

## QMICRO FO PLUG/RECEPTACLE ASSEMBLY

### APPLICATIONS

- Field-deployable communications;
- Marine ship-to-shore applications;
- Oil and gas exploration;
- Broadcast and Entertainment;
- Other Harsh Environment Applications.



### PRODUCT FACTS

Reinforced cable assemblies specially designed for use in harsh field conditions. QMicro Expanded Beam connectors are a smaller version of the standard QMini Expanded Beam connectors which are designed in accordance with MIL-PRF-83526/20 & /21, so allows you to use these assemblies in more compact solutions. Can be supplied on lightweight cable drums on trolleys, which simplify the installation of assemblies and protect connectors during storage.

### PRODUCT SPECIFICATIONS

CABLE PARAMETERS	
Fiber Count	2/4
Cable Construction	Round Cable
Jacket Material	UV-resistant Polyurethane Compound
Jacket Colour	Black
Fiber Type	SM OS2 or MMF (OM2/OM3/OM4)
Outer Diameter	4,4/5,9 mm
CONNECTOR PARAMETERS	
Interface, Connector A	QMicro Expanded Beam connector plug
Interface, Connector B	QMicro Expanded Beam Receptacle Jam Nut / QMicro Expanded Beam Receptacle Flange Mount / QMicro Expanded Beam Receptacle Flange Mount RX
Intermateability, Connector A	MIL-PRF-83526/20 & /21
Intermateability, Connector B	MIL-PRF-83526/20 & /21
Material/Colour, Connector A	6061-T6 Aluminum/303 Stainless Steel/Olive Drab Zinc-Nickel/Black Zinc-Nickel Black
Material/Colour, Connector B	6061-T6 Aluminum/303 Stainless Steel/Olive Drab Zinc-Nickel/Black Zinc-Nickel Black
Colour, Boot Connector A	Black
Colour, Boot Connector B	Black
Polish type, Connector A	PC
Polish type, Connector B	PC
Insertion Loss, Connector A	Typical – 0,7dB @1300nm for MM; 0,7dB @1310 or 1550nm for SM (tested with RC)
Insertion Loss, Connector B	Typical – 0,7dB @1300nm for MM; 0,7dB @1310 or 1550nm for SM (tested with RC)
Return Loss, Connector A	> 34 dB @ 1310 or 1550 nm for SM
Return Loss, Connector B	> 34 dB @ 1310 or 1550 nm for SM
Connector A, quantity	1
Connector B, quantity	1
Polarity	on request (Type A, Type B)

MECHANICAL PERFORMANCE	
Tensile strength	1600/2300 N (short term); 1100/1380 N (long term)
Min. bend radius for installation	44/59 mm
Max. crush resistance	2000/800 N/cm
Repeated Bending	10 000 cycles
TEMPERATURE RANGE	
Installation	-46°C +85 °C
Operation	-46°C +85 °C
Storage	-55°C +85 °C
IDENTIFICATION	
Traceability label with unique serial number on both ends	
PACKAGING	
Each assembly is packed in a plastic bag, several assemblies are packed in a cardboard box. Long assemblies can be supplied on an aluminum or steel drum (on request)	