

FIBRE OPTIC series

Harsh Environment
Fibre Optic Connectors



AVIONICS

BROADCAST

BATTLEFIELD
COMMUNICATIONS
C41SR

MASS TRANSIT

SHIPBOARD
SYSTEMS

OIL AND GAS

FIBRE OPTIC series



The communications field requires high speed, high reliability data transfer. Amphenol provides innovative, high quality solutions in optical connectivity enabling end users safe and consistent data transmission.

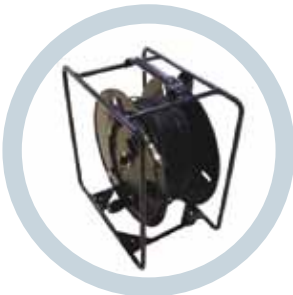


From our manufacturing capability in Kent, Amphenol offers innovative Fibre Optic connector and cable solutions to suit all types of environments. Offering both Physical Contact (PC) and Expanded Beam (EB) technologies, we have a large product portfolio for Military Communications, Industrial, Offshore, Mass Transit and Telecoms applications.

In addition to the connector range, our Whitstable facility offers high quality cable assemblies, fully optically tested and certified. Rigorous internal quality assurance systems exceed the AS9100 requirements and ensure consistent quality products.



Fibre Optic links are ideally suited for application where High Speed, High reliability, EMI/RFI immune, digital data transmission are required.



Connectors:

- PC ceramic ferrule with ceramic alignment sleeves
- Expanded Beam Ball Lens technology
- Available in Multimode & Singlemode
- Materials ranging from Aluminium to Stainless Steel
- Finishes available from Zinc Nickel to Hard Anodised
- Plug/Socket and Hermaphroditic options
- Keyed for connection protection



Cable Assemblies:

- Amphenol Spectrastrip manufactured cable
- Complete bespoke cable assemblies
- Fully optically tested and certified
- Deployable Cable reels

Total system support:

- Termination kits for installation and repair
- Impact repair kits
- Fully documented termination instructions
- Licensed and approved distribution network
- Training course capability

Key Features

- Plug & Socket or Hermaphroditic coupling
- Diameter 2.5mm PC ceramic ferrule or Expanded Beam technology
- RoHS Compliant (material & finish dependent)
- Sealed to IP68
- High temperature range
- Multimode and Singlemode compatible
- Military Tactical cable compatible
- Harsh Environment protective caps
- Optically stable connection

Typical Applications

- Battlefield Communication C4ISR
- Avionic and Shipboard Systems
- Mass Transit
- Geophysics
- Offshore
- Industrial
- Broadcast
- Disaster Recovery / Rescue
- Weapons Systems

Benefits

- Designed specifically for Harsh Environments
- Established optical technologies
- Long project pedigree
- Large product suite
- Complete system supply
- Field repairable

Typical Environmental Specifications

Vibration/Shock	MIL-STD-810F
Temperature	Operating -40°C to +70°C Storage -55°C to +85°C
Sealing	To IP68 level
Protection	Anti corrosion materials and finishes available
Field Cable Tensile Strength	1500N (Cable Dependent)
Sand & Dust	EN2591 Test C8
Durability	>2000 Mating cycles

Amphenol[®]

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