

## NC3FXX-EMC

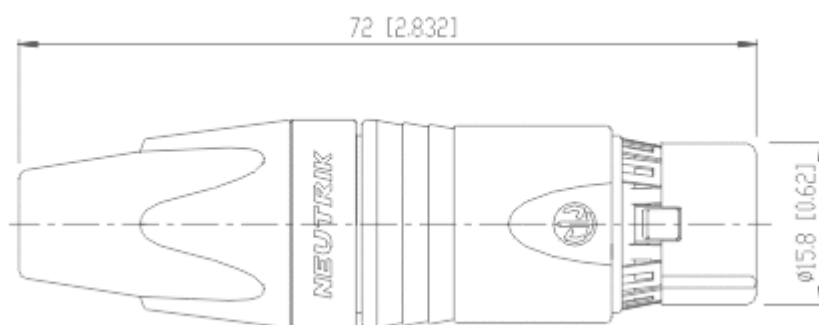


3 pole female EMC-XLR cable connector

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

### Features & Benefits

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



**Product**

Connector Type	XLR
Gender	female

**Electrical**

Capacitance between contacts	$\leq 4$ pF
Contact resistance	$\leq 3$ m $\Omega$
Dielectric strength	1,5 kVdc
Insulation resistance	$> 2$ G $\Omega$ (initial)
Insulation resistance	$> 1$ G $\Omega$ (after damp heat test)
Rated current per contact	5 A
Rated voltage	50 V

**Mechanical**

Cable O.D.	3.5 - 8.0 mm
Insertion force	$< 50$ N
Withdrawal force	$< 20$ N
Lifetime	$> 1000$ mating cycles
Wire size	max. 0.75 mm <sup>2</sup>
Wire size	max. 20 AWG
Wiring	Solder contacts
Locking device	Latch lock

**Material**

Boot	Polyuretan
Bushing	Polyamide (PA 6 15% GR)
Contact plating	0.2 $\mu$ m Au hard alloy over 2 $\mu$ m Ni
Contacts	Bronze (CuSn8)
Insert	Polyamide (PA 6.6 30 % GR)
Locking element	Zinc diecast (ZnAl4Cu1)
Shell	Zinc diecast (ZnAl4Cu1)
Shell plating	Nickel
Strain relief	Polyacetal (POM)
Circumferential ground spring	Bronze (CuSn6), Ni plated

**Environmental**

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