# NE8FDV-TOP

Vertical PCB panel mount RJ45 receptacle, combined with sealing kit SE8FD-TOP, max. panel thickness 4 mm, mounting screws included.

The etherCON series is a ruggedized and lockable RJ45 connector system, optimized for pro audio, video and lighting network applications with IP65 rating and UL 50E certification. The chassis connectors are shaped to fit into standardized panels out of the entertainment industry. The D-series offers the most rugged design of the etherCON series and is perfectly suitable for panel mount and the installer market.

ATTENTION: Does not intermate with CAT6 cable connector NE8MC6-MO and NKE6S* cables.

## Features & Benefits

- IP65 rating and certified outdoor protection to UL 50E (in combination with NE8MX-TOP or sealing cap closed)
- Uses high impact UV-resistant and gasket materials
- Accomodates NE8MCX* or any standard RJ45 plug
- Class D or CAT5e according to ISO/IEC 11801 and TIA/EIA
- Approved latch lock system
- Mountable from the front of the panel
- Ground panel connection

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# Technical Information

| Product | |
|---|---|
| **Title** | NE8FDV-TOP |
| **Gender** | female |

| Electrical | |
|---|---|
| **Contact resistance** | < 50 mΩ |
| **Dielectric strength** | 1 kVdc |
| **Frequency range** | 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<br>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** | ≤ 20 N |
| **Withdrawal force** | ≤ 20 N |
| **Lifetime** | > 1000 mating cycles |
| **Panel thickness** | 2 mm - 4 mm , 0.08" - 0.16" |
| **Wiring** | vertical PCB mount |
| **Locking device** | Latch lock |

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## Material

| | |
|---|---|
| **Contact plating** | 0.2 µm Au over Ni plating |
| **Contacts** | Bronze (CuSn8) |
| **Insert** | PBTP 15 % GR |
| **Shell** | Zinc diecast (ZnAl4Cu1) |
| **Shell plating** | Chromium |

## Environmental

| | |
|---|---|
| **Flammability** | UL 94 V-0 |
| **Solderability** | Complies with IEC 68-2-20 |
| **Temperature range** | -30°C to +80 °C |
| **Protection class** | IP65, UL50E enclosure type 4 (mated or sealing cap closed) |
| **Standard compliance** | ISO/IEC 11801-1 Ed. 1.0 (2017-11)<br>IEC 60603-7-3 Ed.2.0 (2010-04)<br>IEC 60512-99-002 Ed.2.0 (2022-01)<br>IEC 60512-9-3 (2011-06) |