



NAC3FXXA-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 (blue) for power-in, 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.



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 UL US 498 / UL CA 498
- ✓ 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

Cable list

Cable: IEC/EN 60320-1		3 x 1.5 mm ²	3 x 2.5 mm ²			
■ 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

Technical Information

Product	
Title	NAC3FXXA-W-S
Connector series	powerCON blue/grey

Electrical

Contact resistance	$\leq 2 \text{ m}\Omega$
Dielectric strength	$> 3 \text{ kVac}$ (after mating cycles)
Insulation resistance	$> 10 \text{ G}\Omega$ (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 UL USA 498: 20 A 250 V AC UL CA 498: 20 A 250 V AC

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
Locking device	Twist lock
Termination	Screw type terminals

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