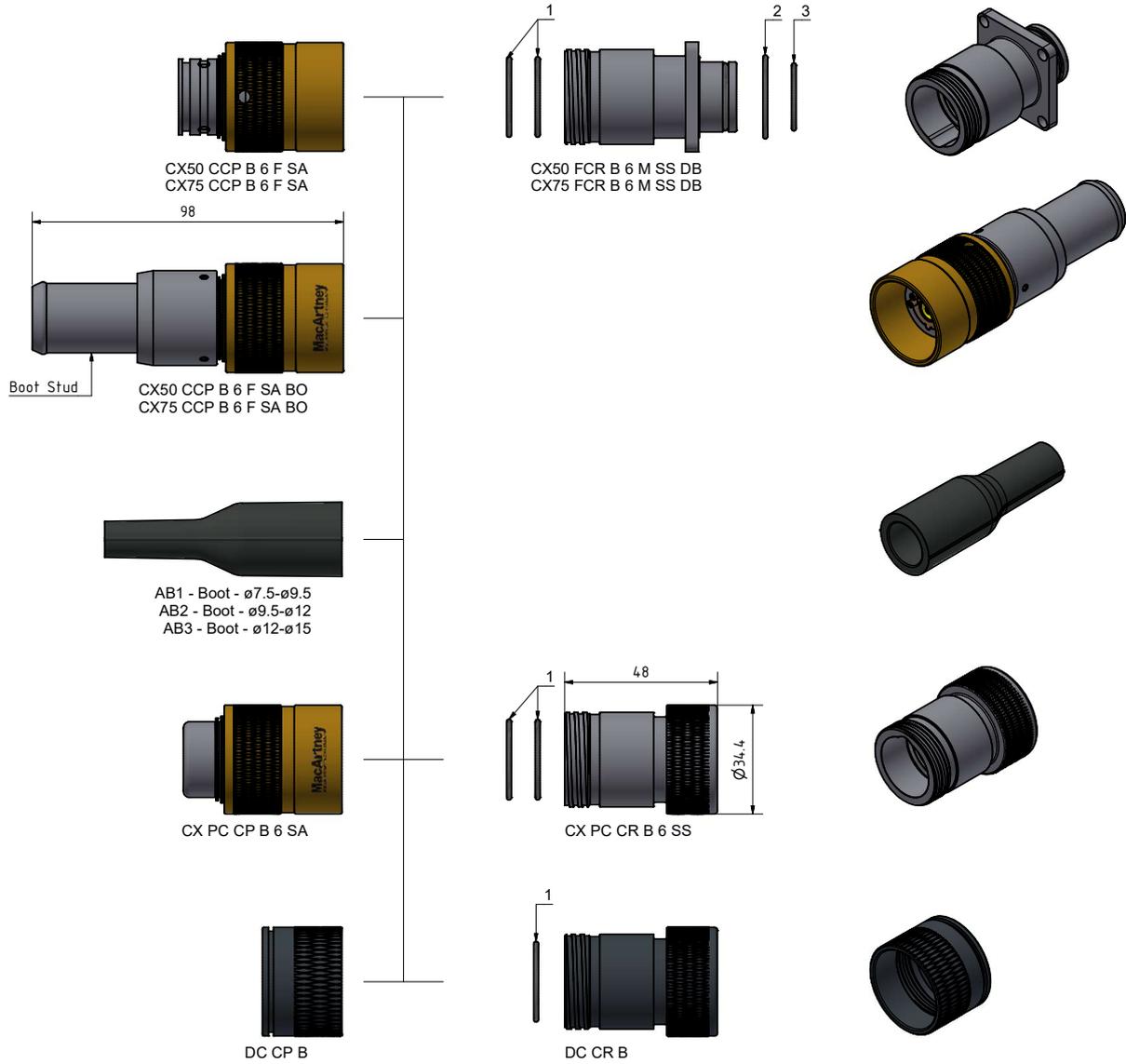
Mounting hole for BCR B



Mounting hole for FCR B



Terminated by MacArtney only.



O-rings:

1. ø22.5 x 1.5 FPM-75
2. ø23.5 x 1.5 FPM-75
3. ø18.5 x 1.5 FPM-75
4. ø27.0 x 1.5 FPM-75
5. ø20.5 x 1.5 FPM-75

All measurements in millimetres (mm)

For technical information  
and instructions

Scan QR code



**”** *TrustLink Coax integrates seamlessly into tight configurations and supports both signal and power to depths of up to 6,000 metres. It meets the operational realities our customers face from seabed to surface.*



## Part number list

### TrustLink Coax

CX50 CCP B 6 F SS BO AB3

			CX50	CCP	B	6	F	SS	BO	AB3
<b>Range</b>	<b>CX50</b>	50 Ω Coax								
	<b>CX75</b>	75 Ω Coax								
<b>Type</b>	<b>CCP</b>	Cable Connector Plug								
	<b>FCR</b>	Flange Connector Receptacle								
	<b>BCR</b>	Bulkhead Connector Receptacle								
<b>Shell size</b>	<b>B</b>	B size								
<b>Contacts</b>	<b>6</b>	Number of contacts								
<b>Gender</b>	<b>F</b>	Female								
	<b>M</b>	Male								
<b>Material</b>	<b>SA</b>	Body: Stainless Steel, Locking sleeve: Aluminium Bronze								
	<b>SS</b>	Stainless Steel (AISI 316)								
	<b>TI</b>	Titanium (Gr. 2)								
<b>Sealing</b>	<b>DB</b>	Dry Box								
	<b>OM</b>	Overmould								
	<b>BO</b>	Boot stud								
<b>Boot size or pigtail</b>	<b>AB1</b>	Boot for cable ø7,5-ø9,5								
	<b>AB2</b>	Boot for cable ø9,5-ø12								
	<b>AB3</b>	Boot for cable ø12-15								
	<b>1.0 SMB</b>	Straight mini SMB RG 174 or 179 (1.0 = Length in metre)								