

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

VARPREN INSULATED WIRES AND CABLES

VARPREN® 125 UL

Class B lead wires

UL and cUL approval



Approvals - standards

- UL approval as per standard UL 758-File no.: E101965.
 - cUL approval (CSA) as per standard C22.2 No. 210-File no.: E101965.
 - "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Class B cabling for electric motors.
 - Lights.
- Industrial cabling in hot atmospheres up to +125 °C.

Options

- Nickel-plated copper core: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other style nos. available: style 1505.
 - Other options: contact us.



- 1 • Flexible bare copper or tin-plated core.
- 2 • Insulation: Varpren®.

Characteristics

General

- Continuous operating temperatures: -30 °C to +125 °C.
- Good resistance to common chemical influences and impregnating varnishes.

Electrical

- Rated voltage: as per style no.
- Test voltage: 10 x Rated voltage.

Standard products

- Standard insulation colours: white, black, blue, brown, red or yellow/green.

| | | Style no. | 3266 | | 3173 | | 3271 | |
|-----------------------|--------------------|------------|----------------------------------|------------------------|----------------------------------|------------------------|----------------------------------|------------------------|
| | | Approval | 125 °C - 300 V | | 125 °C - 600 V | | 125 °C - 600 V | |
| Nominal cross-section | Nominal stranding | | Avg thickness of insulation (mm) | Nominal diameter* (mm) | Avg thickness of insulation (mm) | Nominal diameter* (mm) | Avg thickness of insulation (mm) | Nominal diameter* (mm) |
| AWG | (mm ²) | | | | | | | |
| 24 | 0.22 | 7 x 0.20 | 0.38 | 1.45 | 0.76 | 2.3 | 0.76 | 2.3 |
| - | 0.25 | 8 x 0.20 | 0.38 | 1.5 | 0.76 | 2.3 | 0.76 | 2.3 |
| 22 | 0.34 | 19 x 0.15 | 0.38 | 1.6 | 0.76 | 2.35 | 0.76 | 2.35 |
| - | 0.5 | 19 x 0.18 | 0.38 | 1.7 | 0.76 | 2.5 | 0.76 | 2.5 |
| 20 | 0.6 | 19 x 0.20 | 0.38 | 1.75 | 0.76 | 2.6 | 0.76 | 2.6 |
| - | 0.75 | 24 x 0.20 | 0.38 | 1.9 | 0.76 | 2.7 | 0.76 | 2.7 |
| 18 | 0.93 | 19 x 0.25 | 0.38 | 2.05 | 0.76 | 2.8 | 0.76 | 2.8 |
| - | 1 | 32 x 0.20 | 0.38 | 2.15 | 0.76 | 2.9 | 0.76 | 2.9 |
| 16 | 1.34 | 19 x 0.30 | 0.38 | 2.35 | 0.76 | 3.1 | 0.76 | 3.1 |
| - | 1.5 | 30 x 0.25 | 0.38 | 2.45 | 0.76 | 3.15 | 0.76 | 3.15 |
| 14 | - | 19 x 0.37 | 0.38 | 2.7 | 0.76 | 3.4 | 0.76 | 3.4 |
| - | 2.5 | 50 x 0.25 | 0.38 | 2.85 | 0.76 | 3.6 | 0.76 | 3.6 |
| 12 | - | 37 x 0.34 | 0.38 | 3.2 | 0.76 | 4.0 | 0.76 | 4.0 |
| - | 4 | 52 x 0.30 | 0.38 | 3.3 | 0.76 | 4.1 | 0.76 | 4.1 |
| 10 | - | 37 x 0.43 | 0.38 | 3.9 | 0.76 | 4.7 | 0.76 | 4.7 |
| - | 6 | 84 x 0.30 | - | - | 0.76 | 4.8 | 0.76 | 4.8 |
| 8 | - | 70 x 0.40 | - | - | - | - | 1.14 | 6.3 |
| - | 10 | 77 x 0.40 | - | - | - | - | 1.14 | 7.0 |
| 6 | - | 105 x 0.40 | - | - | - | - | 1.14 | 7.8 |
| - | 16 | 119 x 0.40 | - | - | - | - | 1.14 | 8.4 |
| 4 | - | 168 x 0.40 | - | - | - | - | 1.14 | 9.2 |
| - | 25 | 196 x 0.40 | - | - | - | - | 1.14 | 10.0 |
| 2 | 35 | 259 x 0.40 | - | - | - | - | 1.14 | 11.3 |
| 1 | - | 342 x 0.40 | - | - | - | - | 1.40 | 12.4 |
| - | 50 | 370 x 0.40 | - | - | - | - | 1.40 | 12.9 |
| 1/0 | - | 425 x 0.40 | - | - | - | - | 1.40 | 13.6 |
| 2/0 | 70 | 340 x 0.50 | - | - | - | - | 1.40 | 14.8 |
| 3/0 | - | 434 x 0.50 | - | - | - | - | 1.40 | 16.3 |
| - | 95 | 475 x 0.50 | - | - | - | - | 1.40 | 17.1 |
| 4/0 | - | 546 x 0.50 | - | - | - | - | 1.40 | 18.0 |

Conducting metal

BCDEFG

BCDEFG

BCDEFG

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.

For this product, please contact:

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* 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.

www.omerin.com

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