

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET

SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS





- The world's leading manufacturer of silicone-insulated wires and cables
- Europe's leading manufacturer of glass-yarn braids
- France's leading manufacturer of fire safety cables

The Omerin group has been producing electrical cables for extreme conditions since 1959



At Omerin, we use our know-how and technology to develop increasingly high-performance products.

Our expertise is recognized in over 120 countries.



Omerin offers a wide range of high-performance products covering a large number of applications in very diverse industries, including the electrothermal construction, electromechanical, chemical, nuclear energy, railway, automotive, naval, aerospace, heavy industry, power plant and other sectors.

Our product range is further extended by varnished, impregnated and treated braided insulating sleevings, door seals for ovens, fireproof sleevings, thermocouple, extension and compensation cables as well as industrial braids.

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The technical expertise of our teams is at your disposal, providing responses and solutions to all your requirements.

Our Methods, Quality and Research and Development Departments work permanently together with the aim of constantly improving our products and processes.

All our staff subscribe to this approach with their involvement and constant self-checking at all stages of production.

List of all the available catalogues:

- HIGH TEMPERATURE WIRES AND CABLES
 FOR THE GENERAL MARKET
 SECTION I: CROSS LINKED ELASTOMERS
- HIGH TEMPERATURE WIRES AND CABLES
 FOR THE GENERAL MARKET
 SECTION II: FLUOROPOLYMERS
 AND THERMOPLASTICS
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 FOR THE GENERAL MARKET
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 - MARINE CABLES
 - PYROMETRY CABLES (8)
 - BRAIDED INSULATING SLEEVINGS 🧿
 - HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES
 - CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

PACKAGING AND TECHNICAL DATA

Ultimately, this catalogue is the result of the passionate endeavours of an entire team, who have displayed great talent in writing it for you.

It is designed to be a simple and concise working tool for you, serving as a reference document that is able to meet the majority of your needs.

This catalogue, as well as ten others from our collection are available on line with real time updates and much more information at

www.omerin.com

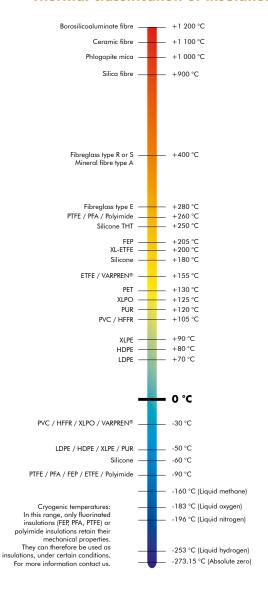
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CERAFIL®	Miniature ceramic insulated wires for very high temperatures
COAXRAIL®	Coaxial cables for railway industry
COAXTHERM®	High temperature coaxial cables
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SILIFLAM®	Very high safety cables for extreme temperatures
SILIFLON®	Fluoropolymer insulated high temperature wires and cables
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SILIRAD®	Electron beam cross-linked cables
SILITUBE®	Braided or extruded tubes
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SONDIX®	Platinum resistance temperature sensors connection cables
SPIRFLEX®	High performance spiral cables
TEXALARM®	Cables for safety systems and fire alarms
TS CABLES®	Coaxial and data cables
TS COM 900 [®]	Telephonic cables for very speed reception
TS LAN®	Copper LAN cables
TWINLINK®	High temperature controlled impedance twisted pair cables
TWINPLAST®	Extra flexible cables for battery chargers or jump starters
VARPREN®	Wires and cables with special cross-linked Varpren® insulation
VEROX®	Fiberglass braided seals

VIDEOCOAX® Analog and digital video cables



Thermal classification of insulations





















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FLUOROPOLYMER INSULATED WIRES AND CABLES

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® ETFE and EETFE

-90 °C to +155 °C



1 • Bare (ref. ETFE) or tin-plated (ref. EETFE) copper core.

2 • Insulation: Fluorinated polymer ETFE.

