

PLASTHERM® 90 °C

Polyolefin insulation

UL and cUL approval



Characteristics

General

- Continuous operating temperatures: -20 °C to +90 °C.
- Good resistance to chemical influences.

Electrical

- Rated voltage: 600 V.
- Test voltage: 6,000 V.

Standard products

- All colours including two-coloured.
- Stranding of conducting cores: contact us.

Approvals - standards

- UL approval as per standard UL758 and cUL approval (CSA) as per standard C22.2 No. 210, File no. E101 965.
- "Horizontal flame test" as per UL758 standard.

Applications

- Internal cabling for electrical appliances.

Options

- Other nominal cross-sections: contact us.

KEY

- conducting metals
- B** Tin-plated copper
- B*** Tin-plated copper (ø > 0.38 mm)
- C** Nickel-plated copper
- D** Silver-plated copper
- E** Nickel
- F** Bare copper
- F*** Bare copper (ø > 0.38 mm)
- G** Nickel-plated copper 27 %

- AWM I A Internal wiring, not subject to mechanical abuse
- AWM I A/B Internal wiring
- AWM II A/B External or Internal wiring

- NS Not Specified
- VNS Voltage Not Specified

■ : UL approved nominal cross-sections only.

* The diameter is provided for information purposes as it may vary depending on the stranding of the core.
Only the average thickness of insulation should be taken into account.



- 1 • Bare or tin-plated copper core.
- 2 • Insulation: polyolefin.

Style no. **10900**

Approval

90 °C – 600 V
AWM I A/B

| AWG | Nominal cross-section (mm ²) | Average thickness of insulation (mm) | Nominal diameter* (mm) |
|-----|--|--------------------------------------|------------------------|
| 30 | 0.05 | 0.38 | 1.1 |
| 28 | 0.09 | 0.38 | 1.1 |
| 26 | 0.13 | 0.38 | 1.2 |
| 24 | 0.22 | 0.38 | 1.4 |
| 22 | 0.34 | 0.38 | 1.5 |
| - | 0.5 | 0.38 | 1.7 |
| 20 | 0.6 | 0.38 | 1.75 |
| - | 0.75 | 0.38 | 1.9 |
| 18 | 0.93 | 0.38 | 2.0 |
| - | 1 | 0.76 | 2.9 |
| 16 | 1.34 | 0.76 | 3.0 |
| - | 1.5 | 0.76 | 3.1 |
| 14 | - | 0.76 | 3.4 |
| - | 2.5 | 0.76 | 3.6 |
| 12 | - | 0.76 | 3.9 |
| - | 4 | 0.76 | 4.2 |
| 10 | - | 0.76 | 4.5 |
| - | 6 | 0.76 | 4.7 |
| 8 | - | 0.76 | 5.5 |
| - | 10 | 0.76 | 6.1 |
| 6 | - | 0.76 | 6.9 |
| - | 16 | 0.76 | 7.2 |
| 4 | - | 0.76 | 8.1 |
| - | 25 | 0.76 | 8.6 |
| 2 | 35 | 0.76 | 9.7 |
| 1 | - | 1.52 | 12.4 |
| - | 50 | 1.52 | 12.8 |
| 1/0 | - | 1.52 | 13.5 |
| 2/0 | 70 | 1.52 | 14.6 |
| 3/0 | - | 1.52 | 16.2 |
| - | 95 | 1.52 | 16.3 |
| 4/0 | - | 1.52 | 18.1 |

Conducting metal **BF**

For this product, please contact:

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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.
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