



PRODUCT MANUAL

powerCON® | Locking 3 pole Appliance Coupler NAC3FXXA-W-S, NAC3FXXA-W-L NAC3FXXB-W-S, NAC3FXXB-W-L

1 APPLICATION & SAFETY INSTRUCTION

✓ IP 20

APPLICATION:

- The powerCON system is certified as appliance couplers with breaking capacity according to IEC 60320-1, EN IEC 60320-1, UL 60320-1, CSA C22.2 No. 60320-1.
- It serves to supply power to an appliance and from an appliance to other equipment.
- To be installed by qualified person only.
- Appliance couplers acc. to IEC 60320-1 are suitable to be used in cord sets and interconnection cord sets acc. to IEC 60799.

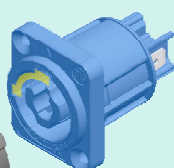
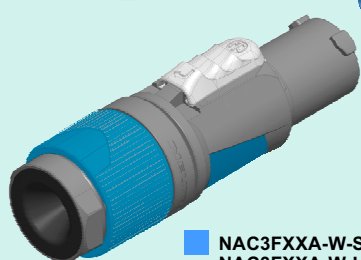
Connector Combination & Keyways:

With the two non-interchangeable types (connectors and plug connectors) it is impossible to produce a short circuit. Mating combination are identified by mechanical keyways and by color.

APPLIANCE INLET

Color coding blue

Power IN



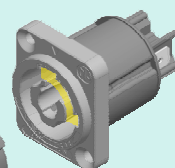
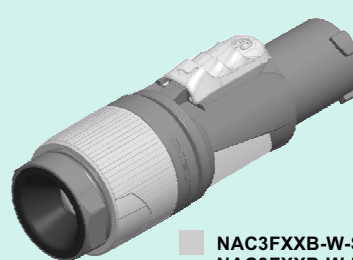
NAC3MPXXA
NAC3MPXXA-WOT
NAC3MPA-1-WOT
NAC3MPA-1
NAC3MM1

NAC3FXXA-W-S
NAC3FXXA-W-L

APPLIANCE OUTLET

Color coding gray

Power OUT



NAC3MPXXB
NAC3MPXXB-WOT
NAC3MPB-1-WOT
NAC3MPB-1
NAC3MM-1

NAC3FXXB-W-S
NAC3FXXB-W-L

Products are in compliance with:

IEC 60320-1
EN IEC 60320-1



UL 60320-1
CSA C22.2 No. 60320-1



Ratings:

16 A 250 V ac

20 A 127 V ac

Conductor cross section:

1.5 - 2.5 mm²

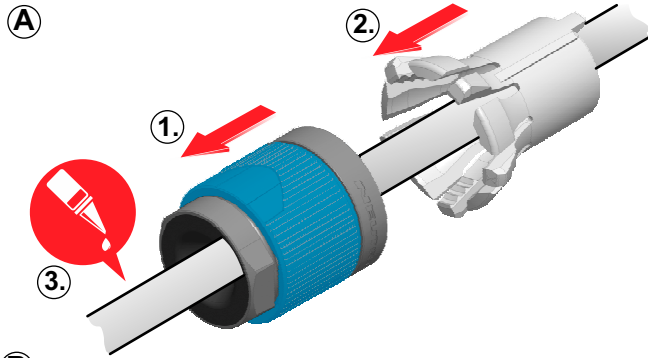
16 - 12 AWG

CABLE LIST

Cable: IEC 60320-1 EN IEC 60320-1	3 x 1.5 mm ²	3 x 2.5 mm ²	
■ H07RN-F	-S	-L	
■ H05RN-F	-S	-	
■ H05VV-F	-S	-S	
Cable: UL 60320-1, CAN/CSA-C22.2 No. 60320-1	16/3 AWG	14/3 AWG	12/3 AWG
■ SOOW	-S	-L	-L
■ SJOOW	-S	-S	-L
■ SJTOOW	-S	-S	-S



2 ASSEMBLY INFORMATION



Place the bushing (1) and chuck (2) over the cable.

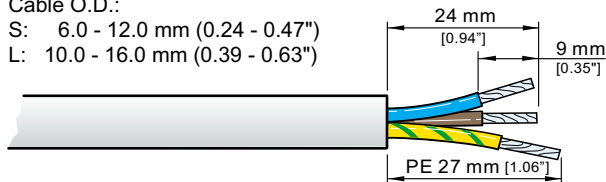
Important: Chuck and Bushing cannot be placed over the cable after the assembly of the insert.

