NAC3FX-W | powerCON TRUE1

Locking female cable connector, power-in, screw terminals

The powerCON TRUE1 is a locking 20 A true mains connector. It replaces appliance couplers wherever a very rugged solution in combination with a locking device is needed in order to guarantee a safe power connection.

The powerCON TRUE1 is a connector with breaking capacity (CBC), i.e. it can be connected or disconnected under load or live.

Features & Benefits

- True mains connector with breaking capacity (CBC)
- Lockable 20 A single phase connector
- Dust and water resistant according to IP65 in mated condition
- Easy and reliable twist lock system
- Extremely robust and reliable
- Unique Neutrik cable retention
- ENEC certified according to IEC 60320
- UL recognized components

Technical Information

Product	
Title	NAC3FX-W

Electrical	
Contact resistance	≤ 3 mΩ (inner)
Dielectric strength	4 kVdc / 2.8 kVac
Insulation resistance	> 0,1 GΩ (after damp heat test IEC 68-2-30)
Number of electronical contacts	2 + PE
Rated current per contact	16 A rms (USA: 20 A)
Rated voltage	250 V ac

Mechanical	
Cable O.D.	6 - 12 mm
Lifetime	> 5000 mating cycles
Wiresize	1.0 - 2.5 mm²
Wiresize	12 AWG

Material	
Contact plating	2 µm Ag
Contacts	Bronze (CuSn0.2)
Insert	Polyamide (PA 6.6 30 % GR)
Locking element	ZuAl4Cu1
Shell	Polyamide (PA 6.6 30 % GR)
Strain relief	Polyacetal (POM)

Environmental	
Flammability	UL 94 V-0
Protection class	IP 65 (mated)
Temperature range	-30 °C to +80 °C

Mating scenario powerCON TRUE 1 chassis connector NAC3FPX-W

Bild 1 von 2

Mating scenario powerCON TRUE 1 chassis connector NAC3PX

Bild 2 von 2

Distributor:

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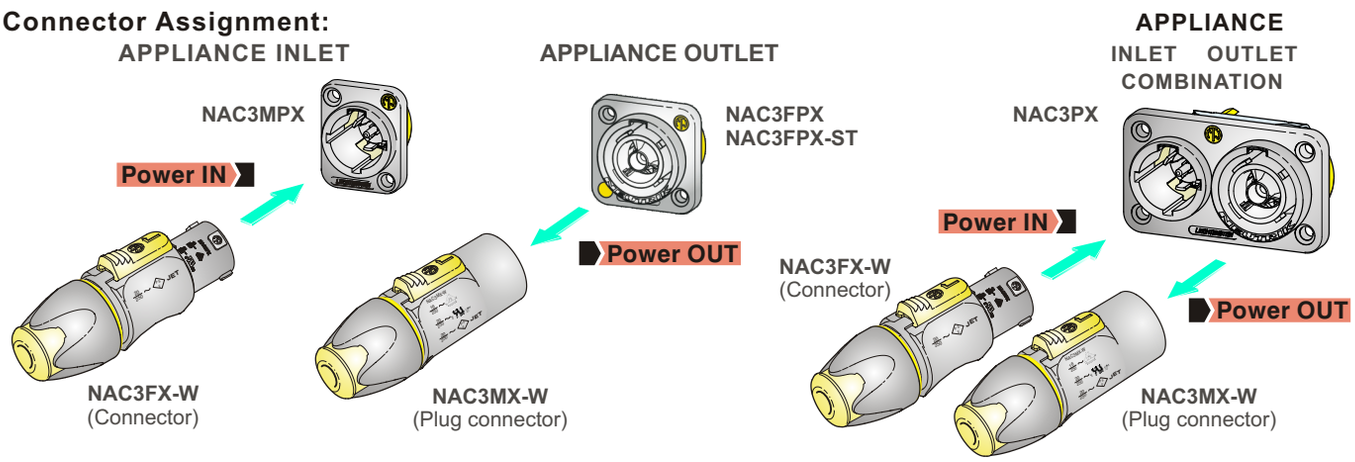
OPERATING & ASSEMBLY INSTRUCTION

NAC3FX-W | powerCON TRUE1

A. OPERATING INSTRUCTION

Application:
The powerCON TRUE1 system is certified as connector with breaking capacity according IEC 60320, VDE 0625. It is intended for use as appliance couplers and interconnection couplers. It serves to supply power to an appliance and from an appliance to another equipment. To be installed by qualified person only.

