

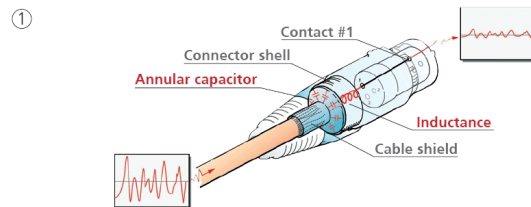


NC3FDX-EMC-Spec

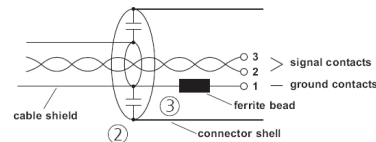
3 pole female EMC-XLR cable connector for panel mount

The EMC-XLR Series is a specifically designed version of the XX series to give enhanced RF screening for critical applications in live performance and recording where there are particular problems with radio transmission or mobile phones. The design guarantees a continuous RF shield connection from the cable to the chassis connector housing via a circular capacitor around the cable shield. The circular capacitors act as high-pass filter with a cut-off frequency around 10 MHz.

An EMI suppression ferrite bead with 24 Ohm at 1 MHz between pin 1 and the cable screen provides a low-pass filter for improved RF rejection.



- ① Design guarantees a continuous RF-shield connection but avoids ground loops (no LF-shield connection)
- ② Circular capacitor enables low-inductive shield connection to connector housing
- ③ Cable shield - PIN 1 connection includes EMI suppression bead (blocks high frequencies)



For panel mount application of the EMC XLR we are offering a special cable version with D flange to mount it into a panel. This panel mountable connector is available as female cable connector only and features the same specifications as the NC3FX-EMC. It includes the locking nut of the NC3FX-Spec for secure fastening of a gooseneck for instance. For larger panel openings an additional round flange with a diameter of 63.5 mm including mounting screws is available.

Features & Benefits

- 3 pole female XLR panel mount connector with integrated capacitive shield to shell connection
- Circumferential ground spring providing an accurate connection to the mating shell
- Avoid ground loops as there is no LF-shield connection to ground
- Chuck type strain relief system for secure clamping of cables
- Circular capacitor around the cable shield enables low-inductive shield connection to connector housing
- Cable shield - Pin 1 connection includes EMI suppression bead to block high frequencies
- Rugged zinc diecast shell, long lasting and durable
- Boot with rubber gland gives high protection against bending stresses

Technical Information

| Product | |
|------------------------|-----------------|
| Title | NC3FDX-EMC-SPEC |
| Connection Type | XLR |
| Gender | female |

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

| Mechanical | |
|-------------------------|------------------------|
| Insertion force | $\leq 20 \text{ N}$ |
| Withdrawal force | $\leq 20 \text{ N}$ |
| Lifetime | > 1000 mating cycles |
| Wiresize | |
| Wiring | Solder contacts |
| Locking device | Latch lock |
| Chassis shape | D |

| Material | |
|------------------------|---|
| Contact plating | 0.2 μm Au hard alloy over 2 μm Ni |
| Contacts | Bronze (CuSn8) |
| Insert | PA66 |
| Locking element | Steel Ck67 |
| Shell | Zinc diecast (ZnAl4Cu1) |
| Shell plating | Black chromium |

| Environmental | |
|----------------------------|---------------------------|
| Flammability | UL 94 V-0 |
| Standard compliance | IEC 61076-2-103 |
| Protection class | IP 40 |
| Solderability | Complies with IEC 68-2-20 |
| Temperature range | -30 °C to +80 °C |

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