(3) For easier assembly please use a cable lubricant.

B

IEC 60320-1
EN IEC 60320-1

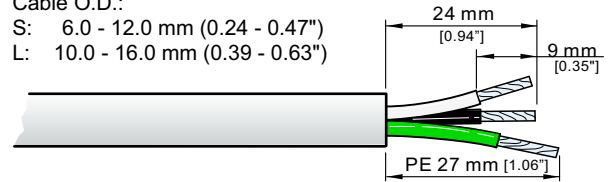
Cable O.D.:
S: 6.0 - 12.0 mm (0.24 - 0.47")
L: 10.0 - 16.0 mm (0.39 - 0.63")



Prepare cable as shown.

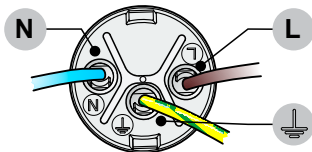
UL60320-1
CSA C22.2 No. 60320-1

Cable O.D.:
S: 6.0 - 12.0 mm (0.24 - 0.47")
L: 10.0 - 16.0 mm (0.39 - 0.63")

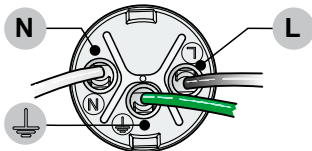


C

IEC/EN 60230-1



UL60320-1
CSA C22.2 No. 60320-1



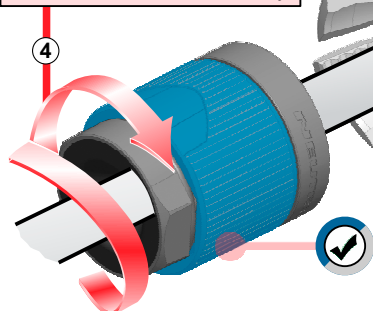
Torque Value 0.7 Nm
(6.2 inch pound / 0.52 lb.ft)

Slide the cable into the contacts and clamp with the screw with Torx size T8.

Typical Wiring	IEC 60230-1 EN IEC 60230-1	UL60320-1 CSA-C22.2 No. 60320-1
L ⇒	brown	black
N ⇒	blue	white
PE ⇒	green/yellow	green

D

Important:
Push and turn simultaneously.



Important:
Align the chuck by positioning the nose into keyway.

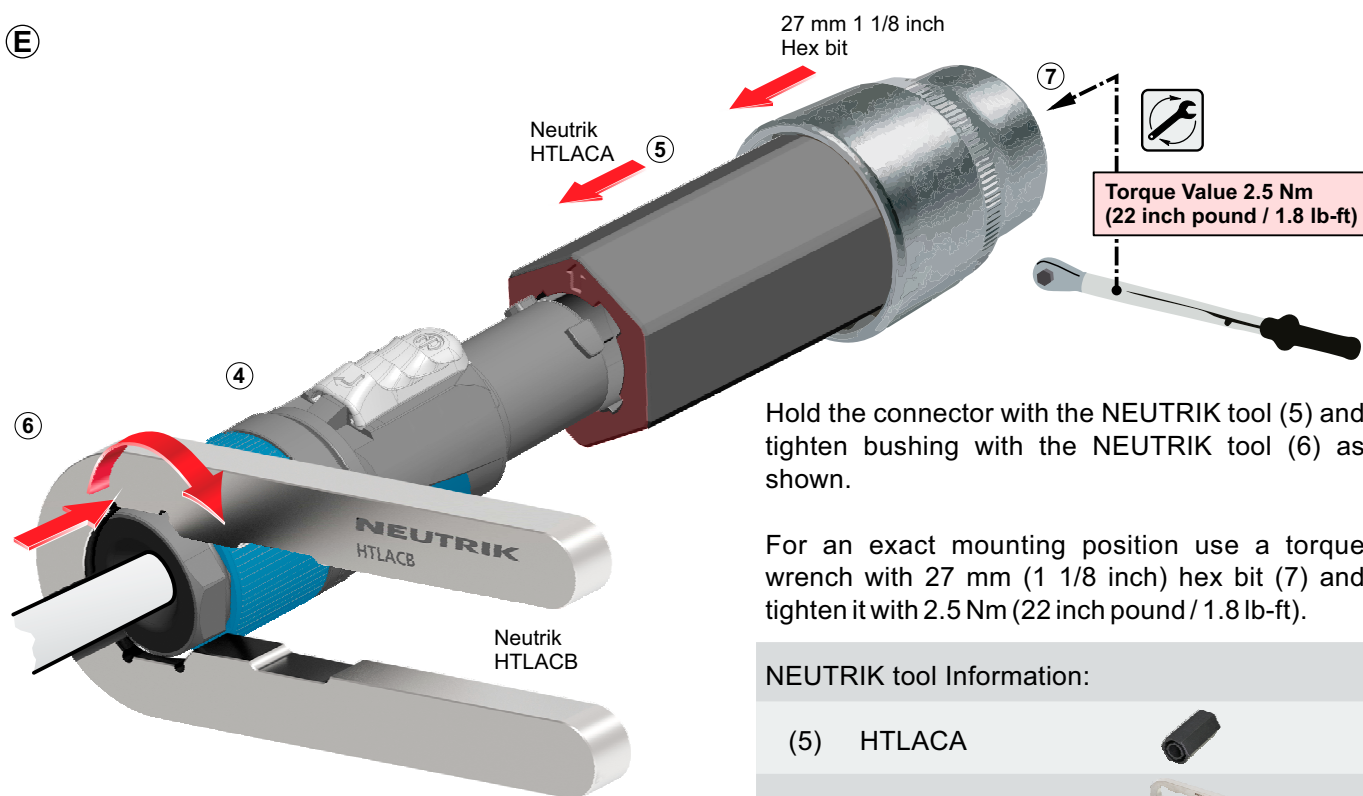
Position chuck (1) on insert (2).

