NAC3FXXB-W-S

IEC EN 60320-1 compliant | Accepted for cord sets as per IEC EN 60799:2021

Locking AC mains cable connector, keyed and color coded (grey) for power-out, screw terminal assembly, **for cable diameters 6 - 12 mm**.

The powerCON FXXA/FXXB is a single phase (3 conductor) lockable power connector with Circuit Breaking Capability when mated with powerCON XX Series receptacles.

It replaces appliance couplers wherever a very rugged solution in combination with a locking device is needed to guarantee a safe power connection.

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Features & Benefits

- IEC EN 60320-1 / UL 60320-1 / CSA C22.2 No. 60320-1 certified, thus accepted as a component for cord sets acc. to IEC 60799 / UL 817 and equipment acc. to IEC 62368-1
- Ergonomic design with slip-proof two-component molded housing
- Power-in (blue) and power-out (grey) versions with different keying to avoid the possibility of intermating
- Unique NEUTRIK locking bushing and strain relief for cable diameters 6 mm to 12 mm
- Easy to assemble because the strain relief locks with the insert mechanically and aligns with the housing
- Superior NEUTRIK quality standard, extremely robust and reliable
- Easy and reliable twist lock system
- Improved kink protection by two-component bushing

Assembly instruction video for powerCON FXXA/FXXB

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Cable list

Cable: IEC/EN 60320-1	3 x 1.5 mm²	3 x 2.5 mm²			
■ H07RN-F	-S	-L			
■ H05RN-F	-S	-			
■ H05VV-F	-S	-S			
Cable: UL 60320-1, CAN/CSA-C22.2 No. 60320-1			**16/3 AWG**	**14/3 AWG**	**12/3 AWG**
■ SOOW			-S	-L	-L
■ SJOOW			-S	-S	-L
■ SJTOOW			-S	-S	-S

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Technical Information

Product	
Title	NAC3FXXB-W-S
Connector series	powerCON blue/grey

Electrical	
Contact resistance	≤ 2 mΩ
Dielectric strength	> 3 kVac (after mating cycles)
Insulation resistance	> 10 GΩ (initially)
Number of electrical contacts	2 + PE
Rating Europe	EN 60320-1: 16 A 250 V AC, CBC
Rating USA / Canada	cUL 60320-1: 20 A 127 V AC, CBC

Mechanical	
Cable O.D.	6 - 12 mm
Lifetime	typically 5’000 mating cycles
Wiresize (mm^2)	1.5 – 2.5 mm^2
Wiresize (AWG)	16 – 12 AWG, see above cable list
Locking device	Twist lock
Termination	Screw type terminals

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Material

Contact plating	Ag
Contacts	Copper Alloy
Insert	Polyamide (PA6.6)
Locking element	Zinc diecast
Shell	Polyamide (PA6) / TPE
Strain relief	Polyketone
Bushing	Polypropylene / TPE

Environmental

Temperature range	-33 °C to + 80 °C
Protection class	IP20
Flammability acc. to UL94	V-0

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