# APPLICATION & ASSEMBLY INSTRUCTION

## powerCON® TRUE1 TOP
## NAC3MX-W-TOP-S | NAC3MX-W-TOP-L

## A APPLICATION INSTRUCTION

### APPLICATION:

- The powerCON TRUE1 TOP system is certified as a connector with breaking capacity according IEC 60320,VDE 60320.
- It is intended for use as an appliance coupler and interconnection coupler.
- It serves to supply power to an appliance and from an appliance to other equipment.
- To be installed by qualified person only.

### CONNECTOR ASSIGNMENT:

**APPLIANCE INLET**

NAC3MPX-TOP
NAC3MPX-WOT-TOP
Power IN

NAC3FX-W-TOP-S
NAC3FX-W-TOP-L

**APPLIANCE OUTLET**

NAC3MX-W-TOP-S
NAC3MX-W-TOP-L

NAC3FPX-TOP
NAC3FPX-WOT-TOP
NAC3FPX-ST-TOP
Power OUT

NAC3FX-W-TOP-S
NAC3FX-W-TOP-L

**APPLIANCE INLET / OUTLET**
▶ Combination

NAC3PX-TOP
Power IN

Power OUT

NAC3MX-W-TOP-S
NAC3MX-W-TOP-L

▶ powerCON TRUE1 TOP line is full backward compatible with the preceding powerCON TRUE1 products.

| Approval based: | | IEC/EN 60320-1 ✓ | UL 60320-1<br>CAN/CSA-C22.2 No. 60320-1 ✓ |
|---|---|---|---|
| Rating: | | 250 V ac / 16 A | 250 V ac / 20 A |
| Wire size: | | 1.0 - 2.5 mm² | 16 - 12 AWG |
| Cable O.D.: | *-TOP-S | 6.0 - 12.0 mm (0.24 - 0.47") | 6.0 - 12.0 mm (0.24 - 0.47") |
| | *-TOP-L | 10.0 - 16.0 mm (0.39 - 0.63") | 10.0 - 16.0 mm (0.39 - 0.63") |

## CABLE LIST

| Cable:<br>IEC/EN 60320-1 | 3 x 1.0 mm²<br>(max. 2 m) | 3 x 1.5 mm² | 3 x 2.5 mm² | |
|---|---|---|---|---|
| H07RN-F | - | TOP-S | TOP-L | |
| H05RR-F | - | - | TOP-S | |
| H05RN-F | TOP-S | TOP-S | - | |
| H05VV-F | TOP-S | TOP-S | TOP-S | |

| Cable: UL 60320-1, CAN/CSA-C22.2 No. 60320-1 | | 16/3 AWG | 14/3 AWG | 12/3 AWG |
|---|---|---|---|---|
| SOOW | | TOP-S | TOP-L | TOP-L |
| SJOOW | | TOP-S | TOP-S | TOP-L |
| SJTOOW | | TOP-S | TOP-S | TOP-S |

## B ASSEMBLY INFORMATION

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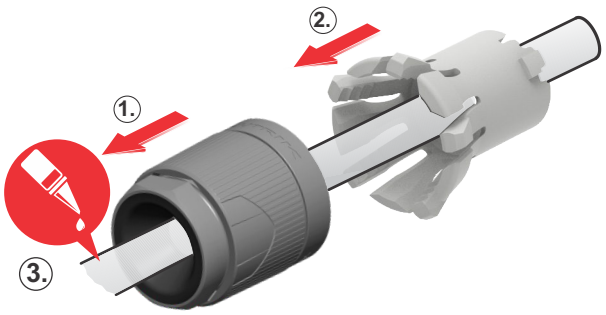


Place the bushing (1) and chuck (2) over the cable.

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

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

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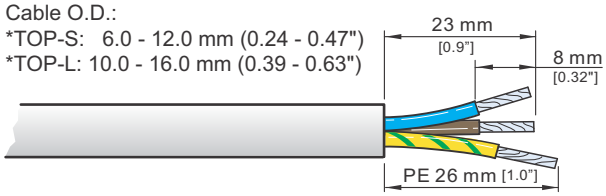
Prepare cable as shown.