Slide insert (2) with chuck (1) together into housing (3).

Slide bushing (4) over chuck (1).

Important:
All 3 parts must have the SAME COLOR CODING, BLUE (IN) or Grey (OUT).

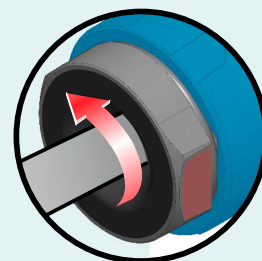
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3 DISASSEMBLY INFORMATION

FOR DISASSEMBLY!

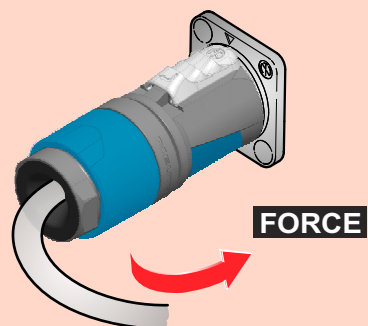
1. Use the Neutrik tool HTLACB.
2. Position the tool on the surfaces and open the clamping sleeve.



4 SAFETY INFORMATION

CAUTION

To ensure protection category, do not expose the connection to bending forces (e.g. do not attach loads to the cable, no free-dangling cable windings etc.).



SAFETY WARNING

For safety reasons the appliance couplers must be replaced in case of any broken parts or excessive wear and tear.



5 Application and Safety Instructions

A Assembly

- When assembling and processing the product, ensure the use of appropriate personal protective equipment.
- Neutrik components must only be assembled with designated and specified components.
- Replacement parts are suitable only when used in combination with the designated components. The product's characteristics are guaranteed only in the intended combination.

B Application

- The product is exclusively intended for installation in electronic equipment or similar devices.
- The product is not intended for use in medical applications.
- The product is not intended for use in potentially explosive or flammable environments.
- Appliance couplers are not intended for use as climbing aids. Caution: Electrical hazards!
- For indoor use only .

C Operation

- Before plugging in, check the contact area for dry surfaces.
- Product surfaces may cause burns at elevated ambient temperatures. Ensure the use of appropriate protective equipment.
- Neutrik products should only be combined with products from Neutrik Group brands.
- Customer is responsible for ensuring the male contact is in a stress-free state when not plugged in.
- Children should be supervised to ensure they do not play with the product.

D Cleaning

- Clean only with dry and lint-free materials or compressed air.
- The product must not be cleaned while under load. The product may only be cleaned while it is not connected to any voltage and without the use of cleaning agents.

E Damages

- Handle products with care.
- In case of visible damages, check the suitability of the product for use.
- Local legal regulations must be observed when disposing of the product.

6 More Information on the website

<https://www.neutrik.com/en/neutrik/products/powercon-r/powercon-xx-series>



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www.neutrik.com

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