#### NEUTRIK



# NAC3FXXA-W-L

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 10 - 16 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 Ergonomic design with slip-proof two-C22.2 No. 60320-1 certified, thus component molded housing accepted as a component for cord sets acc. to IEC 60799 / UL 817 and equipment acc. to IEC 62368-1 Power-in (blue) and power-out (grey) Unique NEUTRIK locking bushing and • versions with different keying to avoid the strain relief for cable diameters 10 mm to 16 mm possibility of intermating Easy to assemble because the strain relief Superior NEUTRIK quality standard, • locks with the insert mechanically and extremely robust and reliable aligns with the housing 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 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/CS | SA-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-L       |
| Connector series | powerCON blue/grey |

| Electrical                    |                                 |
|-------------------------------|---------------------------------|
| Contact resistance            | ≤ <b>2</b> 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.     | 10 – 16 mm                    |  |
| Lifetime       | Typically 5'000 mating cycles |  |
| Wiresize (mm²) | 1.5 – 2.5 mm²                 |  |
| Wiresize (AWG) | 14 – 12 AWG                   |  |
| Locking device | Twist lock                    |  |
| Termination    | Screw type terminals          |  |



#### Material

| 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              |