



QBeam

4 Channel Expanded Beam Connector

Key Features



- Expanded Beam technology
- Multimode
- Hermaphroditic Interface
- 4 Channels
- Durable Black Anodised Finish
- Easy clean, protective window
- Fully sealed construction
- Compatible with Amphenol CTOS®

The QBeam 4 Channel Expanded Beam Fibre Optic Connector has been designed to the latest MIL requirements. The expanded beam connector uses a drum lens to collimate the signal at many times the original diameter.

This technology makes the connector very resistant to shock, vibration and environmental issues. Because the system is non-contact, the connector life is in excess of 5,000 mating cycles. The protective window is easy to clean and makes the connector ideal for field use in extreme conditions.

The hermaphroditic design allows multiple cables to be directly connected without adaptors or receptacles (daisy chained).



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Specification

Insertion Loss	0.75 – 2.0dB Max - Multimode
Return Loss	Matte Black Hard Anodize: 6061-T6 Aluminium; Anodize per MIL-A-8625 TYPE III CLASS 2, .0022/.0018 Thick (50% Penetration), Metal Finishing; Bead Blast for Matte Finish; Matte Black Stainless Steel: 303 Stainless Steel; Passivate Per QQ-P-35
Mating Durability	5000 cycles
Operating Temperature	-40°C to +85°C
Impact	8 Impacts @ 8FT (2.5MT), EIA/TIA-455-2
Corrosion Resistance	500 Hours Salt Spray
Vibration	10 to 2000Hz / 10g
Mechanical Shock	50g for 11ms, EIA/TIA-455-14, Condition A
IP Rating	IP68 - Dust Tight; No ingress of dust; complete protection against contact; Water Immersion Beyond 1 Meter Testing Conditions & Duration – Plug with Dust Cover and Mated Plug / Receptacle, 3 Meters for 24 Hours