



## NE8FDY-C6

The etherCON CAT6 D-shape panel connectors with metal housing and secure latching system offer a tool-free and gas-tight IDC termination, which makes cable assembly easy and fast.

Attention! Intermates ONLY with NE8MC6-MO, NKE6S-\* and generic RJ45 connectors.

Not compatible with the etherCON cable connector carriers NE8MC\* and the CAT6<sub>A</sub> cable connectors NE8MX6\*.

### Features & Benefits

- CAT6 compliant - data rate up to 10 GBit/s
- CAT6 specifications according TIA / EIA 568B, ISO / IEC 11801, EN 50173
- Shielded system - high noise immunity and EMI protection
- Ground lead jumper on panel connector with selectable grounding option
- CAT6 performance - fast data transmission and high bandwidth applications
- IP65 - Dust and waterproof in mated condition
- Push Pull mating - secure and proven locking system
- Gas-tight IDC termination without tool

## Technical Information

| Product |           |
|---------|-----------|
| Title   | NE8FDY-C6 |
| Gender  | female    |

| Electrical                |                        |
|---------------------------|------------------------|
| Contact resistance        | < 10 mΩ                |
| Dielectric strength       | 1 kVdc                 |
| Frequencyrange            | 1 - 250 MHz            |
| Insulation resistance     | > 0.5 GΩ               |
| Rated current per contact | 1,5 A                  |
| Rated voltage             | < 50 V                 |
| Transmission performance  | CAT 6                  |
| Standard compliance       | TIA/EIA 586B, IEC11801 |

| Mechanical       |   |
|------------------|---|
| Insertion force  | ≤ 40 N  |
| Withdrawal force | ≤ 20 N  |
| Lifetime         | > 1000 mating cycles  |
| Panel thickness  | max. 3 mm , 0.12"   |
| Wiresize         | solid: 0.205 - 0.324 mm <sup>2</sup> (AWG 24 - AWG 22)        |
| Wiresize         | stranded: 0.141 - 0.355 mm <sup>2</sup> (AWG 26/7 - AWG 22/7) |
| Locking device   | Push-Pull   |
| Chassis shape    | D   |

| Material               |                                  |
|------------------------|----------------------------------|
| <b>Contact plating</b> | 0.7 µm Au over 1.2 µm Ni plating |
| <b>Contacts</b>        | Bronze (CuSn8)                   |
| <b>Insert</b>          | Polycarbonate                    |
| <b>Shell</b>           | Zinc diecast (ZnAl4Cu1)          |
| <b>Shell plating</b>   | Nickel                           |
| <b>Strain relief</b>   | Stainless steel                  |

| Environmental            |                  |
|--------------------------|------------------|
| <b>Flammability</b>      | UL 94 HB         |
| <b>Protection class</b>  | IP 65            |
| <b>Temperature range</b> | -10 °C to +60 °C |