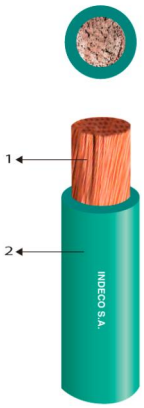
GPT-3 300 V

GPT-3 300 V 12 AWG FB, R100



Nexans Ref.: P00000998-7
Country Ref.: 10000651

CONTACT

Local Sales
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APPLICATION

Small size flexible copper conductor for wiring inside panel boards where space is limited. This is possible due to the quality of the PVC insulation, whose operating temperature is 75 ºC, and to its excellent dielectric properties that exceed the demanding electrical tests it is subject to.

STANDARDS

PRODUCT

UL-62; SAE J-1128

TEST

IEC 60332-1-2; UL 2556

CONSTRUCTION

1. Conductor: Flexible soft copper, class 5.

2. Insulation: Compound polyvinyl chloride PVC.

MAIN CHARACTERISTICS

Resistant to vibration, fuel, lubricants and battery electrolyte solution, resistant to abrasion and kinking. Flame retardant.

GAUGE

From 18 AWG up to 8 AWG.

MARKING

INDECO BY NEXANS GPT-3 - Gauge - 60227 IEC02 300 V MADE IN PERU

PACKING

In 100-meter standard coils.

COLOUR

See product list.

Conductor flexibility **Class 5 IEC 60228**

Lead free **Yes**

Ope. volt. **0.3 kV**

Rated Voltage Uo/U (Um) **300 V**

Cable flexibility **Very flexible**

Oil resistance **Good**

Maximum operating temperature **75 °C**

Flame retardant **IEC 60332-1-2; FT1**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

GPT-3 300 V

GPT-3 300 V 12 AWG FB, R100

PRODUCT STANDARDS

UL 62: Flexible cord and fixture wire.

SAE J-1128: Surface vehicle standard. Low-tension primary cable.

TESTING STANDARDS

IEC 60332-1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame.

UL 2556: Wire and Cable Test Methods. **Section 9.3:** FT1 (Vertical-Specimen) Flame Test.

CHARACTERISTICS

Construction characteristics	
Conductor material	Soft copper
Insulating material	PVC
Colour	Black
Conductor flexibility	Class 5 IEC 60228
Conductor shape	Circular
Lead free	Yes
Dimensional characteristics	
Conductor cross-section (AWG/KCMIL)	12 AWG
Conductor diameter	2.3 mm
Minimum insulation thickness	0.51 mm
Nominal outer diameter	3.4 mm
Approximate weight	35 kg/km
Number of cores	1
Total number of wires	61
Electrical characteristics	
Operating voltage	300 V
Operating voltage	0.3 kV
Dielectric strength	1.0 kV
Time of application Dielectric strength core to screen DC	1 min.
Max. DC resistance of the conductor at 20°C	5.69 Ohm/km
Nominal capacitance	1137.0 pF/m
Perm current rating in air 30°C	25 A
Rated Voltage Uo/U (Um)	300 V
Mechanical characteristics	
Cable flexibility	Very flexible
Usage characteristics	
Oil resistance	Good
Maximum operating temperature	75 °C
Overload maximum core temperature	90 °C
Short-circuit max. conductor temperature	130 °C
Midspan	Yes

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Usage characteristics	
Reference	04
Fire safety characteristics	
Flame retardant	IEC 60332-1-2; FT1

CALCULATION OF CURRENT CONDITION L.V.; 75 °C

CALCULATION OF CURRENT CONDITION

Maximum conductor temperature : 75°C.

Ambient air temperature : 30°C.

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