



## NAC3F-TRUE1-S

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 and Benefits

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Heavy duty sealed power connector for harsh and demanding environment</li></ul> | <ul style="list-style-type: none"><li>• Uses high impact UV-resistant materials</li></ul>   |
| <ul style="list-style-type: none"><li>• Lockable single phase connector</li></ul>                                       | <ul style="list-style-type: none"><li>• Extremely robust and reliable</li></ul>   |
| <ul style="list-style-type: none"><li>• ENEC and VDE certified according to IEC 60320-1 and EN IEC 60320-1</li></ul>    | <ul style="list-style-type: none"><li>• UL and CSA Certified According to UL 60320-1 and CSA 22.2 No. 60320-1</li></ul>                                   |
| <ul style="list-style-type: none"><li>• IP65 and IP67 (mated or with closed cap)</li></ul>                              | <ul style="list-style-type: none"><li>• True mains connector with breaking capacity (CBC)</li></ul>   |
| <ul style="list-style-type: none"><li>• Easy and reliable twist lock system</li></ul>                                   | <ul style="list-style-type: none"><li>• Unique NEUTRIK locking bushing and strain relief for cable diameters 6 mm to 12 mm (0.23 – 0.47 inches)</li></ul> |

## 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	
Title	NAC3F-TRUE1-S
Product family	powerCON® TRUE1

Electrical	
Contact resistance	$\leq 2 \text{ m}\Omega$
Dielectric strength	4 kVdc / 2.8 kVac
Insulation resistance	$> 1 \text{ G}\Omega$ (after damp and heat test IEC 68-2-30)
Number of electrical contacts	2 + PE
Rating Europe	16 A / 250 V AC according to EN IEC 60320-1
Rating America	20 A / 250 V AC according to UL 60320-1 20 A / 250 V AC according to CSA C22.2 No. 60320-1

Mechanical	
Cable O.D.	6 - 12 mm (0.23 – 0.47 inches)
Lifetime	$> 5000$ mating cycles
Wiresize (mm <sup>2</sup> )	1.5 - 2.5 mm <sup>2</sup>
Wiresize (AWG)	14 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