

- Large size Shell size 15
- 2,4,6 Optical Channels
- Optical 2Ch / AWG16 2Ch / AWG20 2Ch
- Intermateability: Tyco Pro Beam Jr., Stratos HMA, Fibreco Senior
 - Medium size Shell size 13
 - 2, 4 Optical Channels
 - Optical 2Ch / AWG16 2Ch
- Intermateability: Fibreco Junior MIL-DTL-83526, Tyco Pro Beam Jr., QPC Qmini, Stratos HMA,
 - Mini size Shell size 11
- 2, 4 Optical Channels
- Intermateability: Tyco Pro Beam mini, QPC Qmicro, Stratos HMC, Fibreco Mini2



Fiber Optic Connector Series

Fiber Optic Connector, Circular, Hermaphroditic, Hybrid, MIL-83526,Expanded beam, 2-6 Optical channels, 2-4 Electric channels, Plug, In-Line Mount, Receptacle, Jam nut, Square flange mount, Bulkhead, Defense, Avionics, Mining, Offshore, Broadcast, Rugged field deployable applications









HXB15 CONNECTOR

- · Advanced expanded beam technology
- Rugged field deployable fiber optic connector
- Hermaphroditic interconnection
- 2 to 6 Optical Channels for Single or Multi-mode
- · Optical / Electric hybrid configurable
- · Custom configuration available
- Environmental sealing (IP68)
- Very high resistance to vibration, shock, environmental effects, dust, and debris

Description

The HXB15 Connectors, featuring expanded beam technology, hermaphroditic connection, 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 plant.

The HXB-15 Connectors 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 presence of damage or contamination at the fiber end. Hermaphroditic connector design enables fast deployment by daisy-chaining multiple cable segments. HXB15 connectors also enable transfer of electrical signal or power using hybrid insert configuration.

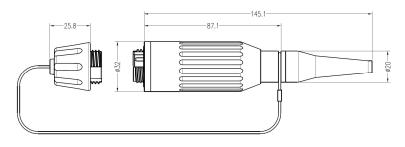
■ Specification

Optical Performance		
Insertion Loss	Typical 0.8 - 1.8 dB @ 1310, 1550 nm Typical 0.5 - 1.0 dB @ 850, 1300 nm	Single mode Multi mode
Return Loss	> 32 dB	Single mode 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	

HXB15 CONNECTOR

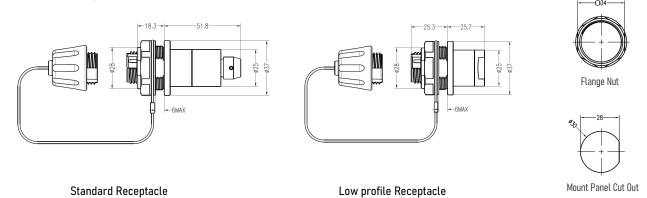
Dimensions

HXB15 Plug



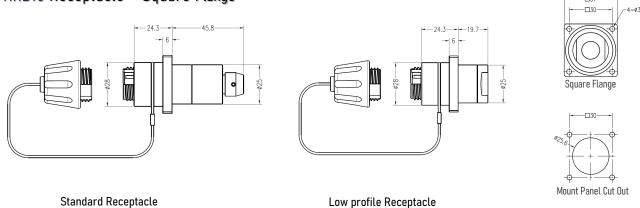
Standard Plug

· HXB15 Receptacle - Jam Nut



D-Hole Mount Data

• HXB15 Receptacle - Square Flange



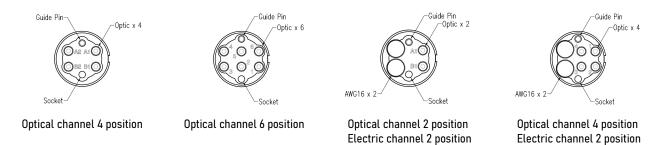
Square Flange Mount Data

HXB15 CONNECTOR

■ Modelings



Insert Arrangement





HXB15 CONNECTOR

ORDER INFORMATION

Order Example)

Plug HXB15 P - SD - B - 04 - M1 - D55 _(C02)
Receptacle HXB15 R -
$$\frac{JS}{1}$$
 - $\frac{B}{2}$ - $\frac{O4}{3}$ - $\frac{M1}{4}$ - $\frac{S20}{5}$ _(C02)

Connector style 1	SD JS JL QS QL CX	Plug with Dust cap Receptacle, Jam nut, Standard, Dust cap Receptacle, Jam nut, Low profile, Dust cap Receptacle, Square Flange, Standard, Dust cap Receptacle, Square Flange, Low profile, Dust cap Customized connector type
Material & Finish 2	B 0 P X	Aluminum alloy, Black hard anodize Aluminum alloy, Olive drab Stainless steel, Passivate Others
Arrangement 3	02 04 06 H2 H4 0X	Optical 2 channel Optical 4 channel Optical 6 channel Optical 2 channel, AWG 16 2 channel Optical 4 channel, AWG 16 2 channel Others
Fiber 4	S1 M1 M2	9 μm Single mode fiber 62.5 μm core Multi mode fiber 50 μm core Multi mode fiber
Cable Option 5	S09 S20 D55 DXX	0.9 mm Buffer fiber – JL, QL 2.0 mm Jacket fiber – JS, QS 5.5 mm Diameter Outdoor cable –SD, JS, QS Others

