



## 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 <sup>2</sup> | 3 x 2.5 mm <sup>2</sup> |          |
| ■ 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<br>UL USA 498: 20 A 127 V AC<br>UL CA 498: 20 A 127 V AC |

**Mechanical**

|                             |                               |
|-----------------------------|-------------------------------|
| Cable O.D.                  | 6 - 12 mm                     |
| Lifetime                    | Typically 5'000 mating cycles |
| Wiresize (mm <sup>2</sup> ) | 1.5 – 2.5 mm <sup>2</sup>     |
| 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              |