

# PLASTHERM® 80 °C

PVC insulation  
PVC sheathing  
UL and cUL approval



- 1 • UL and cUL approved conductors with PVC insulation.
- 2 • Outer sheath: PVC.

### Characteristics

#### General

- Continuous operating temperatures: -30 °C to +80 °C.
- Good resistance to common chemical environments.

#### Electrical

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

#### Standard products

- Single conductors: UL and cUL approved PVC insulated conductors (≥ 80 °C).
- Standard outer sheath colours: black or grey.
- Stranding of conducting cores: contact us.

#### 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.
- "Cable flame test" as per UL approval.
- "FT1 flame rating" as per cUL approval.

#### Applications

- External or internal cabling for electrical appliances.

#### Options

- Electrical shielding: Tin-plated copper braid, or aluminium tape + continuity wire.
- Other outer sheath colours: contact us.
- Other nominal cross-sections: contact us.
- Other style nos. available: styles no. 20871, 21061, 21047, 2610, 2655, 2656, 20212, 20295, 2463, 20207, 21058.

#### 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 or the sheathing should be taken into account.

For this product, please contact:

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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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Style no.	2464-Y80		2570-Y80			
	Approval		Approval			
	80 °C - 300 V		80 °C - 600 or 1000 V			
	AWM II A/B		AWM II A/B			
No. of cond.	AWG	Nominal cross-section (mm <sup>2</sup> )	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)
2	26	0.13	1.25	4.0	2.1	5.7
3	26	0.13	1.25	4.2	2.1	6.1
4	26	0.13	1.25	4.5	2.1	6.6
5	26	0.13	1.25	4.9	2.1	7.2
7	26	0.13	1.25	5.3	2.1	7.8
2	24	0.22	1.4	4.3	2.2	5.9
3	24	0.22	1.4	4.5	2.2	6.3
4	24	0.22	1.4	4.9	2.2	6.8
5	24	0.22	1.4	5.3	2.2	7.5
7	24	0.22	1.4	5.7	2.2	8.1
2	22	0.34	1.5	4.5	2.3	6.1
3	22	0.34	1.5	4.8	2.3	6.5
4	22	0.34	1.5	5.1	2.3	7.1
5	22	0.34	1.5	5.6	2.3	7.7
7	22	0.34	1.5	6.0	2.3	8.4
2	-	0.5	1.75	5.0	2.45	6.4
3	-	0.5	1.75	5.3	2.45	6.8
4	-	0.5	1.75	5.7	2.45	7.4
5	-	0.5	1.75	6.2	2.45	8.1
7	-	0.5	1.75	6.8	2.45	8.9
2	20	0.6	1.75	5.0	2.6	6.7
3	20	0.6	1.75	5.3	2.6	7.1
4	20	0.6	1.75	5.7	2.6	7.8
5	20	0.6	1.75	6.2	2.6	8.5
7	20	0.6	1.75	6.8	2.6	9.3
2	-	0.75	1.9	5.3	2.65	6.8
3	-	0.75	1.9	5.6	2.65	7.2
4	-	0.75	1.9	6.1	2.65	7.9
5	-	0.75	1.9	6.7	2.65	8.7
7	-	0.75	1.9	7.2	2.65	9.5
2	18	0.93	2.0	5.5	2.8	7.1
3	18	0.93	2.0	5.8	2.8	7.6
4	18	0.93	2.0	6.3	2.8	8.3
5	18	0.93	2.0	6.9	2.8	9.1
7	18	0.93	2.0	7.5	2.8	9.9
2	-	1	2.1	5.7	2.8	7.1
3	-	1	2.1	6.1	2.8	7.6
4	-	1	2.1	6.6	2.8	8.3
5	-	1	2.1	7.2	2.8	9.1
7	-	1	2.1	7.8	2.8	9.9
2	16	1.34	2.3	6.1	3.0	7.5
3	16	1.34	2.3	6.5	3.0	8.0
4	16	1.34	2.3	7.1	3.0	8.8
5	16	1.34	2.3	7.7	3.0	9.6
7	16	1.34	2.3	8.4	3.0	10.5
2	-	1.5	2.4	6.3	3.1	7.7
3	-	1.5	2.4	6.7	3.1	8.2
4	-	1.5	2.4	7.3	3.1	9.0
5	-	1.5	2.4	8.0	3.1	9.9
7	-	1.5	2.4	8.7	3.1	10.8
2	14	-	2.7	6.9	3.45	8.4
3	14	-	2.7	7.4	3.45	9.0
4	14	-	2.7	8.0	3.45	9.8
5	14	-	2.7	8.8	3.45	10.8
7	14	-	2.7	9.6	3.45	11.9

Conducting metal

BCDEFG

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