TFFN

Copper Conductor

GENERAL INFORMATION

The TFFN conductor is built with a flexible cord insulated with PVC and covered with an external clear nylon jacket.

FEATURES

- These conductors are design to operate at 600 V max.
- The TFFN conductors are designed to operate at 90°C maximum temperature in dry and humid locations, and at 75°C maximum temperature in wet locations.
- The conductor is manufactured in 16 AWG (1,31 mm2) gauge, in multiple colors.
- The finish conductors comply with the RoHS (Restriction of Hazardous Substances) regulation.

CERTIFICATIONS AND DESIGN STANDARDS

Standards of design: ASTM B3, ASTM B174, ASTM B172, UL 66 and SAE J 1128
Certifications: UL E101779 and CIDET 02648

CABLE DESIGN

Conductor material	Copper
Core insulation material	Polyvinyl chloride (PVC)

ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U [V]	600

INSTALLATION DETAILS

Application	Building Installations;OEM;Indoor
Outdoor installation	No
Underground installation	No

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PHYSICAL & CHEMICAL PROPERTIES

Flame retardant	No
Oil resistant	No
Moisture resistance	Yes

SPECIFIC APPLICATIONS

- The conductors are designed for appliances, internal wiring and lighting internal wiring as well as feed up circuit lines.
- As indicated in the NEC NFPA70, article 402, the TF/TFN/TFF/TFFN the conductors can be used in low power circuit systems, they shall not be used in household branch circuits.

LEGEND ON THE CABLE

For all gauges, the legend to be printed is:

PRYSMIAN (R) PHELPS DODGE (R) TFFN (GAUGE) AWG ((GAUGE) mm²) 600V GAS & OIL RES. II OR AWM (UL) E101779

PRODUCT DIMENSIONS & CHARACTERISTICS

AWG size	Nominal cross section conductor [mm²]	Nominal thickness insulation [mm]	Nominal thickness outer sheath [mm]	Diameter conductor [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
16	1.31	0.38	0.1	3.05	15.96	14.1

The conductor operating amperage is defined by the installation conditions and operating temperatures identified in the NEC. See TABLE 402.5 NFPA 70 latest version. Note: The values given may vary according to the manufacturing tolerances.

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