

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® Style 3781-HAR UL, cUL, USE <HAR> approval -30 °C to +105 °C



Approvals - standards

- USE <HAR> approval as per standard HD 22.7.
- UL approval as per standard UL 758 - File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 - File no.: E101965.
- Halogen-free as per EN 60754-1.
- Low toxicity as per EN 60754-2.

Applications

- Internal cabling for electrical appliances.

Options

- Flexible bare copper core: contact us.
- Other colours: contact us.

Characteristics

General

- Continuous operating temperatures: -30 °C to +105 °C.
- Good resistance to common chemical influences and impregnating varnishes.
- Bending radius: 5 x D.

Electrical

- Rated voltage as per <HAR>:
> H05G-K: 300/500 V.
> H07G-K: 450/750 V.
- Rated voltage as per UL and cUL: 1000 V.
- Test voltage: 3000 V.

Standard products

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



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

Style 3781-HAR / H05G-K

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	16 x 0.20	40.1
0.75	24 x 0.20	26.7
1.0	32 x 0.20	20.0

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	9
0.6	2.3	11
0.6	2.5	14

Style 3781-HAR / H07G-K

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	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393

0.8	3.2	22
0.9	3.8	33
1.0	4.6	50
1.0	5.4	70
1.2	6.8	120
1.2	8.0	174
1.4	9.8	275
1.5	11.3	366
1.6	13.1	509

For this product, please contact:

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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.