

NAC3FX-W-TOP-L

PHASE OUT

direct replacement / successor: NAC3F-TRUE1-L



Locking female cable connector for big power cord diameters 10–16 mm (0.39–0.63 inches) such as H07RN-F3G2.5 or SOOW 12/3 / SOOW 14/3.

Certified to EN/UL 60320-1.



Power out, screw terminals, IP65, up to 16 A (USA: 20A)

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





Features & Benefits

- ✓ For cable diameters 10-16 mm (0.39 – 0.63 inches)
- ✓ IEC EN 60320-1 and UL 60320-1 certified, thus accepted as a component for cord sets acc. to IEC 60799 and of equipment acc. to IEC 62368-1
- ✓ Heavy duty sealed power connector for harsh and demanding environment
- ✓ TOP True Outdoor Protection
- ✓ Uses high impact UV-resistant materials
- ✓ Single phase connector with Circuit Breaking Capability (20 A 250 VAC)
- ✓ Extremely robust and reliable cable retention
- ✓ Superior NEUTRIK quality standard

Product related questions and answers

Question	Answer
Is the new cable entry patented?	There is a patent application in process which is related to the cable entry section.

<p>How are the certifications different to the current version NAC3*X-W-TOP?</p>	<p>EN certification: Both versions are certified according to EN 60320-1. The new L-version however is certified for large cables as follows: H07RN-F 3G 2,5 mm² The old version is certified for cable types: H07RN-F 3G 1,5 mm² and H05VV-F 3G 1,0 - 2,5 mm² UL certification: The new L-version is certified according to UL 60320-1 for cables SOOW 12/3 and SOOW 14/3. The old version is certified according to UL 498. JET certification: Both versions are JET certified.</p>
<p>What are the mechanical differences to the current version NAC3*X-W-TOP?</p>	<p>The whole cable entry section had to be redesigned in order to:</p> <ul style="list-style-type: none"> - To cover the large cable range (10 - 16mm) - To meet the standards requirement to prevent disassembling by hand - To improve the assembly process <p>The housing and insert parts are the same</p>
<p>When is the IEC 60799 relevant?</p>	<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>
<p>Why is the bushing loose in one direction?</p>	<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	NAC3FX-W-TOP-L
Connector series	powerCON TRUE1 TOP

Electrical	
Dielectric strength	2.8 kVac
Insulation resistance	> 0.1 GΩ
Number of electrical contacts	2 + PE
Rating Europe	IEC EN 60320-1: 16 A 250 V AC
	Certified with cable types: H07RN-F3G2.5
Rating USA	UL 60320-1 & C22.2 No. 60320-1:19: 20 A 250 V AC
	Certified with cable types:
	- SOOW 12/3, SOOW 14/3
	- SJOOW 12/3

Mechanical	
Cable O.D.	10 – 16 mm (0.39 – 0.63 inches)
Lifetime	Typically 5'000 mating cycles
Wire size (mm ²)	2.5 mm ²
Wire size (AWG)	14 – 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	IP65, UL50E enclosure type 4 (mated)
Temperature range	-30 °C to +80 °C