



# NC3FX1-TOP

3 pole female cable connector, TRUE OUTDOOR PROTECTION (TOP)

The X-TOP series is a "heavy-duty" XLR cable connector for outdoor use. Outdoor protected by mating with related cable/chassis connector of the XLR TOP range (IP65).  
Gold contacts are standard.

## Features & Benefits

- ✓ Heavy-duty sealed XLR connector range for harsh and demanding environment
- ✓ Outdoor protection according to IP65
- ✓ Uses high impact UV resistant materials
- ✓ TOP-Approved in consideration of UL50E

## Technical Information

| Product         |            |
|-----------------|------------|
| Title           | NC3FX1-TOP |
| Connection Type | XLR        |
| Gender          | female     |

| Electrical                   |                                  |
|------------------------------|----------------------------------|
| Capacitance between contacts | $\leq 4 \text{ pF}$              |
| Contact resistance           | $\leq 3 \text{ m}\Omega$         |
| Dielectric strength          | 1,5 kVdc                         |
| Insulation resistance        | $> 10 \text{ G}\Omega$ (initial) |
| Rated current per contact    | 16 A                             |
| Rated voltage                | $< 50 \text{ V}$                 |

| Mechanical                  |                          |
|-----------------------------|--------------------------|
| Cable O.D.                  | 5.0 - 8.0 mm             |
| Insertion force             | $\leq 20 \text{ N}$      |
| Withdrawal force            | $\leq 20 \text{ N}$      |
| Lifetime                    | $> 5000$ mating cycles   |
| Wiresize (mm <sup>2</sup> ) | max. 1.5 mm <sup>2</sup> |
| Wiresize (AWG)              | max. 16 AWG              |
| Wiring                      | Solder contacts          |
| Locking device              | Latch lock               |

| Material        |                                 |
|-----------------|---------------------------------|
| Bushing         | UV-resistant rubber             |
| Contact plating | Gold (Au) over Nickel (Ni)      |
| Contacts        | Bronze (CuSn8)                  |
| Insert          | Polyamide (PA66)                |
| Locking element | St3K32 (latch) / Ck 67 (spring) |
| Shell           | Zinc diecast (ZnAl4Cu1)         |
| Shell plating   | Nickel                          |
| Strain relief   | Polyacetal                      |
| Sealing jacket  | UV-resistant rubber             |

| Environmental                       |                  |
|-------------------------------------|------------------|
| Flammability acc. to UL94           | V0 (insert)      |
| Standard compliance                 | IEC 61076-2-103  |
| Protection class acc. to OEC 60529  | IP 65 (mated)    |
| Solderability standard              | IEC 60068-2-20   |
| Temperature range                   | -30 °C to +80 °C |
| Polltion degree acc. to IEC 60664-1 | II               |