CTOS

976 Series

Connector for Tactical Optical Systems



MAIN CHARACTERISTICS

This product offers a robust optical connection in a small size design (\emptyset 38 mm) and allows for rapid deployment of high speed transmission links in harsh environnements. The specific design of the lenses garanties a large beam diameter and a low loss connection insensitive to dust and dirt. The CTOS harnesses are easy to maintain on the field with the FTOS splice kit.

Technical description

• 2 or 4 channel Plugs and Receptacles (straight and 90°) and Tactical Harnesses and Test caps for maintenance

- Hermaphroditic interface with rapid ramp coupling
- 2 and 4 channel products are intermateable
- Large expanded beams with protective windows
- Stainless steel body with ergonomic rubber shell

• Typical Insertion Loss: 1.5 dB @ 1300 nm 50/125 fibre

- 2 dB @ 1300 nm 9/125 fibre
- Typical return loss : 20 dB @ 1300 nm

- 45 dB @ 1300 nm HRL 9/125 fibre

9/125 fibre

- Durability : 5000 mating/unmating cycles
- Operating Temperature : -40°C, +85°C
- Vibrations : 10 to 2000Hz, 10g, 1.5 mmp/p, 3 directions
- Bumps : 4000 Bumps, 40g, 6ms, 6 directions
- Mechanical shock: 50g, ½ sinus, 3 shocks by direction, 3 axes
 Mud resistance : Mil C 83526/13
- Free drops : 26 drops 1.2m on plywood/concrete
- Water immersion ; > 1m depth
- Salt spray : 500 hours
- Low pressure : 85 mbars 48 hours
- Termination and Maintenance FTOS tool kits available
- Tactical drums and accessories available

Features

The Amphenol CTOS Fibre Optic expanded beam connector is a miniature and lighter version of the recognized NATO 4290 Stanag CTOL connector.

The flat protective windows mounted on shock absorbers provide an easy to clean on the field surface to improve performance and protection.

Applications

- Army, Navy and Airforce optical networks
- EMI insensitive and light tactical transmission links
- Long distance battlefield communication
- Radar deployment systems

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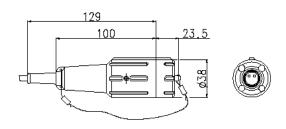
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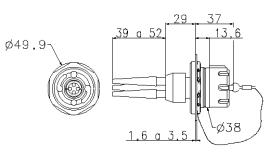
976 Series

Line Drawings (dimensions in mm)

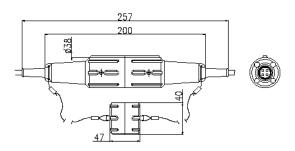
CTOS plug with protective cap



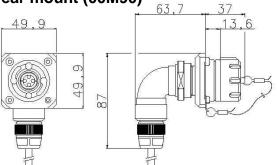
CTOS "jam nut" receptacle – rear mount (77P)

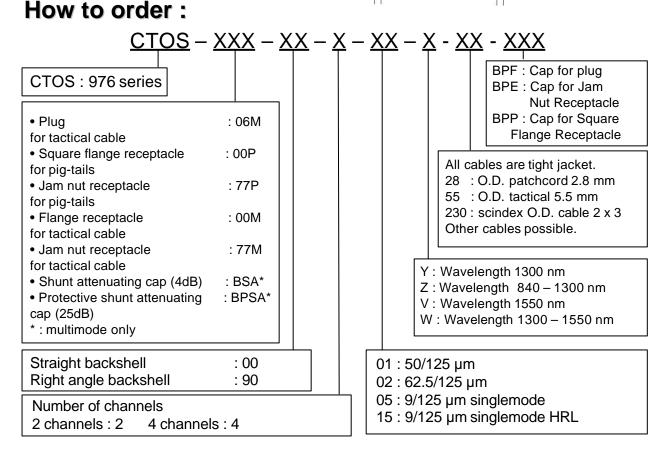


CTOS plug to plug and caps mated



CTOS square flange receptacle with 90° Backshell for tactical cable – rear mount (00M90)





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