

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

VARPREN INSULATED WIRES AND CABLES

# VARPREN® 105 UL

## 105°C 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

- Internal cabling for electrical appliances.
  - Lights.
- Industrial cabling in hot atmospheres up to +105 °C.

#### Options

- <HAR> approval = Ref. Style 3781-HAR: contact us.
  - Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other style nos. available: style 1381.
  - Other options: contact us.



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

#### Characteristics

##### General

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

##### Electrical

- Rated voltage: 1000 V.
- Test voltage: 10 x Rated voltage.

#### Standard products

- Standard insulation: all solid colours.

Style no.

3781

Approval

105 °C - 1000 V

Nominal cross-section		Nominal stranding	Avg thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm <sup>2</sup> )			
24	0.22	7 x 0.20	0.48	1.6
22	0.34	7 x 0.25	0.48	1.8
-	0.5	24 x 0.20	0.48	2.0
20	0.6	19 x 0.20	0.48	2.1
-	0.75	24 x 0.20	0.48	2.2
18	0.93	19 x 0.25	0.48	2.3
-	1	32 x 0.20	0.48	2.4
16	1.34	19 x 0.30	0.48	2.5
-	1.5	30 x 0.25	0.48	2.65
14	-	19 x 0.37	0.48	2.9
-	2.5	50 x 0.25	0.48	3.05
12	-	37 x 0.34	0.48	3.4
-	4	56 x 0.30	0.48	3.6
10	-	37 x 0.43	0.48	4.2
-	6	84 x 0.30	0.76	5.0
8	-	70 x 0.40	0.76	5.6
-	10	77 x 0.40	1.14	6.5
6	-	105 x 0.40	1.14	7.5
-	16	119 x 0.40	1.14	7.8
4	-	168 x 0.40	1.14	9.2
-	25	196 x 0.40	1.14	9.6
2	35	259 x 0.40	1.14	11.1
1	-	342 x 0.40	1.52	12.6
-	50	370 x 0.40	1.52	12.9
1/0	-	425 x 0.40	1.52	13.7

Conducting metal

BF

#### 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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