Approvals - standards

• Series inspired by standards NF C 93-524

Applications

- Cabling for rotating machines (class F). Cabling in household electrical appliances, electronics. Cabling in hot or cold environments (cryogenics).
 - · Cabling in aggressive environments (humidity, chemicals, etc.).
 - Cabling requiring compact size and excellent mechanical strength.

Options

- Nickel-plated copper core: ref. CNETFE. Silver-plated copper core: ref. AETFE.
 - Pure nickel core: ref. NETFE.
- Outer electrical shielding: > Tin-plated copper braid: ref. ETFEBE or EETFEBE.
- 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

- \bullet Continuous operating temperatures: -90 °C to +155 °C.
- Excellent resistance to aggressive chemical environments.
- · Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

• Rated voltage: 450/750 V. • Test voltage: 2500 V.

Standard products

All colours including translucent.

ETFE and **EETFE**

CONDUCTING CORE			INSULATI	D WIRE	OR CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km) (bare copper core)	(mm)	(mm)	(kg/km)
0.05	7 x 0.10	373	0.17	0.65	0.9
0.09	7 x 0.13	214	0.17	0.7	1.3
0.12*	7 x 0.15	161	0.17	0.8	1.7
0.14**	7 x 0.16	141	0.17	0.8	1.8
0.15	19 x 0.10	136	0.20	0.9	2.1
0.22	7 x 0.20	89.9	0.20	1.0	2.7
0.25	19 x 0.13	0.08	0.20	1.05	3.2
0.34	7 x 0.25	57.5	0.20	1.15	4.0
0.38**	19 x 0.16	54.1	0.20	1.15	4.4
0.5	7 x 0.30	39.6	0.20	1.3	5.6
0.5	16 x 0.20	39.0	0.20	1.3	5.9
0.6	19 x 0.20	32.8	0.20	1.4	6.4
0.75	24 x 0.20	26.0	0.20	1.45	8.5
0.88	7 x 0.40	22.2	0.20	1.5	9.0
0.93	19 x 0.25	21.0	0.20	1.7	10.0
1	32 x 0.20	19.5	0.20	1.7	11.4
1.34	19 x 0.30	14.6	0.20	1.9	13.9
1.5	30 x 0.25	13.3	0.20	1.95	15.6
2.5	50 x 0.25	7.98	0.20	2.5	25.6
4	56 x 0.30	4.95	0.25	3.1	38.9
6	84 x 0.30	3.30	0.35	3.9	55.6
10	80 x 0.40	1.91	0.40	5.2	101
16	126 x 0.40	1.21	0.40	6.5	147
25	196 x 0.40	0.780	0.60	8.2	242
35	276 x 0.40	0.554	0.60	9.2	320
50	396 x 0.40	0.386	0.70	11.2	465

For this product, please contact:

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** Nominal cross-sections not available with the ref. ETFE

^{**} Nominal cross-section not available with the ref. EETFE.

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KU 01 and KU 02 -55 °C to +150 °C

KU 01 KU 02 4 3

- 1 Concentric tin-plated copper core
- Insulation: Fluorinated polymer ETFE.
 Electrical shielding: Tin-plated copper braid.
 Outer sheath: Fluorinated polymer ETFE.

Approvals - standards

• Inspired from NF C 93-524 standard.

Applications

• Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

• Compliance with American standards SAE AS 22756/16 and SAE AS 22759/18: contact us

• Other colours: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +150 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical (as per UTE C 93-524)

• Rated voltage: 600 Vac - 850 Vdc. Test voltage: KU 01: 3400 Vac.

KU 02: 1500 Vac.

Standard products

- Standard insulation colour: white.
- Standard outer sheath colour: white.

