

## Hermaphroditic Expanded Beam Connectors Small (HEBS)



### Features:

- ◆ Small Form Factor Expanded Beam connector
- ◆ Hermaphroditic
- ◆ Singlemode (low / high return loss) and Multimode
- ◆ 1-4 Channels
- ◆ Plug and Bulkhead (JN & XLR)
- ◆ Field Repairable
- ◆ RFID Marked
- ◆ Anodized Aluminum / Stainless Steel

### Applications:

- ◆ Military, Oil & Gas. Broadcast & Industrial

### Description:

The HEBS style Expanded Beam connector is designed for harsh environmental application, where space constraints are an issue and standard EB connectivity is too large. With just 21mm diameter the HEBS connector is one of the smallest 4CH EB connectors in the market. For easy panel mount on a 1U rack a XLR compatible FMBH has been designed.

The broadcast, security & surveillance and industrial markets are user of this connector style in a variety of application.

The HEBS range features 1-4 optical channels, Singlemode or Multimode. The Expanded Beam technology allows the usage of optical communication in the harshest environments and the connector range provides the user with the security that the communication link will work: first time, every time.

The hermaphroditic design is particularly useful and provides unique benefits in rapid deployment or cable extensions, as no adaptors are needed. Any two connectors can just be interconnected.

**Performance Specifications:**

Item	Parameter
Insertion Loss	50/125 @ 850-1300nm <2.0 dB
	9/125 @ 1310-1550nm <1.5 dB
Return Loss	9/125 @ 1310-1550nm Actual value depending on construction Special High Return Loss Versions >30dB
Vibration Sinusoidal	10-500Hz, 0.75 amplitude @ 10g acceleration
Free Fall Resistance	500 falls onto concrete from 1.2M height
Bump Resistance	4000 bumps @ 40g acceleration
Tensile Strength	Tensile of 1500N, cable dependent
Cable Variations	Compatible with tactical cable: - Plug: - typical 6mm or 7mm OD Bulkheads: - With strain relief - Same as Plug Without Strain Relief - <3mm per channel
Water Immersion	Up to 2m depth
Operating Temperature	-40 ~ +70°C
Storage Temperature	-55 ~ +85°C