



# NC5FBV1

This series not only stands out with its proven features such as a compact design, flame retardancy in accordance with UL94-V0, and excellent electrical performance but also incorporates an innovative, enhanced contact system. This new design offers additional advantages, particularly in terms of vibration resistance. Thanks to these improvements, the new products are perfectly suited to meet the demands of challenging applications, providing you with reliable solutions for your needs.

## Features & Benefits

- ✓ Smallest XLR receptacles
- ✓ highest packing density
- ✓ New enhanced contact system
- ✓ Metal mounting flange featuring continuous circumferential ground contact to chassis for best EMC and RF protection
- ✓ Flame retardant (V0, halogen free)

## Technical Information

| Product         |                   |
|-----------------|-------------------|
| Title           | NC5FBV1           |
| Product Family  | xlrCON            |
| Connection type | chassis connector |
| Gender          | female            |

**Electrical**

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Capacity between contacts    | $\leq 7 \text{ pF}$                                                                                 |
| Contact resistance           | $\leq 12 \text{ m}\Omega$                                                                           |
| Dielectric strength          | 1,5 kVdc                                                                                            |
| Insulation resistance        | $> 10 \text{ G}\Omega$ (initial)                                                                    |
| Rated current per contact    | 3 A                                                                                                 |
| Rated voltage acc. to UL1977 | 50 VAC                                                                                              |
| Grounding Options            | Separate ground contact connected to mating connector shell and front panel, no connection to Pin 1 |

**Mechanical**

|                    |                         |
|--------------------|-------------------------|
| Insertion force    | $\leq 20 \text{ N}$     |
| Withdrawal force   | $\leq 20 \text{ N}$     |
| Lifetime           | min. 1000 mating cycles |
| Locking device     | Latch lock              |
| Wiring             | Vertical PCB mount      |
| Chassis shape      | B                       |
| Mounting direction | rear mounting           |
| Mounting           | A-Screw                 |

| Material                |                         |
|-------------------------|-------------------------|
| Contact                 | Bronze (CuSn6)          |
| Contact plating         | partial gold / Ni / Tin |
| Insert                  | PA66                    |
| Locking element         | Steel Ck67              |
| Locking element plating | Nickel                  |
| Ring                    | Zinc diecast (ZnAl4Cu1) |
| Ring plating            | Black KTL               |

| Environmental       |                              |
|---------------------|------------------------------|
| Flammability        | UL 94 V0                     |
| Standard compliance | IEC 61076-2-103              |
| Solderability       | Complies with IEC 60068-2-20 |
| Temperature range   | -30 °C to +80 °C             |