KU 01 and KU 02

		CONCENTRIC COR	E
	minal -section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
30	0.05	7 x 0.10	365.4
28	0.09	7 x 0.13	208.0
26	0.15	19 x 0.10	128.7
24	0.25	19 x 0.13	76.6
22	0.38	19 x 0.16	50.3
20	0.60	19 x 0.20	32.1
18	0.93	19 x 0.25	20.6
16	1.34	19 x 0.30	14.3
14	1.82	37 x 0.25	10.6
12	3.00	37 x 0.32	6.5

INSULATED WIRE						
KU	J 01	KU	02			
Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)			
0.63	0.9	1.33	4.7			
0.69	1.3	1.39	5.0			
0.81	1.9	1.51	5.8			
0.91	2.8	1.71	7.2			
1.10	4.2	1.96	10.1			
1.52	6.9	2.38	13.4			
1.80	10.5	2.76	19.3			
2.00	14.4	2.96	23.5			
2.36	19.5	3.32	30.8			
2.89	36.1	3.85	48 1			

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 7YA

VDE approval

-90 °C to +135 °C



UDE-Reg-Nr : 9838

1 • Flexible bare copper core – class 5 as per IEC 60228 / DIN VDE 0295. Insulation: Fluorinated polymer ETFE.

Approvals - standards

• 7YA: VDE approval as per standards DIN VDE 0250 Part 1 and DIN VDE 0250 Part 106 - Licence no. 88272.

Applications

- · Cabling in household electrical appliances, electronics.
 - · Cabling in hot or cold environments (cryogenics).
 - Cabling in aggressive environments (humidity, chemicals, etc.).
 - Cabling requiring compact size and excellent mechanical strength.

Characteristics General

- Continuous operating temperatures:
- > Bare copper core: -90 °C to +130 °C.
- \geq Tin-plated, nickel-plated or silver-plated copper core: -90 °C to +135 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical 7YA

• Rated voltage: 450/750 V • Test voltage: 2500 V

Standard products

All colours including translucent.

Options

- Flexible tin-plated copper core ref. E7YA and E7YS: contact us.
- Flexible nickel-plated copper core ref. CN7YA and CN7YS: contact us.
- Flexible silver-plated copper core ref. A7YA and A7YS: contact us.
 Solid bare copper core ref. R7YA and R7YS: see details of the option below.
- Solid tin-plated copper core ref. RE7YA and RE7YS: contact us.

7YA

4

6

Flexible core • class 5 as per IEC 60228 INSULATED WIRE Nominal Nominal Maximum linear Nominal Nominal **Approximate** cross-section stranding resistance at 20 °C thickness diameter linear weight of insulation (mm²) (Ω/km) (kg/km) (mm) (mm) 19 x 0.13 or 7 x 0.22 80.7 4.6 0.25* 0.40 1 45 16 x 0.20 39.0 7.8 0.5 0.40 1.7 9.9 24 x 0.20 0.75 26.00.401 85 32 x 0.20 12.6 19.5 0.40 2.0 18.9 1.5 2.4 30×0.25 13.3 0.50 2.5 50 x 0.25 7.98 0.60 3.1 31.0 4 56 x 0.30 4.95 0.60 3.8 436 84 x 0.30 3.30 0.60 4.3 60.1 6 Option • R7YA Solid core • class 1 as per IEC 60228 42 0.25* 1 x 0.56 73.4 0.40 1.35 7.1 0.5 1 x 0.80 36.0 0.40 1.6 9.8 0.75 1 x 0.98 24.5 0.40 1.8 18.1 1.95 12.4 1 x 1 13 0.40 1.5 1 x 1.36 12.1 0.50 2.4 18.3 2.5 1 x 1.77 3.0 30.0 7.41 0.60

For this product, please contact:

1 x 2.24

1 x 2.74

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- * Nominal cross-section not included in IEC 60228
- (1) Standardised name: N7YAF VDE. (2) Standardised name: N7YA VDE.

0.60

0.60

4.61

3.08

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 some cases, for production purposes, a separating tape may be added between two successive layers. 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. ® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

3.45

3 95

44.7

63.9

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 7Y VDE approval -90 °C to +135 °C

1 • Solid bare or tin-plated copper core. Insulation: Fluorinated polymer ETFE.

2

Approvals - standards

• VDE approval as per standard DIN VDE 0881 - Licence no. 088244.

