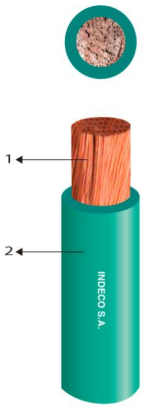
# GPT-3 300 V

**GPT-3 300 V 8 AWG FB, R100**




**Nexans Ref.:** P00010888-11
**Country Ref.:** 10000635

## 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 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**



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# GPT-3 300 V

**GPT-3 300 V 8 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) | 8 AWG |
| Conductor diameter | 3.9 mm |
| Minimum insulation thickness | 0.73 mm |
| Nominal outer diameter | 5.4 mm |
| Approximate weight | 89 kg/km |
| Number of cores | 1 |
| Total number of wires | 154 |
| **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 | 2.25 Ohm/km |
| Nominal capacitance | 1366.0 pF/m |
| Perm current rating in air 30°C | 50 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 | 06 |
| **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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