

Fibreco Dura-Con™ Expanded Beam Fiber Optic Connector

The Cinch Advantage

Fibreco Dura-Con™ Expanded Beam fiber optic connectors have been designed to combine proven Cinch fiber optic expanded beam technology with the durability of our high-reliability Dura-Con™ connectors. These connectors are capable of meeting extreme mechanical needs in the harshest environments, including military/ aerospace and industrial applications, such as downhole drilling.

The connectors are simple to use - they are terminated using an epoxy-polish ferrule termination process with standard fiber optic termination tools and equipment. The terminated ferrules are simply inserted into the expanded beam housing and fixed in place via a spring and cover-plate. Ferrule alignment to the lenses is achieved automatically by the unique optical arrangement developed and patented by Cinch-Fibreco.

The Fibreco Dura-Con™ Expanded Beam connector is easy to clean, and in the event that the connector suffers damage in use, the design enables replacement of the expanded beam insert, connector front body and grip ring without the need to re-terminate the fibers.

Fibreco Dura-Con™ Expanded Beam connectors offer reliable performance combined with a simple termination process allowing rapid in-field termination and repair.

Features

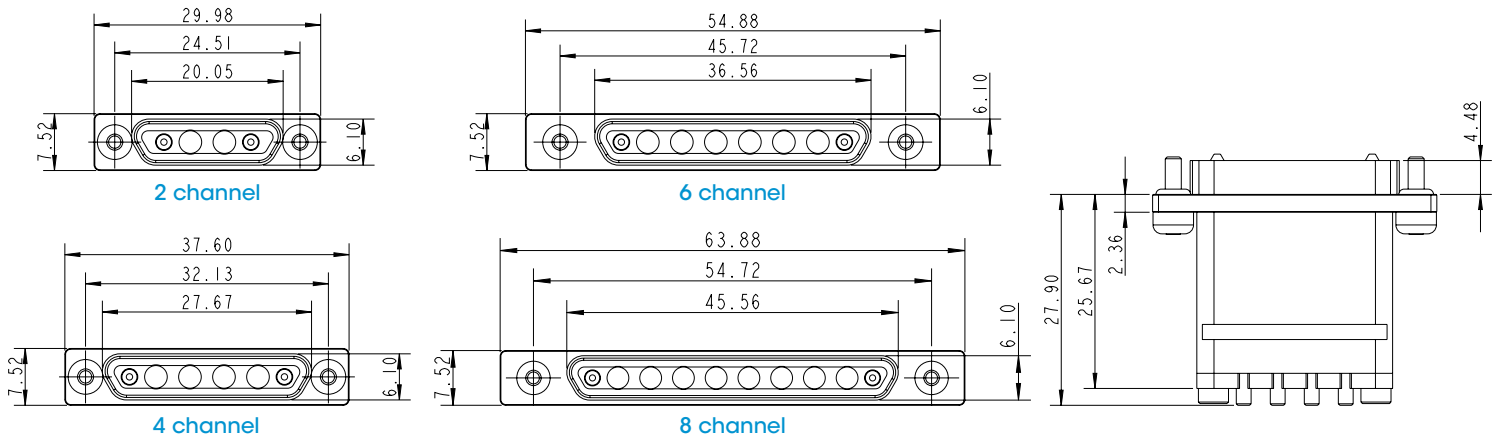
- Singlemode and Multimode Options
- Field terminable using standard termination tools & equipment
- Field repairable: EB insert & shell parts replaceable / re-useable
- 2,4,6 & 8 channel options
- Front and rear mounted flange options
- Hybrid versions available, power and signal contacts can be combined with optical channels

Performance Specification

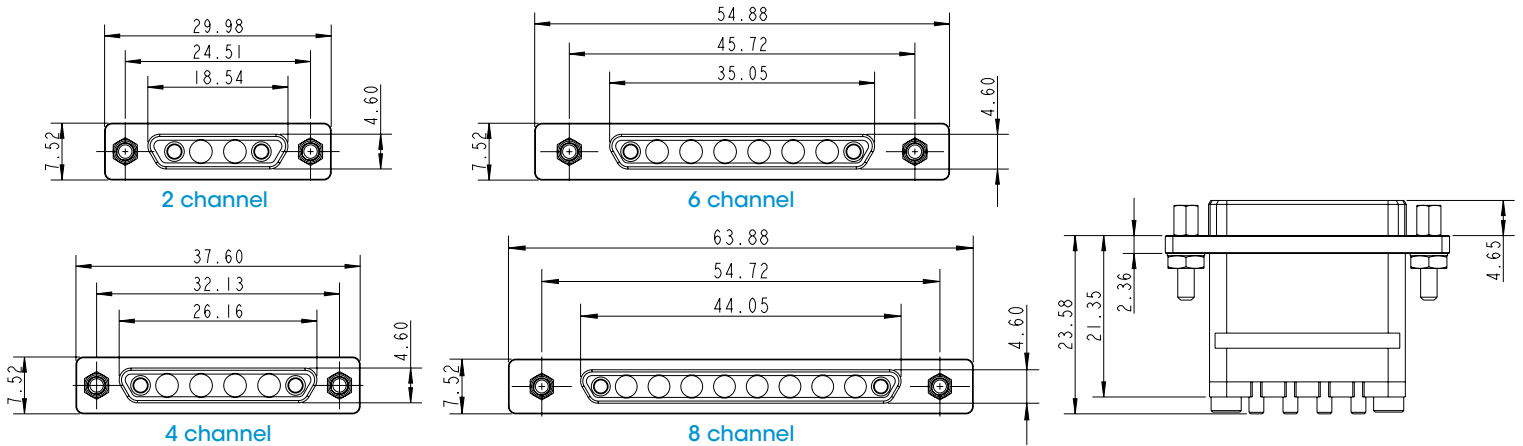
Insertion Loss	Singlemode: -1.5dB maximum (typical -1.0dB)* Multimode: -1.3dB maximum (typical -0.7dB)*
Return Loss	Singlemode: > 34dB Open Face / >31dB Mated Pair
Durability	500 Mating Cycles
Operating Temperature	-46°C to +71°C
Storage Temperature	-57°C to +85°C
Salt Spray	As per EIA-364-26, condition B
Shock	50 G's per MIL-STD-1344, Method 2004, Condition E (EIA-364-27, Condition E)
Vibration	20 G's per MIL-STD-1344, Method 2005, Condition IV (EIA-364-28, Condition IV)
Weight (approx)	Plug (wide flange) 29.5g; Receptacle (standard flange) 25.45g
Connector Shell Material	Stainless Steel & Brass Nickel plated

*Performance is dependent on assembly & termination; figures relate to CCS terminated harnesses. Cinch Connectivity Solutions reserves the right to change specifications without notice.

Insert Arrangements Socket (Standard Flange)



Insert Arrangements Plug (Standard Flange)



Bulkhead Panel Cut-Out