Note. Other configurations, materials and finishes available upon request

EXAMPLE:

→ HXB15P-SD-B-04-M1-D55_(C02)

Plug with Dust Cap, Aluminum alloy, Black hard anodize Optical 4 channel, 62.5 um fiber 850, 1300 nm Wavelength Cable Out Diameter 5.5 mm



Fiber Optic Connector Series

Fiber Optic Connector, Circular, Hermaphroditic, Hybrid, MIL-83526, Expanded beam, 2-4 Optical channels, Plug, In-Line Mount, Receptacle, Jam nut, Square flange mount, Bulkhead, Defense, Avionics, Mining, Offshore, Broadcast, Rugged field deployable applications









HXB13 CONNECTOR

- · Advanced expanded beam technology
- · Rugged field deployable fiber optic connector
- Hermaphroditic interconnection
- 2 to 4 Optical Channels for Single or Multi-mode
- · Custom configuration available
- Environmental sealing (IP68)
- Very high resistance to vibration, shock, environmental effects, dust, and debris

Description

The HXB13 Connectors, featuring expanded beam technology, hermaphroditic connection, rugged construction for field deployment have been designed for harsh environment applications such as military tactical communications, avionics, offshore systems, outside broadcast, mining and plant.

The HXB-13 Connectors 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 presence of damage or contamination at the fiber end. Hermaphroditic connector design enables fast deployment by daisy-chaining multiple cable segments.

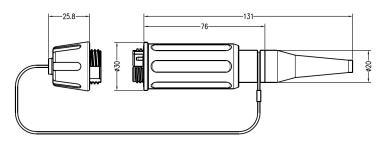
Specification

Optical Performance		
Insertion Loss	Typical 0.8 - 1.8 dB @ 1310, 1550 nm Typical 0.5 - 1.0 dB @ 850, 1300 nm	Single mode Multi mode
Return Loss	> 32 dB	Single mode 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	

HXB13 CONNECTOR

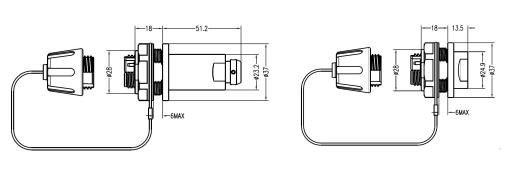
Dimensions

HXB13 Plug



Standard Plug

HXB13 Receptacle - Jam Nut



Standard Receptacle

Low profile Receptacle

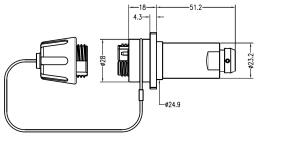


Flange Nut

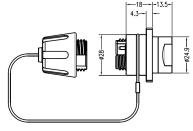
D-Hole Mount Data

Mount Panel Cut Out

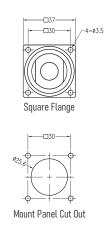
• HXB13 Receptacle - Square Flange



Standard Receptacle



Low profile Receptacle



Square Flange Mount Data

HXB13 CONNECTOR

■ Modelings



■ INSERT ARRANGEMENT



Optical channel 2 position

Optical channel 4 position

■ HXB Connector Series



HXB13 CONNECTOR

ORDER INFORMATION

Order Example)

Plug HXB13 P - SD - B - 04 - M1 - D55 _(C02)
Receptacle HXB13 R -
$$\frac{JS}{1}$$
 - $\frac{B}{2}$ - $\frac{O4}{3}$ - $\frac{M1}{4}$ - $\frac{S20}{5}$ _(C02)

Connector style 1	SD JS JL QS QL CX	Plug with Dust cap Receptacle, Jam nut, Standard, Dust cap Receptacle, Jam nut, Low profile, Dust cap Receptacle, Square Flange, Standard, Dust cap Receptacle, Square Flange, Low profile, Dust cap Customized connector type
Material & Finish 2	B O P X	Aluminum alloy, Black hard anodize Aluminum alloy, Olive drab Stainless steel, Passivate Others
Arrangement 3	02 04 0X	Optical 2 channel Optical 4 channel Others
Fiber 4	S1 M1 M2	9 μm Single mode fiber 62.5 μm core Multi mode fiber 50 μm core Multi mode fiber
Cable Option 5	S09 S20 D55 DXX	0.9 mm Buffer fiber - JL, QL 2.0 mm Jacket fiber - JS, QS 5.5 mm Diameter Outdoor cable -SD, JS, QS Others

Note. Other configurations, materials and finishes available upon request

EXAMPLE:

