

Hybrid Connector A for Optical- and Power Connection

Ruggedized, fully sealed hermaphroditic construction with four single mode fiber optic channels combined with 2x 2 MIL-C-39029 power contacts

Applications:

- Tactical deployment of hybrid cables, power and data communication in one cable with harsh military hybrid connectors
- A hybrid connector terminates both, optical fibers and electrical power at the same time
- For supplying remote communication equipment with both power and fiber optic connection using BRUpowermil cable
- Long distance power transmission with special, high voltage remote power supply

Description:

- 4 fiber optic channels, single mode or multi mode
- up to 4 MIL-C power contacts
- Ruggedized, fully sealed hermaphroditic construction
- Field termination capability for plug and bulkhead connectors
- Compatible with hybrid cables with an outer diameter of up to 7.5 mm

Optical Performance:

- Insertion loss: 9/125 fiber at 1310 or 1550 nm, typical < 2 dB
- Return loss: typical 25 dB

Electrical Performance:

- Contact resistance: <4 mΩ
- Operating voltage: 1000 VAC/1500 VDC
- Operating current: 5 A (short term 15 A)
- Test voltage: 3500 V/50 Hz 1 min EN 61984

Environmental Performance:

- Operation: -40°...+85° C
MIL-STD-810F-501.4-II
MIL-STD-810F-502.4-II
- Storage: -60°...+85° C
MIL-STD-810F-501.4-I
MIL-STD-810F-502.4-I
- Water immersion: 5 m, 48 h
MIL-STD-810F-512.4
- Humidity: 95% rel. H, 72 h
MIL-STD-810F-507.4

Mechanical Performance:

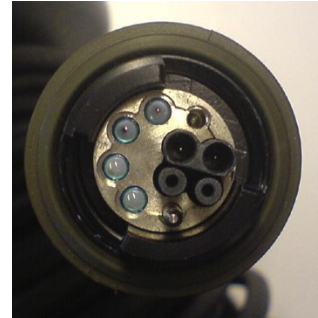
- Crush resistance: 1200 N, based upon IEC 60794-1-E3
- Cable retention: 1500 N, cable dependent
- Drop: 500 drops from 1.2 m MIL-STD-810F-516.5-IV

Connector Dimensions:

approx. Ø 31 mm, length with cap 170 mm, weight 0.145 kg



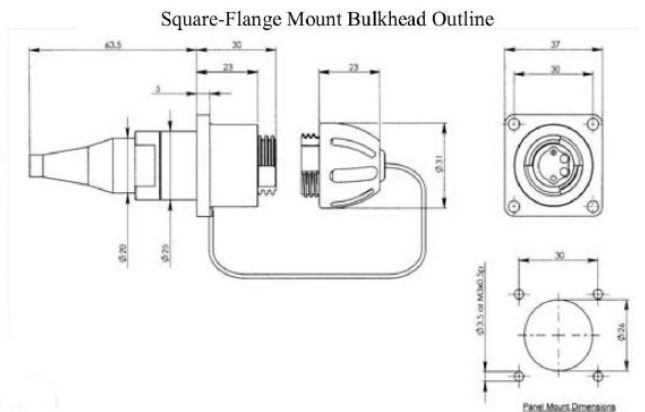
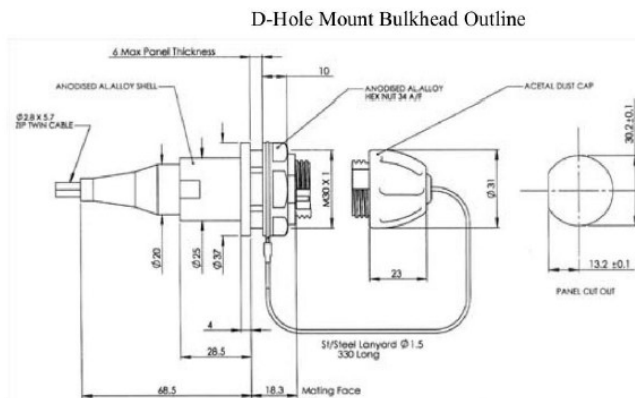
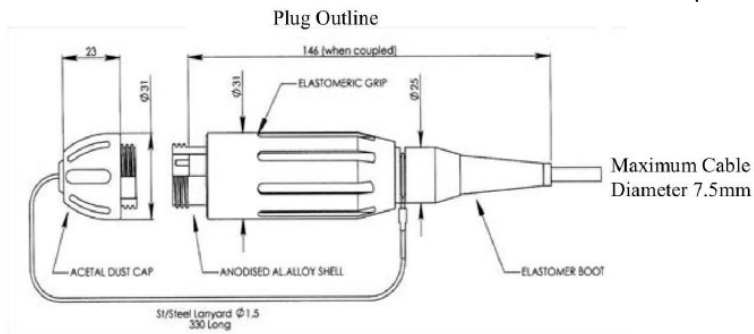
Hybrid connector plug



Details of hybrid connector plug



Hybrid connector bulkhead, jam nut receptacle. Square flange available too



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