



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.



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

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 | 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 |

| 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 |