

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

Technical Information

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Product	
Title	NAC3FC-HC
Connection Type	powerCON
Gender	female

Electrical	
Contact resistance	≤ 3 mΩ
Dielectric strength	4 kVdc / 2.8 kVac
Insulation resistance	> 10 GΩ (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 mm²
Wiresize	14 - 10 AWG
Wiring	screw terminals
Locking device	Quick Lock

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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

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