



## NE8FDY-C6-B

The etherCON CAT6 D-shape panel connectors with black 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\*, NE8MX\* and the CAT6<sub>A</sub> cable connectors NE8MX6\*.

### Features & Benefits

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

## Technical Information

| Product       |             |
|---------------|-------------|
| <b>Title</b>  | NE8FDY-C6-B |
| <b>Gender</b> | female      |

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

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

| Material        |                                  |
|-----------------|----------------------------------|
| Contact plating | 0.7 µm Au over 1.2 µm Ni plating |
| Contacts        | Bronze (CuSn8)                   |
| Insert          | Polycarbonate                    |
| Shell           | Zinc diecast (ZnAl4Cu1)          |
| Shell plating   | Black chromium                   |
| Strain relief   | Stainless steel                  |

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