



NE8FBH-S

Fully shielded, horizontal PCB mount RJ45 receptacle, B-series cutout with latch lock, max. panel thickness 3 mm. The "Shielded etherCON" offers a closed metal housing to avoid EMI or cross talking.

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
- ✓ Comprehensive shielding granted by completely closed metal housing
- ✓ Improves EMC performance of appliance even in unmated condition
- ✓ Connector is fixed onto PCB due to soldered connector 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-S |
| 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 |
| 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) |