

# TrustLink™ Data



## High-speed clarity at depth with 10Gbit/s assured to 6,000 m

TrustLink Data is a complete harness solution that delivers assured 10Gbit/s data transmission across cable assemblies up to 10 metres, tested and qualified to operate at 600 bar.

Designed for modern sensors, sonar platforms and real-time underwater operations, it preserves signal integrity throughout the entire connection for advanced systems in marine and offshore, ocean science and naval applications.

TrustLink Data combines a 19-contact connector, a purpose-engineered MacArtney data cable and controlled terminations to operate as an integrated unit. In this configuration, the transmission section forms a CCP–Cable–CCP harness, while the full assembly includes FCR/BCR terminations at each end to ensure reliable, high-data-rate performance.

The assembly integrates easily into new or existing setups, providing a robust and practical solution that reduces uncertainty and supports confident decision-making in data-driven underwater operations.

Delivered as a terminated assembly by MacArtney only, as a complete harness solution or a cable harness.

Latest revision  
available online



### Applications

- ROVs and AUVs
- Subsea control systems
- Oceanographic monitoring networks and subsea observatories
- Offshore wind and renewable energy arrays
- Seismic, survey and environmental monitoring systems
- Underwater imaging, sonar and sensing platforms
- Naval platforms and critical defence and security installations

### Options

- Three MacArtney data cable types
- Custom lengths up to 75 m at 1Gbit/s - 10Gbit/s assured at 10 m
- Booted versions
- Custom materials on request

## Specifications - Data - size B

### Data

	<b>9 contacts incl. screen</b>
Data rate:	10Gbit/s (10 metres)
Data rate:	1Gbit/s (75 metres)
Impedance:	104 $\Omega \pm 10 \Omega$

### 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

### Electrical

	<b>10 contacts</b>
Contact size:	10 x 20 AWG
Contact size:	0.5 mm <sup>2</sup>
Voltage rating:	250 VAC/VDC
Dielectric withstand:	2,500 VAC
Current rating up to 4 contacts loaded:	12 A
Current rating up to 10 contacts loaded:	7 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
Data tests:	RFC 2544 and ITU-T Y.1564

### Recommended cable

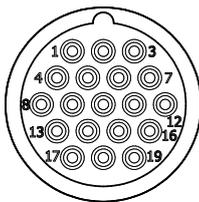
Type 9880CC or 9880KCC

### FCR/BCR pigtail

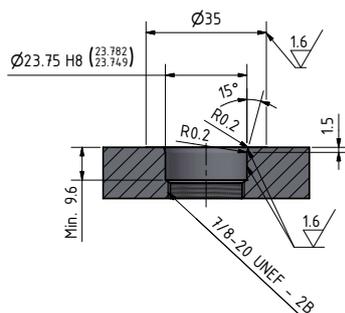
Delivered with 1m CAT7 w. screened RJ45

\*Other materials on request

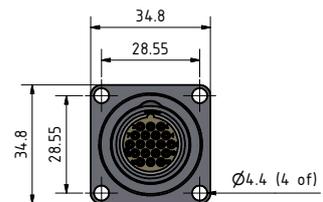
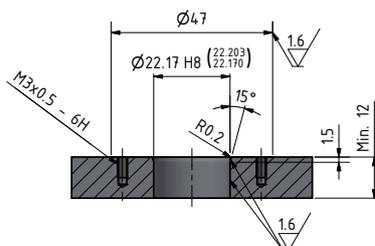
Face view (male)



