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: 40º...+85º C
  MIL-STD-810F-501.4-II
  MIL-STD-810F-502.4-II
- Storage: -60º...+85º 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

Maximum Cable Diameter 7.5 mm

Plug Outline

D-Hole Mount Bulkhead Outline

Square-Flange Mount Bulkhead Outline