

QMINI FO FLANGE MOUNT RECEPTACLE / SINGLEFIBER CONNECTORS 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. On one side of the Assembly is a receptacle QMini which is made in the form of a Square Flange (in accordance with Mil-DTL-83526/21), and on the other standard optical single-fiber connectors.

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	QMini Expanded Beam Receptacle Flange Mount
Interface, Connector B	FC/LC/SC/ST
Intermateability, Connector A	MIL-PRF-83526/20
Intermateability, Connector B	IEC Standard Industry Connectors
Material/Colour, Connector A	6061-T6 Aluminum/303 Stainless Steel/Olive Drab Zinc-Nickel/Black Zinc-Nickel Black
Material/Colour, Connector B	Green/blue/black/turquoise/beige/metallic (for FC, ST)
Colour, Boot Connector A	-
Colour, Boot Connector B	Green/blue/black/turquoise/beige
Polish type, Connector A	PC
Polish type, Connector B	UPC/APC
Insertion Loss, Connector A	Typical – 0,7dB @1300nm for MM; 0,7dB @1310 or 1550nm for SM (tested with RC)
Insertion Loss, Connector B	< 0,25dB @850nm for MM; <0,3bB @1310nm for SM(According to IEC61300-3-4, Method B)
Return Loss, Connector A	> 34 dB @ 1310 or 1550 nm for SM
Return Loss, Connector B	> 35 dB @850nm for MM; > 50 dB @1310 nm for UPC SM(According to IEC 61 300-3-6) > 60 dB @1310 for APC SM (According to IEC 61 300-3-6)
Connector A, quantity	1
Connector B, quantity	2/4

Polarity	on request (Type A, Type B)
MECHANICAL PERFORMANCE	
Tensile strength (to cable)	1600/2300 N (short term); 1100/1380 N (long term)
Min. bend radius for installation	44/59 mm
Max. crush resistance (to cable)	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.	