

Amphenol

Fiber Optic Solutions

CTOS SM

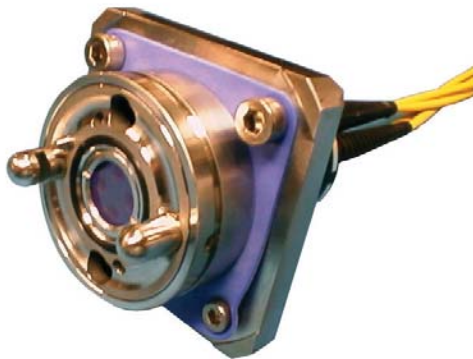
Hermaphroditic Expanded Beam
Singlemode Fiber Optic Connector

SMALL OPTICAL FIELD SINGLEMODE CONNECTOR

FEATURES

The Amphenol singlemode CTOS fiber optic expanded beam connector is a miniature and lighter version of the CTO 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 Air force optical networks
- EMI insensitive and light tactical transmission links
- Long distance battlefield communication
- Radar deployment systems



This product offers a robust optical connection in a small size design (o.d. 38 mm) and allows for rapid deployment of high speed transmission links in harsh environments.

The specific design of the lenses guaranties a large beam diameter and a low loss and high return loss connection insensitive to dust and dirt. The CTOS harnesses are easy to repair on the field with the CTOS and FTOS splice kits.

TECHNICAL DESCRIPTION

- Singlemode connector
- 1,2 or 4 channel Plugs, Receptacles and Tactical harnesses.
- Hermaphroditic interface with rapid ramp coupling
- 2 and 4 channel products are inter mateable.
- Large expanded beams with protective windows
- Stainless steel body with ergonomic rubber shell
- Typical Insertion Loss: 1.7 dB @ 1300/1550 nm 9/125 fibre
- Typical return loss: - 50 dB @ 1300/1550 nm HRL 9/125 fibre
- Durability : 5000 mating/ unmating cycles.
- Operating Temperature : -40°C, +85°C
- Vibrations : 10 to 2000Hz, 10g, 1.5 mm p/p, 3 directions
- Bumps : 4000 Bumps, 40g, 6ms, 6 directions
- Mechanical shock: 50g, 1/2 sinus, 3 shocks by direction, 3 axes
- Mud resistance : Mil C 83526/13
- Free drops : 26 drops 1.2m on concrete (plugs)
- Water immersion : > 2m depth
- Salt spray : 500 hours
- Low pressure : 85 mbars 48 hours
- Termination and Maintenance CTOS, FTOS tool kits available
- Tactical drums and accessories available
- Broadcasting
- Geophysic

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Amphenol reserves the right to change the content of this document without prior notice

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Realisation : wagen:studios - Steven Kilgallon - 01/2004
Printed in France by MenloPark

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