



# 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         | $2.5 \text{ mm}^2$<br>/ 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           |