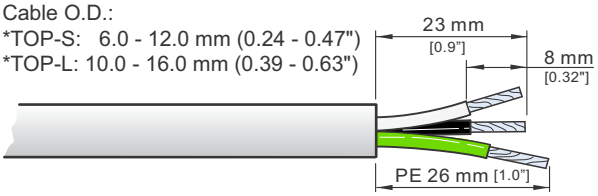
■ IEC/EN 60320-1

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




■ UL60320-1
CAN/CSA-C22.2 No. 60320-1

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

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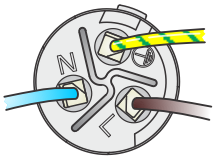
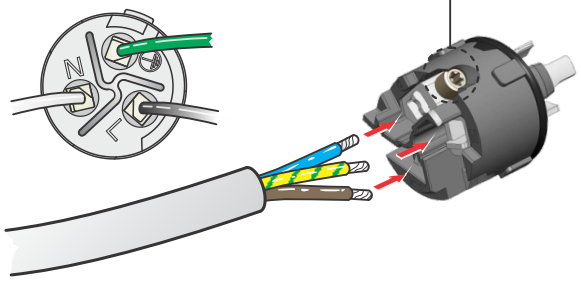
**IEC/EN 60230-1**




Torx size T8

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

**UL60320-1 CAN/CSA-C22.2 No. 60320-1**




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

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

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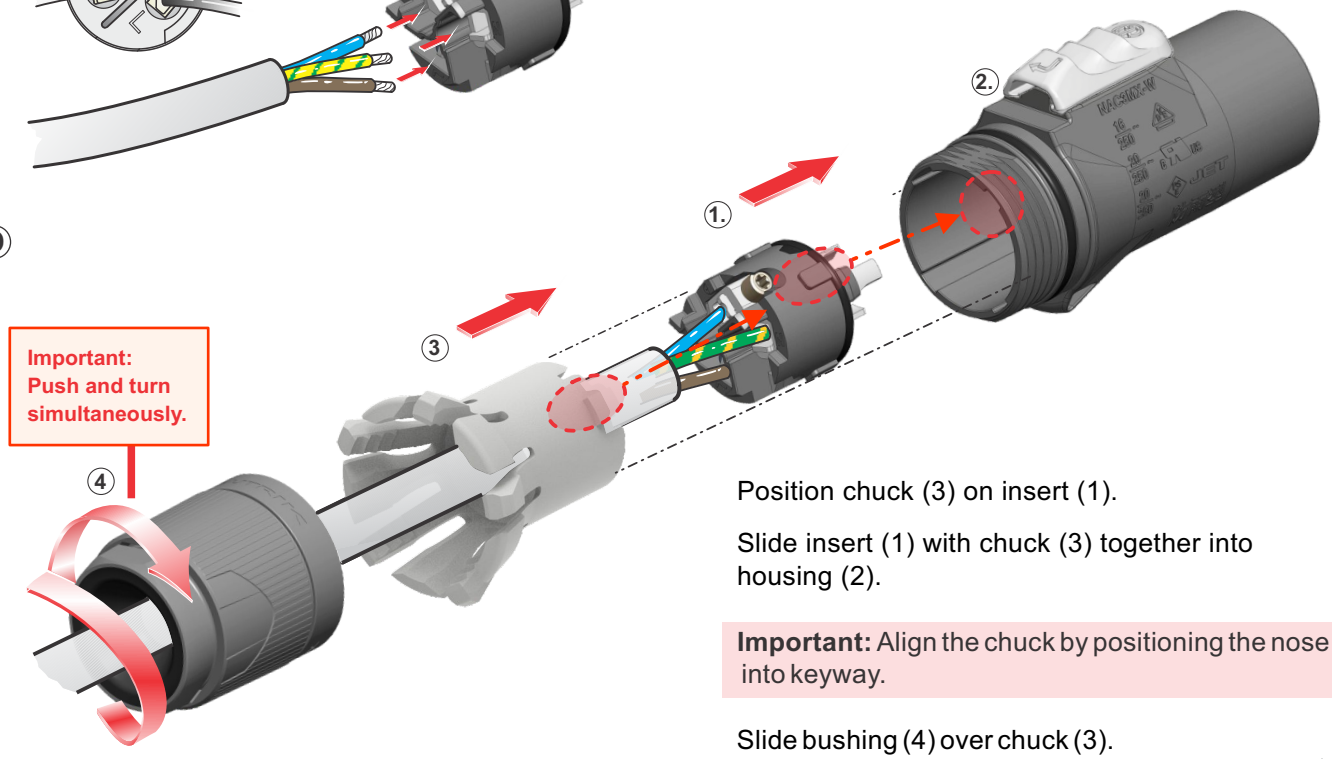
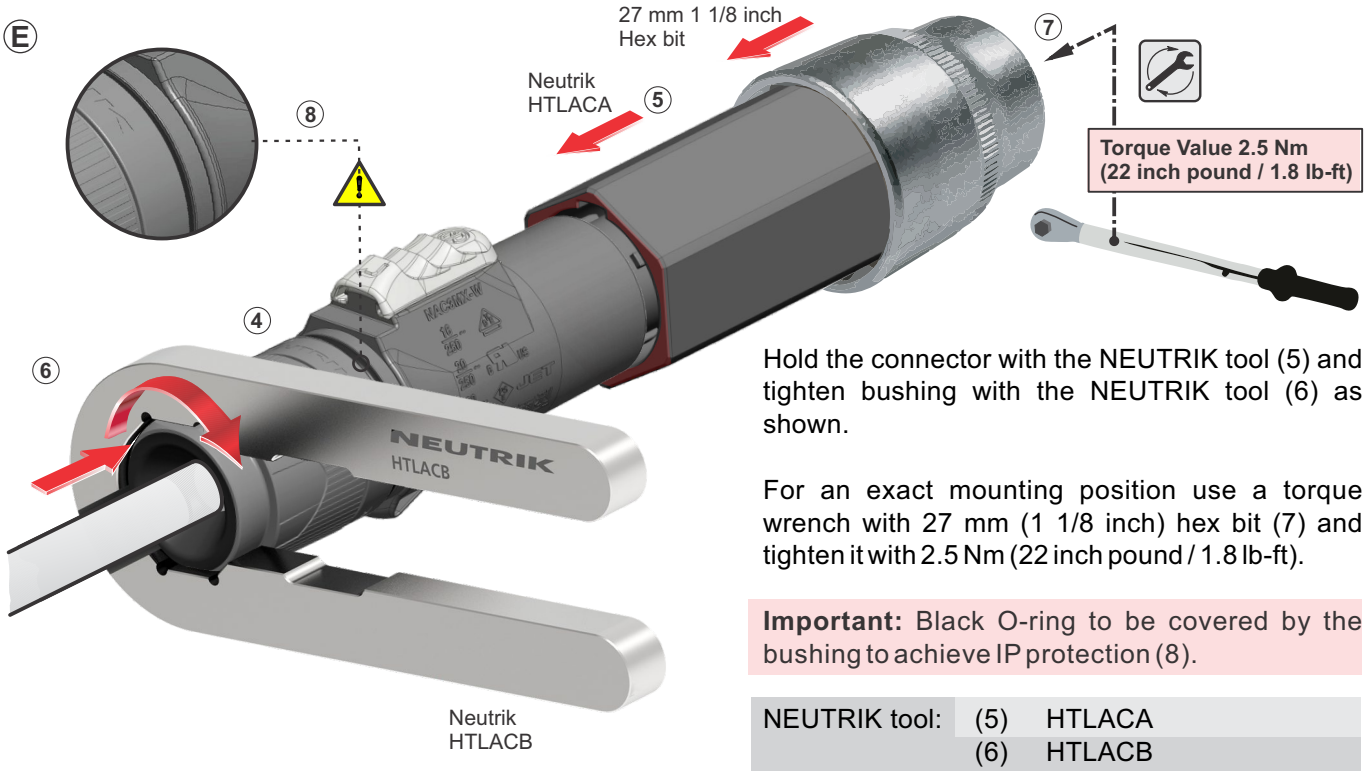



