



## NE8FDPS-TOP

The "etherCON TOP airtight" chassis connector is the perfect solution for demanding outdoor applications and the harshest conditions. This innovative product is part of the etherCON product group and belongs to our premium data line. With an impressive array of features and a particular focus on protection and performance, the "etherCON TOP airtight" is the choice for professionals who require absolute reliability.

With the etherCON TOP airtight, you can count on a secure connection, even in the most extreme outdoor conditions. Rely on its protective features and high performance to ensure data connections that meet the most stringent requirements. Trust in TRUE OUTDOOR PROTECTION with this outstanding chassis connector from NEUTRIK – your link to the future.

### Features & Benefits

- |                                                                                                                                                                  |                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• IP65 &amp; IP67 rating to protect from water and dust ingress (even in unmated and open sealing cap condition)</li></ul> | <ul style="list-style-type: none"><li>• Corrosion resistance</li></ul>                                                                |
| <ul style="list-style-type: none"><li>• UV protection</li></ul>                                                                                                  | <ul style="list-style-type: none"><li>• Airtightness for production line tests to ensure TRUE OUTDOOR PROTECTION on devices</li></ul> |
| <ul style="list-style-type: none"><li>• 100 W power delivery according to IEEE 802.3bt Type 4 Class 8</li></ul>                                                  | <ul style="list-style-type: none"><li>• Seamless design language of etherCON TOP &amp; xlrCON TOP</li></ul>                           |
| <ul style="list-style-type: none"><li>• Easy maintenance due to front-mount design</li></ul>                                                                     | <ul style="list-style-type: none"><li>• ESD protection up to 2 kV</li></ul>                                                           |

## Technical Information

| Product         |                   |
|-----------------|-------------------|
| Title           | NE8FDPS-TOP       |
| Product family  | etherCON          |
| Connection type | chassis connector |
| Gender          | female            |

| Electrical                |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Contact resistance        | < 10 mΩ                                                                                                   |
| Dielectric strength       | 1 kV DC                                                                                                   |
| 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 |
| Frequency range           | 1-100 MHz                                                                                                 |
| Power over Ethernet       | PoE type 4 class 8 acc. IEEE 802.3bt                                                                      |

**Mechanical**

|                           |                                              |
|---------------------------|----------------------------------------------|
| <b>Insertion force</b>    | < 30 N                                       |
| <b>Withdrawal force</b>   | < 30 N                                       |
| <b>Lifetime</b>           | min. 1000 mating cycles                      |
| <b>Locking device</b>     | Latch lock                                   |
| <b>Wiring</b>             | RJ45 Feedthrough<br>(Wiring scheme enclosed) |
| <b>Chassis shape</b>      | D                                            |
| <b>Mounting direction</b> | Front mounting                               |

**Material**

|                        |                                               |
|------------------------|-----------------------------------------------|
| <b>Contact plating</b> | Gold plating                                  |
| <b>Contacts</b>        | Brass                                         |
| <b>Flange</b>          | PA66 (hard component) + EPTR (soft component) |
| <b>Housing</b>         | PA66                                          |

| Environmental            |                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability             | V-0 acc. to UL94                                                                                                                                                                                                                                                                                                                                                               |
| Standard compliance      | UL 1863<br>CSA C22.2 No. 182.4-M90<br>for fire enclosure acc. to IEC 62368-1:2018,<br>EN IEC 62368-1:2020 +A11:2020, UL 62368-1<br>Ed.3, CSA C22.2 No. 62368-1:19<br>for outdoor enclosure acc. to IEC 62368-<br>1:2018 Annex Y, EN IEC 62368-1:2020<br>+A11:2020 Annex Y<br>Regulation (EU) 2023/988<br>Regulation (UK) 2016 No. 1101<br>IEC 60529:1989 +AMD1:1999 +AMD2:2013 |
| Ingress protection class | IP65<br>IP67                                                                                                                                                                                                                                                                                                                                                                   |
| Temperature range        | -30 °C to +70 °C                                                                                                                                                                                                                                                                                                                                                               |