

PLASTHERM® Y2 and EY2**-30 °C to +105 °C**

- 1 • Flexible bare (ref. Y2) or tin-plated (ref. EY2) copper core.
- 2 • Insulation: PVC 105 °C.

Applications

- Cabling in an environment potentially reaching +105°C (electrical appliances, light fittings, electronics, motor cars, etc.).

Options

- Solid bare (ref. RY2) or tin-plated (ref. REY2) copper core: see details of the option below.
- Extra-flexible bare (ref. Y2-ES) or tin-plated (ref. EY2-ES) copper core: see details of the option below.
- Silver-plated (ref. AY2) or nickel-plated (ref. CNY2) copper core: contact us.
 - Outer electrical shielding:
 - > Tin-plated copper braid: ref. Y2BE or EY2BE.
 - Insulation made of PVC 80°C: contact us.
 - Insulation made of PVC 125°C: contact us.
- Other nominal metric or American cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options and/or combinations of the options outlined above: contact us.

Characteristics**General**

- Continuous operating temperatures: -30 °C to +105 °C.
- Good resistance to thermal shock.
- Good mechanical strength.
- Good resistance to common chemical environments.

Electrical

- Rated voltage: CS < 0.5 mm²: 300/500 V.
0.5 mm² ≤ CS < 1.5 mm²: 450/750 V.
CS ≥ 1.5 mm²: 600/1000 V.
- Test voltage: CS < 0.5 mm²: 1500 V.
0.5 mm² ≤ CS < 1.5 mm²: 2500 V.
CS ≥ 1.5 mm²: 3000 V.

Standard products

- Standard insulation colours: all colours including yellow/green.

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
LES CABLES DE L'EXTREME

www.omerin.com

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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Y2 and EY2

Flexible core

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (Tin-plated copper core)
0.12	7 x 0.15*	161
0.14	7 x 0.16**	142
0.22	7 x 0.20	92.5
0.34	7 x 0.25	59.2
0.34	19 x 0.15*	58.9
0.38	19 x 0.16**	55.7
0.5	7 x 0.30	40.7
0.5	16 x 0.20	40.1
0.6	19 x 0.20	33.7
0.75	24 x 0.20	26.7
0.93	19 x 0.25	21.6
1	32 x 0.20	20.0
1.34	19 x 0.30	15.0
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	77 x 0.40	1.95
16	119 x 0.40	1.24

Option • RY2 and REY2

Solid core

0.22	1 x 0.52	85.9
0.34	1 x 0.64	54.1
0.5	1 x 0.80	36.7
0.75	1 x 0.98	24.8
1	1 x 1.13	18.2
1.5	1 x 1.38	12.2
2.5	1 x 1.77	7.56
4	1 x 2.24*	4.70
6	1 x 2.74*	3.11

Option • Y2-ES and EY2-ES

Extra-flexible core

0.05	24 x 0.05	405
0.14	70 x 0.05	159
0.25	130 x 0.05 or 60 x 0.07	86.6
0.34	180 x 0.05 or 90 x 0.07 or 40 x 0.10	59.9
0.4	200 x 0.05 or 100 x 0.07 or 50 x 0.10	50.7
0.5	260 x 0.05 or 130 x 0.07 or 60 x 0.10	40.7
0.75	390 x 0.05 or 200 x 0.07 or 100 x 0.10	27.1
1	520 x 0.05 or 260 x 0.07 or 120 x 0.10	20.4
1.5	750 x 0.05 or 390 x 0.07 or 190 x 0.10	13.7

* Nominal stranding only available in bare copper version.

** Nominal stranding only available in tin-plated copper version.

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.3	1.1	2.2
0.3	1.1	2.3
0.3	1.2	3.2
0.3	1.3	4.3
0.3	1.3	4.3
0.3	1.4	4.9
0.6	2.1	8.4
0.6	2.1	8.4
0.6	2.2	9.6
0.6	2.3	11.2
0.6	2.4	13.0
0.6	2.5	14.0
0.6	2.7	17.6
0.7	3.0	20.3
0.8	3.6	31.7
0.8	4.3	48.5
0.8	4.8	67.6
1.0	6.4	111
1.2	7.8	169

INSULATED WIRE

0.4	1.3	3.5
0.45	1.5	4.9
0.5	1.8	7.4
0.55	2.1	10.6
0.6	2.3	13.4
0.6	2.6	18.8
0.7	3.2	29.9
0.7	3.6	44.1
0.8	4.1	63.2

INSULATED WIRE

0.2	0.7	0.9
0.3	1.1	2.3
0.3	1.2	3.4
0.4	1.6	5.2
0.45	1.8	6.2
0.45	1.9	7.4
0.5	2.2	10.5
0.55	2.5	13.8
0.55	2.8	18.7

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