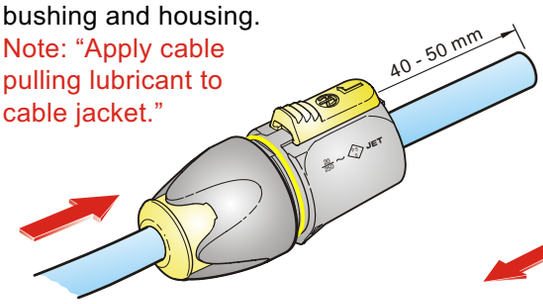
Connector Assignment:



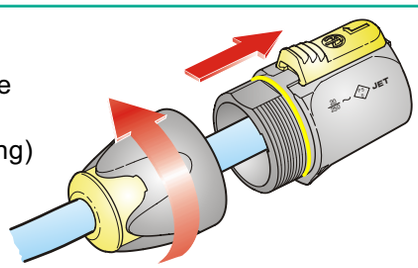
Approval based:	**VDE** EN 60320-1/EN60320-2-2 ✓	**UL** UL 498 / CSA C22.2 No. 182.3 ✓
Rating:	250 V ac / 16 A	250 V ac / 20 A
Cable Type:	H05VV-F3G 1.0 mm², Length max. 2 m	SJTOW, SJOOW 3 x 12 AWG
	H05VV-F3G 1.5 - 2.5 mm²	
	H07RN-F3G 1.5 mm²	
Strain Relief:	White chuck	White chuck
Cable O.D.:	6.0 - 12.0 mm	6.0 - 12.0 mm

B. ASSEMBLY INSTRUCTION

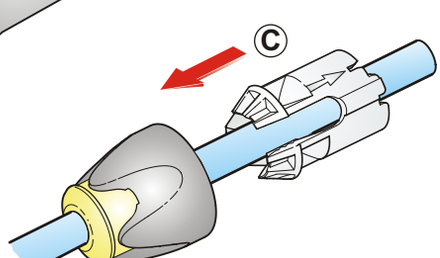
Ⓐ Insert cable into the bushing and housing.
Note: “Apply cable pulling lubricant to cable jacket.”



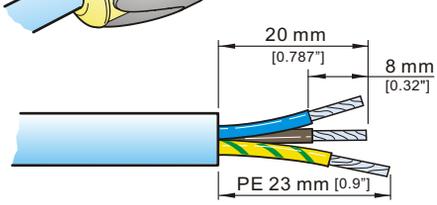
Ⓑ Separate the housing from the bushing (cable remain in bushing)

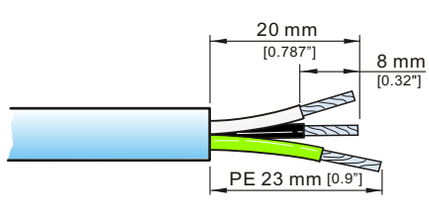


Ⓒ Place chuck over the cable.



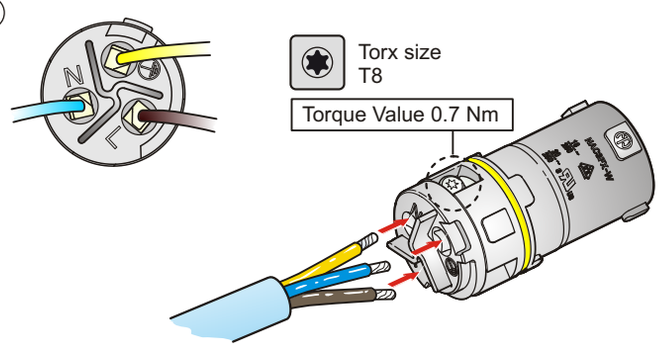
Ⓓ Prepare cable as shown.





VDE (EN 60320-1/EN60320-2-2) | **UL** (UL 498 / CSA C22.2 No. 182.3)