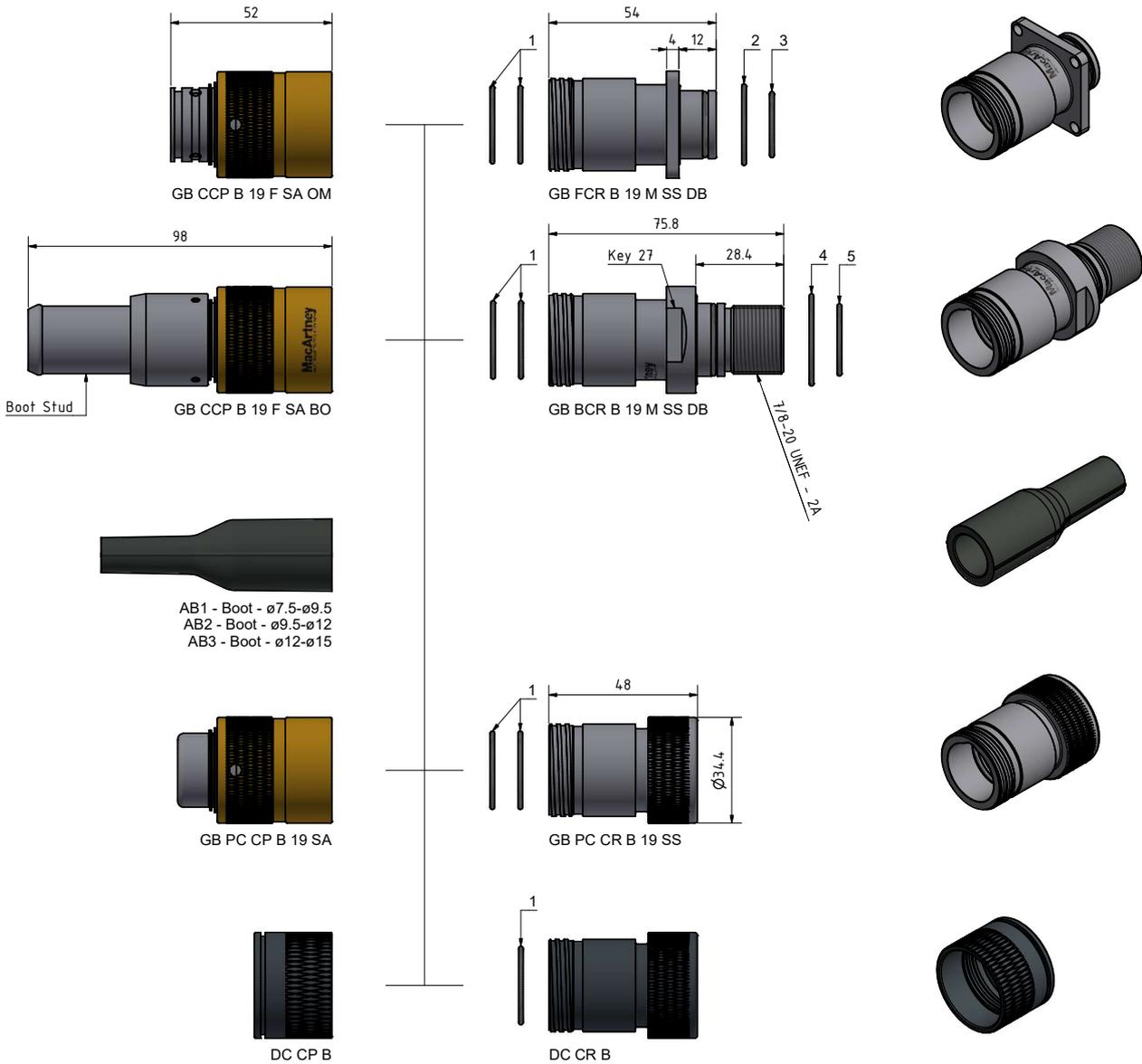
Mounting hole for BCR B



Mounting hole for FCR B



Delivered as a terminated assembly by MacArtney only



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)

For technical information  
and instructions

Scan QR code



**”** Underwater applications require clean, uninterrupted data to perform reliably. When you picture real-time sonar tracking the seabed with clarity, the quality of the connection delivering that information becomes essential. TrustLink Data provides this through a complete harness solution that carries both power and data with confidence and speed.



## Part number list

### TrustLink Data

GB CCP B 19 F SA BO AB3

	GB	CCP	B	19	F	SA	BO	AB3
<b>Range</b>	GB	Data						
<b>Type</b>	CCP	Cable Connector Plug						
	FCR	Flange Connector Receptacle						
	BCR	Bulkhead Connector Receptacle						
<b>Shell size</b>	B	B size						
<b>Contacts</b>	19	Number of contacts						
<b>Gender</b>	F	Female						
	M	Male						
<b>Material</b>	SA	Body: Stainless Steel, Locking sleeve: Aluminium Bronze						
	SS	Stainless Steel (AISI 316)						
	TI	Titanium (Gr. 2)						
<b>Sealing</b>	DB	Dry Box						FCR and BCR
	OM	Overmould						CCP
	BO	Boot stud						CCP
<b>Boot size</b>	AB1	Boot for cable ø7,5-ø9,5						A and B size
	AB2	Boot for cable ø9,5-ø12						A and B size
	AB3	Boot for cable ø12-15						A and B size