

Hermaphroditic Expanded Beam Fiber Optic Connector

Preliminary Datasheet

Features

The Amphenol AXOS fiber optic expanded beam is a miniature hermaphroditic and a cost effective connector .

MAIN CHARACTERISTICS



This product offers a robust and protected optical connection in a small size design (o.d. 27 mm) and allows to establish a variable length daisy chain link in no time outdoor as well as indoor.

The beam diameter makes the connection insensitive to environmental contamination, temperature variations or humidity.

The special design ensures an easy cleaning of the mechanical and optical connector parts.

Technical description

- 1, 2 or 4 channel plugs and receptacles with protective caps (plastic or metal).
- Hermaphroditic interface with rapid ramp coupling.
- Protective window to ensure an easy cleaning of the optical device.
- Moving coupling nut allows cleaning the front mechanical parts.
- Anticorrosion metal body with ergonomic protective rubber shell.
- Blind mateable by means of rubber shell guiding protuberances.
- Insertion Loss : 0,9 dB typically; 1,5 dB max 1300 nm.
- Operational wavelength: 850 and 1300 nm.
- Fibre size: 50/125 and 62,5/125 μm .
- Cable type: 5 to 7 mm OD Tactical tight structure.
- Durability : 1500 mating cycles.
- Operating Temperature : -40°C , $+85^{\circ}\text{C}$.
- Termination and Maintenance tool kits available.
- Tactical drums and accessories available.

Applications

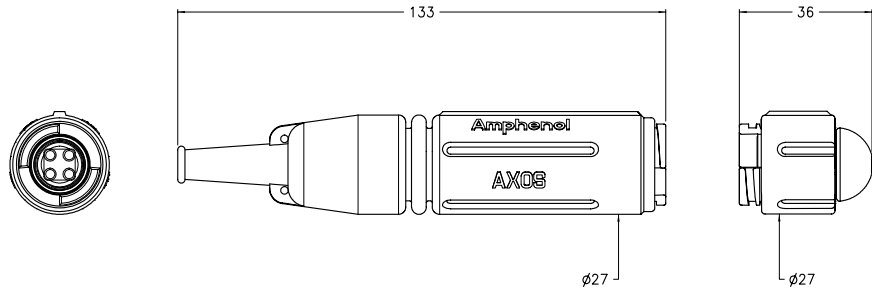
All, where hermaphroditic interface are required.

- Army, Navy and Airforce optical networks.
- Broadcasting.
- Civil security.
- Mining, geophysic.
- Temporary optical links.
- Industrial moving links.

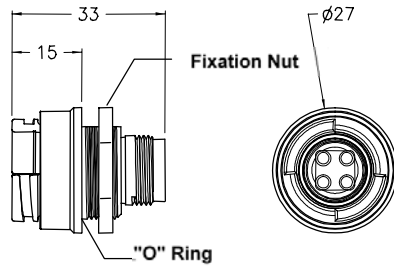
Amphenol

Line Drawings (dimensions in mm)

AXOS plug with protective cap



AXOS Front mount receptacle



How to order :

AXOS - XXXX - X - XX - X - XXX - XXX

AXOS : 976 series

- Plug : 06M
- for tactical cable
- Front mount receptacle : 07P
- for pig-tails
- Shunt attenuating cap : BSA
- Protective shunt attenuating cap : BPSA

BPP : plastic Cap
BPM : metallic Cap

All cables are tight jacket.
16 : O.D. patchcord 1,6 mm
55 : O.D. tactical 5.5 mm
Other cables possible.

Y : Wavelength 1300 nm
Z : Wavelength 840 – 1300 nm

Number of channels
1 channel: 1 2 channels : 2 4 channels : 4

01 : 50/125 µm
02 : 62.5/125 µm