

## NAC3FX-W-TOP-L

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

Keyed for Power IN, 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) for outdoor applications.





## Features & Benefits

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|---|--|
| <ul style="list-style-type: none"><li>• IEC EN 60320-1, UL 60320-1 and C22.2 No. 60320-1:19 certified, thus accepted as a component for cord sets acc. to IEC 60799 / UL817 and equipment acc. to IEC 62368-1</li></ul> | <ul style="list-style-type: none"><li>• Unique NEUTRIK locking bushing and strain relief for cable diameters 10 mm to 16 mm (0.39 – 0.63 inches)</li></ul> |
| <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>• IP65 rating and approved for outdoor protection</li></ul>  |
| <ul style="list-style-type: none"><li>• Uses high impact UV-resistant materials</li></ul>   | <ul style="list-style-type: none"><li>• Extremely robust and reliable cable retention</li></ul>  |
| <ul style="list-style-type: none"><li>• TOP True Outdoor Protection</li></ul>   | <ul style="list-style-type: none"><li>• Lockable, single phase connector with Circuit Breaking Capability (16A resp. 20 A 250 VAC)</li></ul>               |
| <ul style="list-style-type: none"><li>• Superior NEUTRIK quality standard</li></ul>   |  |

## Assembly

## Features powerCON® TRUE1® L

## Product related questions and answers

Question	Answer
How are the certifications different to the current version NAC3*X-W-TOP?	<p>EN certification:</p> <p>Both versions are certified according to EN 60320-1.</p> <p>The new L-version however is certified for large cables as follows:</p> <p>H07RN-F 3G 2,5 mm<sup>2</sup></p> <p>The old version is certified for cable types:</p> <p>H07RN-F 3G 1,5 mm<sup>2</sup> and H05VV-F 3G 1,0 - 2,5 mm<sup>2</sup></p> <p>UL certification:</p> <p>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.</p> <p>JET certification:</p> <p>Both versions are JET certified.</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	NAC3FX-W-TOP-L
Connector series	powerCON TRUE1 TOP

Electrical	
Dielectric 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 (mm <sup>2</sup> )	2.5 mm <sup>2</sup>
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