

Fiber Optic Connector Series

X-BEAMTECH

HXB17 CONNECTOR

FEATURES

RoHS
COMPLIANT



- Advanced expanded beam technology
- Rugged field deployable fiber optic connector
- Hermaphroditic interconnection
- 12, 14, and 16 optical channels
- Singlemode (SM) or Multimode (MM)
- Custom configurations available
- Optical/electric hybrid configurations available
- Environmental sealing (IPX8)
- Very high resistance to vibration, shock, environmental effects, dust, and debris
- Easy clean, no special tools
- No adaptors necessary
- Cables assemblies with plugs and bulkheads



DESCRIPTION

The HXB17 Connectors, featuring expanded beam technology, hermaphroditic connections, and rugged construction for field deployment and hybrid configurability, have been designed for harsh environment applications such as military tactical communications, avionics, offshore systems, outside broadcast, mining, and plants.

The expanded beam technology uses expanded and collimated beams to couple optical fibers without any contact. It could allow for optics to be used in areas that have been quite restrictive due to the presence of damage or contamination at the fiber end.

The hermaphroditic connector design enables fast deployment by daisy-chaining multiple cable segments. HXB17 connectors also enable the transfer of electrical signals or power using a hybrid insert configuration.

APPLICATIONS

- Military Communications
- Avionics, Marine
- Mining, Oil and Gas
- Rail, Transport
- Broadcast
- Telecommunications
- Medical
- Industrial

SPECIFICATION

Optical Performance

Insertion Loss	Typical 0.8 - 1.8 dB @ 1310, 1550 nm Typical 0.5 - 1.0 dB @ 850, 1300 nm	Singlemode Multimode
Return Loss	> 32 dB	Singlemode only

Mechanical Performance

Durability	3,000 mating cycles
Operating Temperature	-40 °C to 85 °C
Storage Temperature	-55 °C to 85 °C
Water Immersion	Up to 15 m
Free Fall	500 falls @ 1.2 m
Vibration	10 - 500 Hz, 3 axis, 0.75 mm, 10 g
Shock	11 ms, 3 axis, 50 g