



## 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           | $> 10 \text{ G}\Omega$ (initial); $0.1 \text{ G}\Omega$ (after damp heat test) |
| Number of electrical contacts   | 8 + 2  |
| Rated current per contact       | 16 A (power pins), 3 A (data pins)   |
| Rated voltage                   | $< 50 \text{ V}$   |
| 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 mm <sup>2</sup><br>/ AWG 14 (power pins), 1 mm <sup>2</sup> / 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           |