



# NC10FD-LX-B

8 + 2 pole female D-size receptacle, KTL coated metal housing, duplex ground contact

## Features & Benefits

- ✓ Suitable for data offering CAT 5e performance and power up to 16 A and 50 V - exceeds PoE+ capabilities
- ✓ Superior ruggedness compared to RJ45 type connectors
- ✓ All metal housing offers best overall RF protection and electromagnetic shielding
- ✓ D-size housing provides installation compatibility with industry standard D mounting dimensions
- ✓ Receptacle with duplex ground contact for excellent signal integrity

## Technical Information

Product	
Title	NC10FD-LX-B
Type	Chassis
Connection Type	XLR
Gender	female

**Electrical**

Contact resistance	$\leq 3 \text{ m}\Omega$
Dielectric strength	1 kVdc
Insulation resistance	$> 10 \text{ G}\Omega$ (initial); $0.1 \text{ G}\Omega$ (after damp heat test)
Number of electronical contacts	8 + 2
Rated current per contact	16 A (power pins), 3 A (data pins)
Rated voltage	$< 50 \text{ V}$
Cable shield - shell connection	choosable
Transmission performance	CAT 5e

**Mechanical**

Insertion force	$\leq 20 \text{ N}$
Withdrawal force	$\leq 20 \text{ N}$
Lifetime	$> 1000$ mating cycles
Wiresize	$2.5 \text{ mm}^2$ / AWG 14 (power pins), $1 \text{ mm}^2$ / AWG 18 (data pins)

Material	
Contact plating	0.2 µm Au hard alloy over 2 µm Ni
Contacts	Brass (CuZn39Pb3)
Insert	PA66
Locking element	Steel Ck67
Locking element plating	Nickel
Shell	Zinc diecast (ZnAl4Cu1)
Shell coating	Black KTL

Environmental	
Flammability	UL 94 V-0
Protection class	IP 40
Solderability	Complies with IEC 68-2-20
Temperature range	-30 °C to +80 °C
Manufacturing Standard	IEC 61076-2-103