



## NAC3F-TRUE1-L

The powerCON TRUE1 is a locking true mains connector for harsh and demanding applications. 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 series with breaking capacity (CBC), i.e. it can be connected or disconnected under load or live.





## Features & Benefits

- Heavy duty sealed power connector for harsh and demanding environment
- Lockable single phase connector
- ENEC and VDE certified according to IEC 60320-1 and EN IEC 60320-1
- IP65 and IP67 (mated or with closed cap)
- Easy and reliable twist lock system
- Uses high impact UV-resistant materials
- Extremely robust and reliable
- UL and CSA Certified According to UL 60320-1 and CSA 22.2 No. 60320-1
- True mains connector with breaking capacity (CBC)
- Unique NEUTRIK locking bushing and strain relief for cable diameters 10 mm to 16 mm (0.39 – 0.63 inches)

## Product related questions and answers

Question	Answer
What is the different between the -S and -L Version?	<p>Both versions are fully certified according to EN IEC 60320-1, UL 60320-1 and CSA 22.2 No. 60320-1.</p> <p>The S-version is certified other Cables then the L-version, cables as follows:</p> <p>S-Version: H05VV-F 3G1.5mm<sup>2</sup>, H05VV-F 3G2.5mm<sup>2</sup>, H07RN-F 3G 1.5 mm<sup>2</sup> and SJOOW 14/3 AWG.</p> <p>L-Version: H07RN-F 3G 2.5 mm<sup>2</sup>, SOOW 16/3, SJOOW 16/3 and SJOOW 14/3</p>
When is the IEC 60799 relevant?	<p>This standard applies for "Cord Sets And Interconnection Cord Sets" and therefore covers cables to the mains and cables acting as power interconnections.</p>
Why is the bushing loose in one direction?	<p>This is to meet the standards requirement to prevent disassembling by hand. In order to open the cable entry a special tool will be required.</p>

## Technical Information

Product	
<b>Title</b>	NAC3F-TRUE1-L
<b>Product Family</b>	powerCON® TRUE1

Electrical	
<b>Contact resistance</b>	≤ 2 mΩ
<b>Dielectric strength</b>	4 kVdc / 2.8 kVac
<b>Insulation resistance</b>	>0.1GΩ (after damp and heat test IEC 68-2-30)
<b>Number of electrical contacts</b>	2 + PE
<b>Rating Europe</b>	16 A / 250 V AC according to EN IEC 60320-1
<b>Rating America</b>	20 A / 250 V AC according to UL 60320-1 20 A / 250 V AC according to CSA C22.2 No. 60320-1

Mechanical	
<b>Cable O.D.</b>	10 - 16 mm (0.39 – 0.63 inches)
<b>Lifetime</b>	> 5000 mating cycles
<b>Wiresize (mm<sup>2</sup>)</b>	1.0 – 2.5mm <sup>2</sup>
<b>Wiresize (AWG)</b>	14 - 12 AWG

Material	
Contact plating	2 µm Ag
Locking element	Polyamide (PA 66)
Contacts	Copper Alloy
Insert	Polyamide (PA 66)
Shell	Polyamide (PA 66)
Strain relief	Polyketon

Environmental	
Flammability	UL 94 V-0
Protection class	IP 65 / 67 (mated or with closed caps)
UV resistance	F1 rated material withstands UV exposure
Temperature range	-30°C to +80°C according to IEC 61984 -5°C to +40°C according to IEC 60320-1