

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 $CAT6_A$ cable connectors NE8MX6*.

Features & Benefits

- CAT6 compliant - data rate up to 10 GBit/s
- CAT6 performance - fast data transmission and high bandwidth applications
- 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
- CAT6 / Class EA according to TIA/EIA 568C and ISO/IEC 11801
- PoE type 4 class 8 (100W) acc. IEEE 802.3bt

Technical Information

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Product	
Title	NE8FDY-C6-B
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

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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 mm² (AWG 24 – AWG 22)
Wiresize	stranded: 0.141 – 0.355 mm² (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	Black KTL
Strain relief	Stainless steel

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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)

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