

# VARPREN® H05GG-F

USE <HAR> Approval

-15 °C to +110 °C

<HAR>



## Approvals - standards

- USE <HAR> approval: NF EN 50525-2-21.
- Halogen-free: IEC 60754-1 / EN 60754-1.
  - Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
  - Low smoke density: IEC 61034-2 / EN 61034-2.

## Applications

- Class F cabling for electric motors.

## 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.

- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228 / EN 60228.
- 2 • Insulation: Varpren® - type EI3 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.
- 3 • Outer sheath: Varpren® - type EM4 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-2-1.

## Characteristics

### General

- Continuous operating temperatures: -15 °C to +110 °C.
- Excellent tearing strength.
- Minimum bending radius: 10 x D.

### Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-21).

## Standard products

- Standard conductor colours: as per HD 308 (see table below).
- Standard outer sheath colour: black.

### Standard conductor colours (as per HD 308):

Number of conductors	With an earth wire	Without an earth wire
2	-	blue - brown
3	yellow/green - blue - brown	brown - black - grey
4	yellow/green - brown - black - grey	blue - brown - black - grey
5	yellow/green - blue - brown - black - grey	blue - brown - black - grey - black

#### • Identification

Multi-conductor cables without an earth wire are identified as follows:

< Number of conductors > X < Cross-section > mm<sup>2</sup> (example: 3 X 1.5 mm<sup>2</sup>).

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm<sup>2</sup>).

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

[www.omerin.com](http://www.omerin.com)

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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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## Flexible core • class 5 as per IEC 60228

## INSULATED CONDUCTORS

## SHEATHED CABLE

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
					min.	max.	
2 x 0.75	24 x 0.20	26.7	0.6	2.4	5.7	7.4	52.2
3 x 0.75	24 x 0.20	26.7	0.6	2.4	6.2	8.1	66.0
4 x 0.75	24 x 0.20	26.7	0.6	2.4	6.8	8.8	78.3
5 x 0.75	24 x 0.20	26.7	0.6	2.4	7.6	9.9	95.7
2 x 1	32 x 0.20	20.0	0.6	2.5	6.1	8.0	60.9
3 x 1	32 x 0.20	20.0	0.6	2.5	6.5	8.5	73.8
4 x 1	32 x 0.20	20.0	0.6	2.5	7.1	9.3	88.3
5 x 1	32 x 0.20	20.0	0.6	2.5	8.0	10.3	109
2 x 1.5	30 x 0.25	13.7	0.8	3.3	7.6	9.8	95.0
3 x 1.5	30 x 0.25	13.7	0.8	3.3	8.0	10.4	114
4 x 1.5	30 x 0.25	13.7	0.8	3.3	9.0	11.6	144
5 x 1.5	30 x 0.25	13.7	0.8	3.3	9.8	12.7	168
2 x 2.5	50 x 0.25	8.21	0.9	3.9	9.0	11.6	135
3 x 2.5	50 x 0.25	8.21	0.9	3.9	9.6	12.4	162
4 x 2.5	50 x 0.25	8.21	0.9	3.9	10.7	13.8	204
5 x 2.5	50 x 0.25	8.21	0.9	3.9	11.9	15.3	246
3 x 4	56 x 0.30	5.09	1.0	4.6	11.3	14.5	236
4 x 4	56 x 0.30	5.09	1.0	4.6	12.7	16.2	296
3 x 6	84 x 0.30	3.39	1.0	5.2	12.8	16.3	321
4 x 6	84 x 0.30	3.39	1.0	5.2	14.2	18.1	400

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omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

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