



NC10FD-LX-B

8 + 2 pole female D-size receptacle, black chrome 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
- All metal housing offers best overall RF protection and electromagnetic shielding
- Receptacle with duplex ground contact for excellent signal integrity
- Superior ruggedness compared to RJ45 type connectors
- D-size housing provides installation compatibility with industry standard D mounting dimensions

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 G Ω (initial); 0.1 G Ω (after damp heat test)
Number of electrical contacts	8 + 2
Rated current per contact	16 A (power pins), 3 A (data pins)
Rated voltage	< 50 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 mm ² / AWG 14 (power pins), 1 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
Shell	Zinc diecast (ZnAl4Cu1)
Shell plating	Black chromium

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