NAC3MX-W-TOP-L

PHASE OUT

direct replacement / successor: NAC3M-TRUE1-L

Locking cable connector for big power cords with outer diameters from 10–16 mm (0.39 – 0.63 inches) such as H07RN-F3G2.5 or SOOW 12/3 and SOOW 14/3. Certified to EN/UL 60320-1.

Locking cable connector, power outlet, screw terminal, IP65, 16A (USA: 20A)

The powerCON TRUE1 TOP is a lockable single phase connector with breaking capacity (CBC) for outdoor applications.

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
- 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.
How are the certifications different to the current version NAC3*X-W-TOP?	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.
What are the mechanical differences to the current version NAC3*X-W-TOP?	The whole cable entry section had to be redesigned in order to: - To cover the large cable range (10 - 16mm) - To meet the standards requirement to prevent disassembling by hand - To improve the assembly process The housing and insert parts are the same
When is the IEC 60799 relevant?	This standard applies for "Cord Sets And Interconnection Cord Sets" and therefore covers cables to the mains and cables acting as power interconnections.
Why is the bushing loose in one direction?	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.

Technical Information

Product	
Title	NAC3MX-W-TOP-L
Connector series	powerCON TRUE1

NEUTRIK

Electrical	
Dieletric strength	2.8 kVac
Insulation resistance	> 0.1 GΩ
Number of electronical 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 (mm²)	2.5 mm²
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	
Temperature range	-30 °C to +80 °C
Flammability	UL94 V-0
Protection class	IP65
UV resistance	F1 rated material withstands UV exposure