

HYDAP-MNT1/ HYDAP-FNT1 Series Datasheet

The Complex HYDAP-MNT1/FNT1 series of passive adapters bridges SMPTE 311M hybrid fiber connectors to Neutrik opticalCON DUO fiber connectors, reducing cable costs while extending transmission distances for reliable camera connectivity. Designed for demanding broadcast and live production environments, these adapters are compatible with standard dual LC and opticalCON 2-channel fiber systems. Ideal for sports broadcasting, stadium installations, broadcast trucks, and live event production. "PWR" variants include copper conductors to support power and control pass-through for camera systems that require it; non-power variants are fiber-only.

Features:

- High Quality LEMO and Neutrik opticalCON DUO Connectors
- SMPTE 311M Compatible Adapter
- Durable Aluminum Housing
- Compatible with Standard LC-based Dual Fiber Cables



HYDAP-MNT1



HYDAP-FNT1



HYDAP-MNT1-PWR



HYDAP-FNT1-PWR

HF-LCBP8 Datasheet

Specifications:

LEMO Connector:

- **Number of Contacts (Low Voltage):** 2
- **Number of Contacts (High Voltage):** 2
- **Number of Contacts (Fiber Optic):** 2
- **Locking System:** Push-Pull
- **Rated Current:** 10A
- **Fiber Optic Contact:** Type F2
- **Vtest Power/Signal (AC):** 2250V,1000V
- **Working Voltage power/Signal (AC):** 600V,42V
- **Lifetime:** 20000 Mating Cycles
- **Shielding:**
 - Min @10 MHz: 95 dB
 - Min @1 GHz: 80 dB
- **Shock Resistance:** 100g [6 ms]
- **Vibration Resistance:** 15g [10 Hz - 2000 Hz]

Neutrik opticalCON DUO Connector:

- **Contact Resistance:** < 7 mΩ
- **Dielectric Strength:** 1.5 kVdc
- **Insulation Resistance:** > 2 GΩ (initial)
- **Rated Current per Contact:** 6A
- **Rated Voltage:** < 50 V
- **Insertion Force:** < 45 N
- **Withdrawal Force:** < 45 N
- **Lifetime:** 5000 mating cycles
- **Locking Force:** 1000 N
- **Locking Device:** Push-Pull
- **Protection Class:** IP65 in mated condition in combination with SCDP-
- **Insertion Loss:** < 0.4 dB / connection
- **Optical Connector:** LC-Duplex