

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® 155

-50 °C to +155 °C

Approvals - standards

- Halogen-free: EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
 - Flame retardant: EN 60332-1-2 / NF C 32-070 test C2.
- Test for vertical flame propagation of vertically-mounted bunched wires or cables – Category A: IEC 60332-3-22.
 - Low corrosivity of gas emissions: EN 60754-2.
- Low smoke density: EN 61034-2.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics General

- Continuous operating temperature: -50 °C to +155 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

- Rated voltage: CS ≤ 0.5 mm²: 450/750 V.
CS > 0.5 mm²: 600/1000 V.
- Test voltage: CS ≤ 0.5 mm²: 2500 V.
CS > 0.5 mm²: 3500 V.

Standard products

- Standard insulation colour: black.



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.

VARPREN® 155

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.34*	19 x 0.16	60.6
0.5	19 x 0.18	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	123 x 0.40	1.24
25	189 x 0.40	0.795
35	266 x 0.40	0.565
50	377 x 0.40	0.393
70	340 x 0.50	0.277
95	444 x 0.50	0.210
120	568 x 0.50	0.164
150	721 x 0.50	0.132
185	888 x 0.50	0.108
240	1184 x 0.50	0.0817

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.4	1.6	5.8
0.4	1.7	7.0
0.5	2.2	10.6
0.6	2.5	13.8
0.6	2.8	18.8
0.7	3.4	29.5
0.7	4.0	44.1
0.8	4.7	63.5
0.8	6.1	112
0.8	7.3	164
0.9	8.9	254
0.9	10.2	342
1.1	12.0	484
1.2	14.2	668
1.3	16.0	865
1.4	18.0	1120
1.6	20.6	1379
1.7	22.5	1766
1.8	25.4	2316

For this product, please contact:

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* Nominal cross-section not described in IEC 60228.

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LES CABLES DE L'EXTREME

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force. 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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