



NC3FXX-EMC-B

3 pole female EMC-XLR cable connector, black

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 highpass filter with a cut-off frequency around 10 MHz.

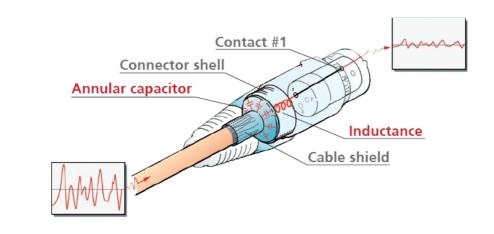
An EMI suppression ferrite bead with 24 Ohm at 1 MHz between pin 1 and the cable screen provides a low-pass filter for improved RF rejection.

Features & Benefits

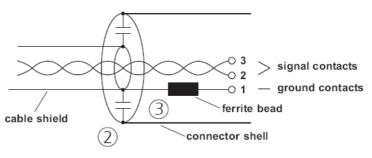
3 pole male and female XLR cable Circular capacitor around the cable shield enables low-inductive shield connection connector with integrated capacitive shield to shell connection to connector housing Female connector with circumferential Cable shield - Pin 1 connection includes • ground spring providing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



(1)



- 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)





Technical Information

Product	
Title	NC3FXX-EMC-B
Connection Type	XLR
Gender	female

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

N 4				
	ech	an	ical	

3.5 - 8.0 mm
< 50 N
< 20 N
> 1000 mating cycles
max. 0.75 mm²
max. 20 AWG
Solder contacts
Latch lock

NEUTRIK

Material		
Boot	Polyurethan	
Contact plating	0.2 μm Au hard alloy over 2 μm Ni	
Contacts	Bronze (CuSn8)	
Insert	Polyamide (PA 6.6 30 % GR)	
Locking element	Zinc diecast (ZnAl4Cu1) / Ck 67 (spring)	
Shell	Zinc diecast (ZnAl4Cu1)	
Shell plating	Black chromium	
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