



NAC3FXXA-W-S

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
- 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 kVac (after mating cycles) |
| Insulation resistance | > 10 G Ω (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 (mm²) | 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 |