



NE8FBH-LED

Fully shielded, horizontal PCB mount RJ45 receptacle with B-Series cutout and latch lock, max. panel thickness 3 mm. The "Lighted etherCON" offers a closed metal housing to avoid EMI or cross talking and two light pipes for standard 3 mm LED to indicate data transmission, status, etc.

The etherCON Series is a ruggedized and lockable RJ45 connector system, optimized for pro audio, video and lightning network applications. The chassis connectors are shaped to fit into standardized panels out of the entertainment industry.

The B-Series offers a space saving design and a rugged metal front plate.

Attention! Does not intermate with CAT6 cable connector NE8MC6-MO and NKE6S* cables.

Features & Benefits

- ✓ Accommodates rugged etherCON NE8MC* or any standard RJ45 plug
- ✓ Approved latch lock system
- ✓ Offers various illuminating indication possibilities by means of two separate light pipes
- ✓ Light pipes illuminated by standard 3 mm LEDs to be mounted on PCB by customer
- ✓ Comprehensive shielding granted by completely closed metal housing

- ✓ CAT5e / Class D according to TIA/EIA 568C and ISO/IEC 11801
- ✓ Ground panel connection
- ✓ PoE type 4 class 8 (100W) acc. IEEE 802.3bt

Technical Information

| Product | |
|---------|------------|
| Title | NE8FBH-LED |
| Gender | female |

| Electrical | |
|---------------------------|---|
| Contact resistance | < 50 mΩ |
| Dielectric strength | 1 kVdc |
| Frequencyrange | 1 - 100 MHz |
| Insulation resistance | > 0.5 GΩ |
| Rated current per contact | 1,5 A |
| Rated voltage | ≤ 57 V |
| Transmission performance | CAT5e acc. to TIA/EIA 568C channel specifications CLASS D acc. to ISO/IEC 11801 channel specifications |
| Power over Ethernet | PoE type 4 class 8 (100W) acc. IEEE 802.3bt |

| Mechanical | |
|------------------------|--|
| Insertion force | $\leq 20 \text{ N}$ |
| Withdrawal force | $\leq 20 \text{ N}$ |
| Lifetime | > 1000 mating cycles |
| Panel thickness | max. 3 mm 0.12' |
| Wiresize | |
| Wiring | Horizontal PCB mount |
| Locking device | Latch lock |
| Mounting direction | Rear mounting |
| Chassis shape | B |
| Recommended LED-height | 5.6 mm (2.2") The final LED brightness depends on the actual LED height and the angel of radiation. Subject to be tested! |
| Mounting | A-Screw |

| Material | |
|-------------------------|--------------------------------------|
| Contact plating | 0.2 μm Au over Ni plating |
| Contacts | Bronze (CuSn8) |
| Insert | PBTP 15 % GR |
| Shell | Zinc diecast (ZnAl4Cu1) |
| Shell plating | Nickel |
| Locking element plating | Nickel |

| Environmental | |
|---------------------|---|
| Flammability | UL 94 V-0 |
| Solderability | Complies with IEC 68-2-20 |
| Temperature range | -30 °C to +80 °C |
| Standard compliance | ISO/IEC 11801-1 Ed. 1.0 (2017-11) IEC 60603-7-3 Ed.2.0 (2010-04) IEC 60512-99-002 Ed.2.0 (2022-01) IEC 60512-9-3 (2011-06) |

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