



## 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\*, 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
- ✓ CAT6e / Class EA according to TIA/EIA 568C and ISO/IEC 11801
- ✓ PoE type 4 class 8 (100W) acc. IEEE 802.3bt

## Technical Information

Product	
Title	NE8FDY-C6
Gender	female

Electrical	
Contact resistance	< 50 mΩ
Dielectric strength	1 kVdc
Frequencyrange	1 - 250 MHz
Insulation resistance	> 0.5 GΩ
Rated current per contact	1,5 A
Rated voltage	≤ 57 V
Transmission performance	CAT6A acc. to TIA/EIA 568C channel specifications CLASS EA acc. to ISO/IEC 11801 channel specifications
Power over Ethernet	PoE type 4 class 8 (100W) acc. IEEE 802.3bt

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

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