



NAC3M-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 and Benefits

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| <ul style="list-style-type: none">• Heavy duty sealed power connector for harsh and demanding environment | <ul style="list-style-type: none">• Uses high impact UV-resistant materials |
| <ul style="list-style-type: none">• Lockable single phase connector | <ul style="list-style-type: none">• Extremely robust and reliable |
| <ul style="list-style-type: none">• ENEC and VDE certified according to IEC 60320-1 and EN IEC 60320-1 | <ul style="list-style-type: none">• UL and CSA Certified According to UL 60320-1 and CSA 22.2 No. 60320-1 |
| <ul style="list-style-type: none">• IP65 and IP67 (mated or with closed cap) | <ul style="list-style-type: none">• True mains connector with breaking capacity (CBC) |
| <ul style="list-style-type: none">• Easy and reliable twist lock system | <ul style="list-style-type: none">• 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 3G1.5mm², H05VV-F 3G2.5mm², H07RN-F 3G 1.5 mm² and SJOOW 14/3 AWG.</p> <p>L-Version: H07RN-F 3G 2.5 mm², 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	NAC3M-TRUE1-L
Product family	powerCON® TRUE1

Electrical	
Contact resistance	$\leq 2 \text{ m}\Omega$
Dielectric strength	4 kVdc / 2.8 kVac
Insulation resistance	$>0.1 \text{ G}\Omega$ (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.	10 - 16 mm (0.39 – 0.63 inches)
Lifetime	> 5000 mating cycles
Wiresize (mm ²)	1.0 – 2.5mm ²
Wiresize (AWG)	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