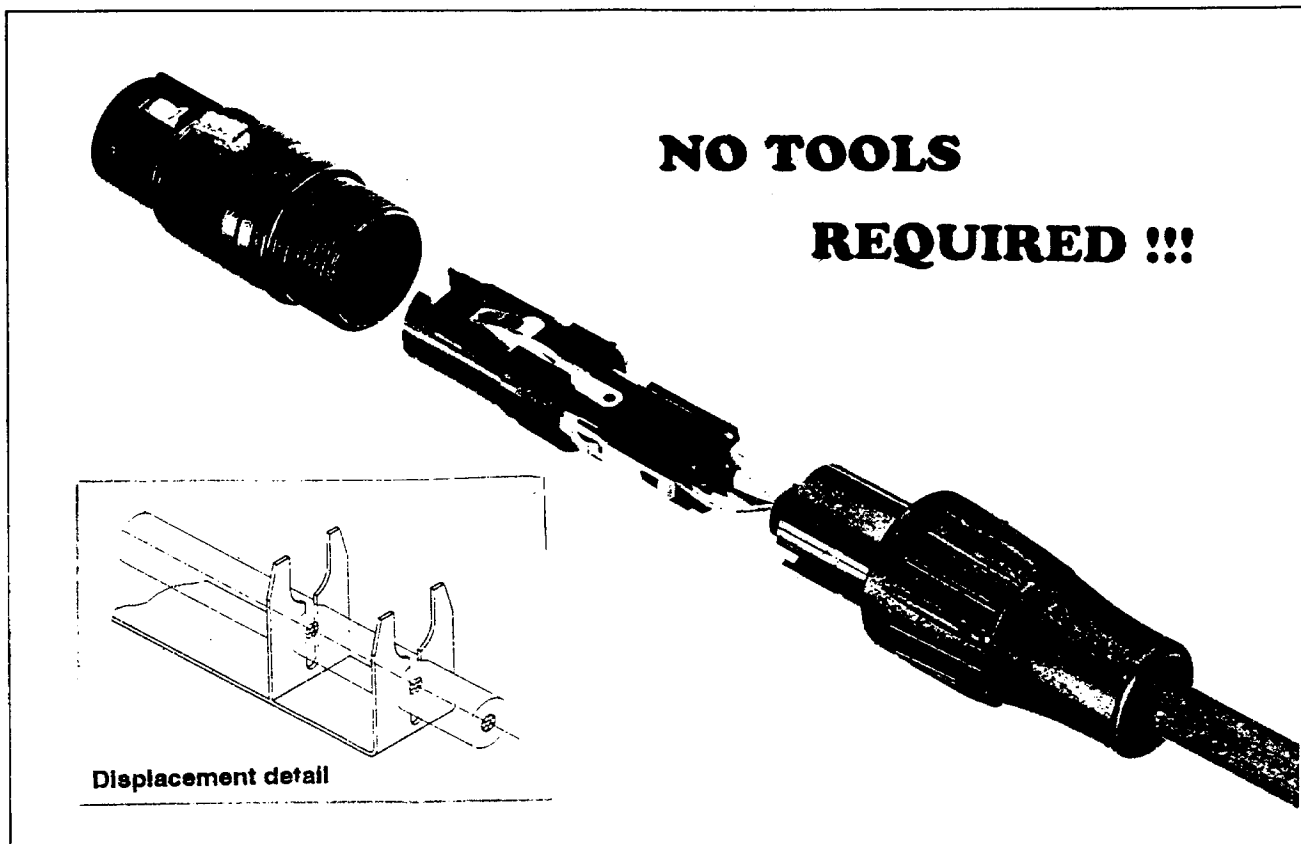




# "XY"-Series

## Non Soldering 3-pole Cable XLR's



*After intensive studies and experiments how to best apply non soldering "Insulation Displacement" technology to the termination of standard two pole shielded audio cables with XLR-connectors NEUTRIK is proud to present its XY-Series.*

*The principle benefits are:*

- *Up to 40% saving in assembly time compared with conventional methods. Up to 60% when using the assembly machine.*
- *No stripping and timing of wires.*
- *No assembly tools or soldering iron necessary - fully field serviceable.*
- *Choice of shell grounding*
- *Use of same basic elements like shell, strain-relief etc. as our X-Series, a worldwide accepted standard with more than 50 mio pcs. in use.*
- *Special shield contact (Pin1, IDC not applicable!)*
- *Double ID-contacts for highest reliability accepting wires from AWG24 to AWG26.*



# NEUTRIK

**CONNECTING THE WORLD**

CONNECTORS  
AUDIO TEST SYSTEMS

The main problem to terminate a shielded - braided or spiral - audio-cable using IDC-technology is the very different nature of the stranded, insulated inner conductors and the shield consisting of many fine bare copper wires. IDC-technology works properly with insulated wires in a defined stranded configuration, but not with an undefined bunch of fine wire. Therefore Neutrik developed a special shield-contact element to solve this problem.

Additional benefits of NEUTRIK's "solderless":

Very easy assembling: just push the two still insulated signal wires into the two IDC-contacts and the twisted shield into the dedicated shield-contact (pin 1). Press the chuck over, which in return cuts the IDC-contacts into the wires and screw-, or press-on the strain relief. No bending and insertion of wire into grooves or strenuous insertion of a "jaw" is necessary. The IDC-contact itself is furnished with two parallel cutting edges, one for 24 and the other for 26 AWG wire, thus also improving the contact reliability. The signal wires are fully protected against any undesirable contact to the shell. The chuck securely fixes cables from  $\phi$  4 mm to  $\phi$  7mm. By simply turning the chuck 90 ° you can choose whether or not the shell will be grounded.

## Specification and technical data

### Electrical :

IDC contacts for wire gauge: AWG24 (0,22mm<sup>2</sup>) and AWG26 (0,14mm<sup>2</sup>)  
Rated current per contacts: 3A

Connector contact resistance: initial: < 5m  $\Omega$

IDC contact resistance: initial: < 3m  $\Omega$

Insulation resistance: initial: > 2\*10<sup>9</sup>  $\Omega$   
after salt mist and damp heat test: > 1\*10<sup>9</sup>  $\Omega$

Dielectric withstanding voltage: 1'500 VDC

Capacity between contacts: < 4 pF

### Mechanical:

Cable OD-range:  $\phi$  4mm -  $\phi$  7mm

Cable pullout force: > 250 N

Insertion/withdrawal force: < 20 N

### Materials:

Female contact elements: CuSn6 2u Ag or 0,2u Au

Male contact elements: CuZn39Pb2 + CuSn6 2u Ag or 0,2u Au

Insert material: PA 6.6 gr

Chuck: POM

Boot: PA 6.6 gr

Shell: ZnAl4Cu1 nickel plated or black chromium

Latch: St3K32 nickel plated

Springs: CK67 Optalloy plated

## Ordering information

Type	Gender	Housing	Contacts
NC3FX	F	Nickel	Silver
NC3FX-B	F	Black	Gold
NC3FX-BAG	F	Black	Silver
NC3MXY	M	Nickel	Silver
NC3MXY-B	M	Black	Gold
NC3MXY-BAG	M	Black	Silver
HTY	Assembly Hand Tool		
BTY	Assembly Bench Tool		
ATY	Assembly Machine		

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