Position chuck (3) on insert (1).

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

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

Slide bushing (4) over chuck (3).




Hold the connector with the NEUTRIK tool (5) and tighten bushing with the NEUTRIK tool (6) as shown.

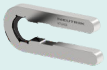
For an exact mounting position use a torque wrench with 27 mm (1 1/8 inch) hex bit (7) and tighten it with 2.5 Nm (22 inch pound / 1.8 lb-ft).

**Important:** Black O-ring to be covered by the bushing to achieve IP protection (8).

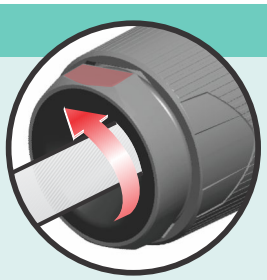
| NEUTRIK tool: | (5) | HTLACA |
|---|---|---|
| | (6) | HTLACB |

## C FOR DISASSEMBLY

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



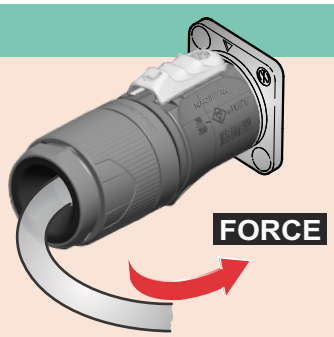
HTLACB



## D 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 and certification reasons the connector must be replaced in case of any broken parts or excessive wear and tear.

## E More Information on the www.neutrik.com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|---|---|---|---|---|---|---|---|
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