→ HXB13P-SD-B-04-M1-D55_(C02)

Plug with Dust Cap, Aluminum alloy, Black hard anodize Optical 4 channel, 62.5 um fiber 850, 1300 nm Wavelength Cable Out Diameter 5.5 mm



Fiber Optic Connector Series

Fiber Optic Connector, Circular, Hermaphroditic, Hybrid, MIL-83526,Expanded beam, 2-4 Optical channels, Plug, In-Line Mount, Receptacle, Jam nut, Square flange mount, Bulkhead, Defense, Avionics, Mining, Offshore, Broadcast, Rugged field deployable applications









HXB11 CONNECTOR

- · Advanced expanded beam technology
- Rugged field deployable fiber optic connector
- Hermaphroditic interconnection
- 2 to 4 Optical Channels for Single or Multi-mode
- · Custom configuration available
- Environmental sealing (IP68)
- Very high resistance to vibration, shock, environmental effects, dust, and debris

Description

The HXB11 Connectors, featuring expanded beam technology, hermaphroditic connection, rugged construction for field deployment have been designed for harsh environment applications such as military tactical communications, avionics, offshore systems, outside broadcast, mining and plant.

The HXB-11 Connector 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 presence of damage or contamination at the fiber end. Hermaphroditic connector design enables fast deployment by daisy-chaining multiple cable segments.

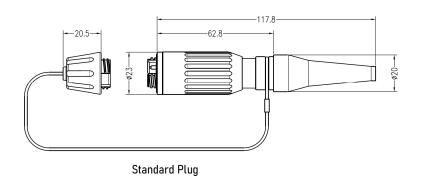
Specification

Optical Performance		
Insertion Loss	Typical 0.8 - 1.8 dB @ 1310, 1550 nm Typical 0.5 - 1.0 dB @ 850, 1300 nm	Single mode Multi mode
Return Loss	> 32 dB	Single mode 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	

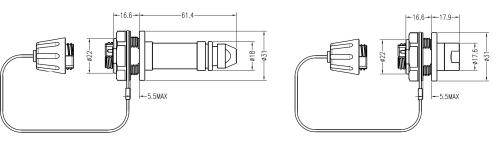
HXB11 CONNECTOR

■ Dimensions

HXB11 Plug

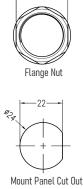


· HXB11 Receptacle - Jam Nut



Standard Receptacle





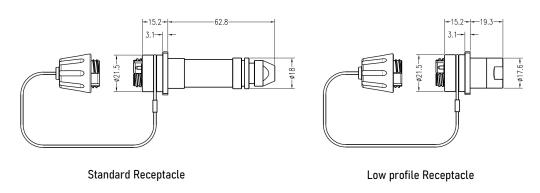
-028-

D-Hole Mount Data

-□25.3--□19.3-

Square Flange |+□19.3+|

• HXB11 Receptacle - Square Flange



Square Flange Mount Data

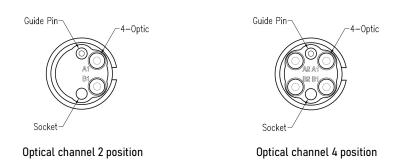
Mount Panel Cut Out

HXB11 CONNECTOR

■ Modelings



Insert Arrangement



■ HXB Connector Series



HXB11 CONNECTOR

ORDER INFORMATION

Order Example)

Plug HXB11P - SD - B - 04 - M1 - D55 _(C02)
Receptacle HXB11R -
$$\frac{JS}{\frac{1}{2}}$$
 - $\frac{B}{\frac{2}{3}}$ - $\frac{M1}{\frac{4}{3}}$ - $\frac{S20}{\frac{5}{3}}$ _(C02)

Connector style 1	SD JS JL QS QL CX	Plug with Dust cap Receptacle, Jam nut, Standard, Dust cap Receptacle, Jam nut, Low profile, Dust cap Receptacle, Square Flange, Standard, Dust cap Receptacle, Square Flange, Low profile, Dust cap Customized connector type
Material & Finish 2	В О Х	Aluminum alloy, Black hard anodize Aluminum alloy, Olive drab Others
Arrangement 3	02 04 0X	Optical 2 channel Optical 4 channel Others
Fiber 4	S1 M1 M2	9 μm Single mode fiber 62.5 μm core Multi mode fiber 50 μm core Multi mode fiber
Cable Option 5	S09 S20 D55 DXX	0.9 mm Buffer fiber - JL, QL 2.0 mm Jacket fiber - JS, QS 5.5 mm Diameter Outdoor cable -SD, JS, QS Others

Note. Other configurations, materials and finishes available upon request

EXAMPLE:

→ HXB11P-SD-B-04-M1-D55_(C02)

Plug with Dust Cap, Aluminum alloy, Black hard anodize Optical 4 channel, 62.5 um fiber 850, 1300 nm Wavelength Cable Out Diameter 5.5 mm

