

## GPT-3 300 V

GPT-3 300 V 12 AWG FB, R100



Nexans Ref.: P00000999-7  
Country Ref.: 10000656

### CONTACT

Local Sales  
ventas.peru@nexans.com

### 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 °C, 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 U<sub>o</sub>/U  
(Um)  
300 V



Cable flexibility  
Very flexible



Flame retardant  
IEC 60332-1-2; FT1



Oil resistance  
Good



Maximum operating  
temperature  
75 °C

## 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	Red
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 U <sub>o</sub> /U (U <sub>m</sub> )	300 V

### Mechanical characteristics

Cable flexibility	Very flexible
-------------------	---------------

### Usage characteristics

Flame retardant	IEC 60332-1-2; FT1
Oil resistance	Good
Maximum operating temperature	75 °C
Overload maximum core temperature	90 °C
Short-circuit max. conductor temperature	130 °C

**Usage characteristics**

Midspan	No
Reference	04

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

**CALCULATION OF CURRENT CONDITION**

Maximum conductor temperature : 75°C.

Ambient air temperature : 30°C.