



NAC3M-TRUE1-S

The powerCON TRUE1 is a locking true mains connector for harsh and demanding applications. It replaces appliance couplers wherever a very rugged solution in combination with a locking device is needed in order to guarantee a safe power connection.

The powerCON TRUE1 is a connector series with breaking capacity (CBC), i.e. it can be connected or disconnected under load or live.





Features and Benefits

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|---|---|
| <ul style="list-style-type: none">• Heavy duty sealed power connector for harsh and demanding environment | <ul style="list-style-type: none">• Uses high impact UV-resistant materials |
| <ul style="list-style-type: none">• Lockable single phase connector | <ul style="list-style-type: none">• Extremely robust and reliable |
| <ul style="list-style-type: none">• ENEC and VDE certified according to IEC 60320-1 and EN IEC 60320-1 | <ul style="list-style-type: none">• UL and CSA Certified According to UL 60320-1 and CSA 22.2 No. 60320-1 |
| <ul style="list-style-type: none">• IP65 and IP67 (mated or with closed cap) | <ul style="list-style-type: none">• True mains connector with breaking capacity (CBC) |
| <ul style="list-style-type: none">• Easy and reliable twist lock system | <ul style="list-style-type: none">• Unique NEUTRIK locking bushing and strain relief for cable diameters 6 mm to 12 mm (0.23 – 0.47 inches) |

Product related questions and answers

| Question | Answer |
|--|--|
| What is the different between the -S and -L Version? | <p>Both versions are fully certified according to EN IEC 60320-1, UL 60320-1 and CSA 22.2 No. 60320-1.</p> <p>The S-version is certified other Cables then the L-version, cables as follows:</p> <p>S-Version: H05VV-F 3G1.5mm², H05VV-F 3G2.5mm², H07RN-F 3G 1.5 mm² and SJOOW 14/3 AWG.</p> <p>L-Version: H07RN-F 3G 2.5 mm², SOOW 16/3, SJOOW 16/3 and SJOOW 14/3</p> |
| When is the IEC 60799 relevant? | <p>This standard applies for "Cord Sets And Interconnection Cord Sets" and therefore covers cables to the mains and cables acting as power interconnections.</p> |
| Why is the bushing loose in one direction? | <p>This is to meet the standards requirement to prevent disassembling by hand. In order to open the cable entry a special tool will be required.</p> |

Technical Information

| Product | |
|----------------|-----------------|
| Title | NAC3M-TRUE1-S |
| Product family | powerCON® TRUE1 |

| Electrical | |
|-------------------------------|---|
| Contact resistance | $\leq 2 \text{ m}\Omega$ |
| Dielectric strength | 4 kVdc / 2.8 kVac |
| Insulation resistance | $> 1 \text{ G}\Omega$ (after damp and heat test IEC 68-2-30) |
| Number of electrical contacts | 2 + PE |
| Rating Europe | 16 A / 250 V AC according to EN IEC 60320-1 |
| Rating America | 20 A / 250 V AC according to UL 60320-1 20 A / 250 V AC according to CSA C22.2 No. 60320-1 |

| Mechanical | |
|-----------------------------|--------------------------------|
| Cable O.D. | 6 - 12 mm (0.23 – 0.47 inches) |
| Lifetime | > 5000 mating cycles |
| Wiresize (mm ²) | 1.5 - 2.5 mm ² |
| Wiresize (AWG) | 14 AWG |

| Material | |
|-----------------|-------------------|
| Contact plating | 2 µm Ag |
| Locking element | Polyamide (PA 66) |
| Contacts | Copper Alloy |
| Insert | Polyamide (PA 66) |
| Shell | Polyamide (PA 66) |
| Strain relief | Polyketon |

| Environmental | |
|-----------------------------|--|
| Flammability | UL 94 V-0 |
| Protection class | IP 65 / 67 (mated or with closed caps) |
| UV resistance | F1 rated material withstands UV exposure |
| Operating temperature range | -5°C to +40°C according to IEC 60320-1 |