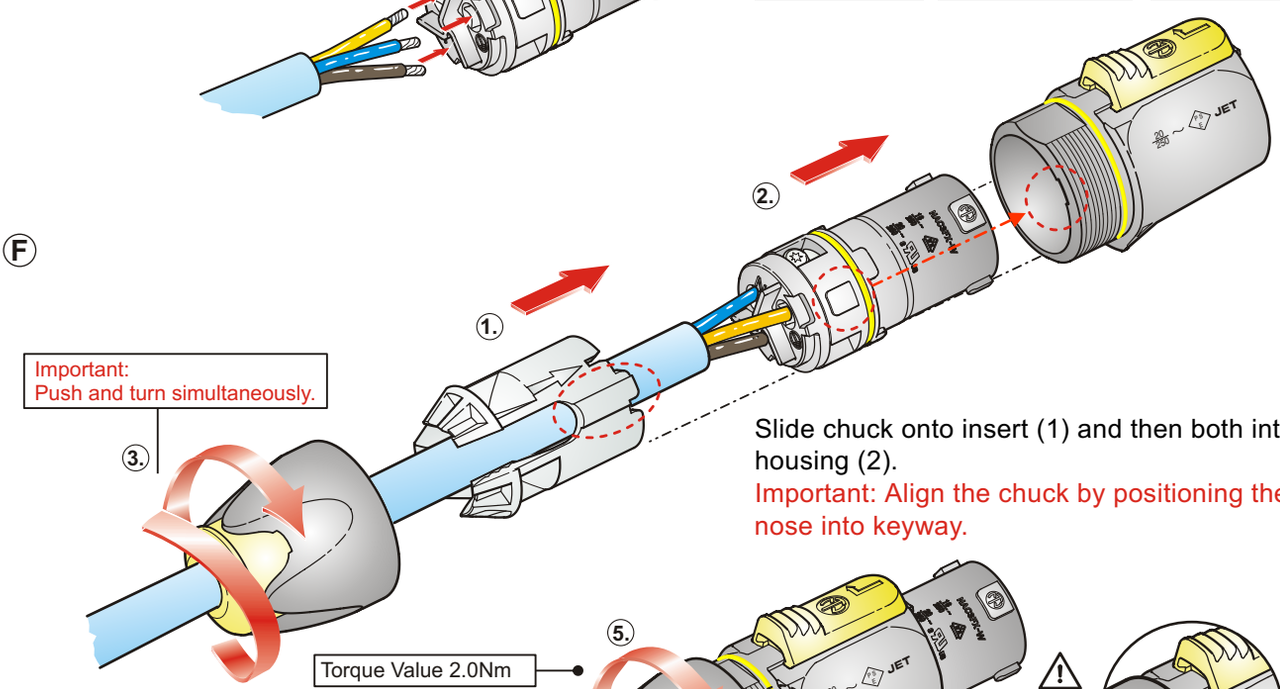
E



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

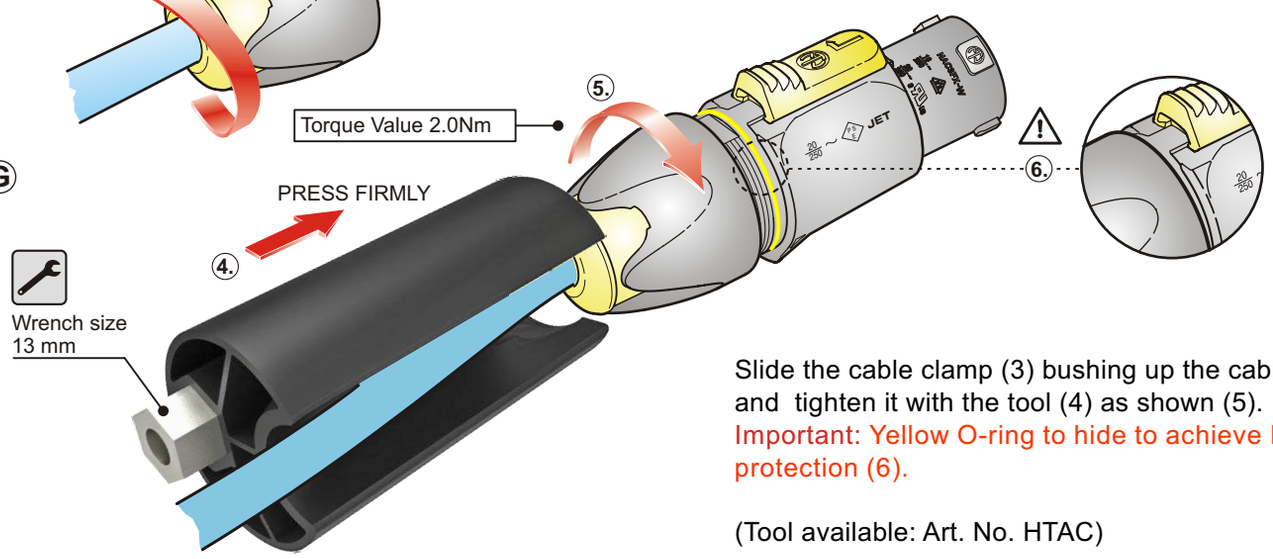
Wiring	VDE	UL
L ⇒	brown	black
N ⇒	blue	white
⏚ ⇒	green/yellow	green

F



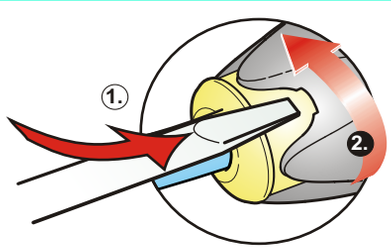
Slide chuck onto insert (1) and then both into housing (2).
Important: Align the chuck by positioning the nose into keyway.

G



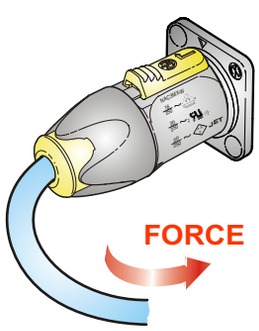
Slide the cable clamp (3) bushing up the cable and tighten it with the tool (4) as shown (5).
Important: Yellow O-ring to hide to achieve IP protection (6).

(Tool available: Art. No. HTAC)



Disassembly (open twist lock):

1. Press with screw driver to unlock
2. Turn bushing while still pressing locking.



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.).

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