



NAC3FC-HC

powerCON 32 A cable connector

The 32 A powerCON is an extremely robust and reliable locking single phase AC appliance cable connector for high current capacity (32 A rated). It is conceived as a non-standardized 3 pole connection system without breaking capacity to serve the needs of high power distribution systems and supplies for professional audio and lighting equipment and installations. The connectors comprise of contacts for phase, neutral and protective earth (ground) conductors rated for currents up to 32 A and for voltages up to 250V.

Features & Benefits

- 250 V ac, 32 A single-phase (for ambient temperatures up to 35°C)
- Fast and easy locking system to prevent unintentional disengagement
- Wiring with screw-type terminals for wires 2.5 to 6.0 mm² (AWG 14 - 10)
- Extremely robust and reliable
- IEC 62368-1 compliant up to 4000 W
- Premating contact for protective earth
- Cable O.D. Range: 8 - 20 mm
- Excellent cable handling and protection
- VDE, UL, cUL and JET approved

Technical Information

| Product | |
|------------------------|-----------|
| Title | NAC3FC-HC |
| Connection Type | powerCON |
| Gender | female |

| Electrical | |
|----------------------------------|----------------------------------|
| Contact resistance | $\leq 3 \text{ m}\Omega$ |
| Dielectric strength | 4 kVdc / 2.8 kVac |
| Insulation resistance | $> 10 \text{ G}\Omega$ (initial) |
| Rated current per contact | 32 A (30A for cUL) |
| Rating Europe | EN 61984: 32 A 250 V AC |
| Rating USA | UL 1977: 32 A 250 V AC |

| Mechanical | |
|-----------------------|-------------------------|
| Cable O.D. | 8 - 20 mm |
| Lifetime | > 1000 mating cycles |
| Wiresize | 2.5 - 6 mm ² |
| Wiresize | 14 - 10 AWG |
| Wiring | screw terminals |
| Locking device | Quick Lock |

| Material | |
|-----------------|----------------------------|
| Contact plating | 4 µm Ag |
| Contacts | Brass (CuZn39Pb3) |
| Insert | Polyamide (PA 6.6 25 % GR) |
| Locking element | Zinc diecast (ZnAl4Cu1) |
| Shell | Polyamide (PA 6 30 % GR) |
| Strain relief | Polyacetal (POM) |

| Environmental | |
|---------------------|---------------------------|
| Flammability | UL 94 V-0 |
| Protection class | IP 20 (mated) |
| Safety Requirements | EN/IEC 61984 |
| Solderability | Complies with IEC 68-2-20 |
| Temperature range | -25 °C to +70 °C |