


# NAC3F-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.









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## Features and Benefits

- Heavy duty sealed power connector for harsh and demanding environment
- Uses high impact UV-resistant materials
- Lockable single phase connector
- Extremely robust and reliable
- ENEC and VDE certified according to IEC 60320-1 and EN IEC 60320-1
- UL and CSA Certified According to UL 60320-1 and CSA 22.2 No. 60320-1
- UL Certified According to UL 498
- IP65 and IP67 (mated or with closed cap)
- True mains connector with breaking capacity (CBC)
- Easy and reliable twist lock system
- 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


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

# Technical Information

| Product | |
| --- | --- |
| Title | NAC3F-TRUE1-S |
| Product family | powerCON® TRUE1 |


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NEUTRIK

| Electrical | |
|---|---|
| Contact resistance | ≤ 2 mΩ |
| Dielectric strength | 4 kVdc / 2.8 kVac |
| Insulation resistance | >0.1GΩ (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<br>20 A / 250 V AC according to CSA C22.2 No. 60320-1<br>20A/ 250 V AC according to UL 498 |

| Mechanical | |
|---|---|
| Cable O.D. | 6 - 12 mm (0.23 – 0.47 inches) |
| Lifetime | > 5000 mating cycles |
| Wiresize (mm²) | 1.5 – 2.5mm² |
| 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 |


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| Environmental | |
|---|---|
| **Flammability** | UL 94 V-0 |
| **Protection class** | IP 65 / 67 (mated or with closed caps) |
| **UV resistance** | F1 rated material withstands UV exposure |
| **Temperature range** | -30°C to +80°C according to IEC 61984<br>-5°C to +40°C according to IEC 60320-1 |


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