Applications

- Cabling in electronics and household appliances. Cabling in hot and aggressive environments (humidity, chemicals, etc.).
 - **Options**
 - Solid silver-plated copper core: contact us. • Twisted pair or triple or quad with no outer sheath -Standardised reference: 7Y n x Cross-section/Østranding (n being the number of twisted conductors).

Characteristics General

- Continuous operating temperatures: -90 °C to +135 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage:
 - > Nominal thickness of insulation (0.15 mm): 375 V.
 - > Nominal thickness of insulation (0.25 mm): 900 V.
- Test voltage:
 - > Nominal thickness of insulation (0.15 mm): 1500 V.
 - > Nominal thickness of insulation (0.25 mm): 2500 V.

Standard products

All colours including translucent.

SOLID CORE				INS	ULATED	WIRE
Standardised Nominal reference cross-section		Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
	(mm²)		(Ω/km) (bare copper core)	(mm)	(mm)	(kg/km)
7Y 1 x 0.25/0.55	0.05	1 x 0.25	384	0.15	0.55	0.8
7Y 1 x 0.32/0.6*	0.08	1 x 0.32	230	0.15	0.62	1.1
7Y 1 x 0.4 /0.7	0.125	1 x 0.40	146	0.15	0.7	1.6
7Y 1 x 0.5 /0.8	0.20	1 x 0.50	93.1	0.15	0.8	2.3
7Y 1 x 0.63/0.95*	0.31	1 x 0.63	58.7	0.15	0.93	3.4
7Y 1 x 0.8 /1.1	0.50	1 x 0.80	36.0	0.15	1.1	5.3
7Y 1 x 0.25/0.75	0.05	1 x 0.25	384	0.25	0.75	1.1
7Y 1 x 0.32/0.8*	0.08	1 x 0.32	230	0.25	0.82	1.5
7Y 1 x 0.4 /0.9	0.125	1 x 0.40	146	0.25	0.9	2.0
7Y 1 x 0.5 /1.0	0.20	1 x 0.50	93.1	0.25	1.0	2.8
7Y 1 x 0.63/1.2*	0.31	1 x 0.63	58.7	0.25	1.13	4.0
7Y 1 x 0.8 /1.3	0.50	1 x 0.80	36.0	0.25	1.3	5.9
7Y 1 x 1.0 /1.5*	0.785	1 x 1.00	23.1	0.25	1.5	8.7
7Y 1 x 1.3 /1.8*	1.33	1 x 1.30	13.6	0.25	1.8	14.0
7Y 1 x 1.6 /2.1*	2.01	1 x 1.60	9.01	0.25	2.1	20.6
7Y 1 x 2.1 /2.6*	3.46	1 x 2.10	5.23	0.25	2.6	34.3

^{*} Contact us.

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® Li7Y **VDE** approval -90 °C to +135 °C



- 1 Concentric bare, tin-plated or silver-plated copper core.
- Insulation: Fluorinated polymer ETFE.

Approvals - standards

 VDE approval as per standard DIN VDE 0881 - Licence no. 085392.

Applications

• Cabling in electronics and household appliances. Cabling in hot and aggressive environments (humidity, chemicals, etc.).

Options

• Twisted pair or triple or quad with no outer sheath -Standardised reference: Li7Y n x Cross-section/Østranding (n being the number of twisted conductors).

Characteristics General

- Continuous operating temperatures: -90 °C to +135 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage:
 - > Nominal thickness of insulation (0.15 mm): 375 V.
 - > Nominal thickness of insulation (0.25 mm): 900 V.
 - > Nominal thickness of insulation (0.40 mm): 1500 V.
 - > Nominal thickness of "ECO" insulation: 900 V.
- Test voltage:
 - > Nominal thickness of insulation (0.15 mm): 1500 V.
- > Nominal thickness of insulation (0.25 mm): 2500 V.
- > Nominal thickness of insulation (0.40 mm): 3000 V.
- > Nominal thickness of "ECO" insulation: 2500 V.

Standard products

All colours including translucent.

For this product, please contact:

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CONCENTRIC CORE

INSULATED WIRE OR CABLE

				_		
Standardised reference	Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
Standardised series	(mm²)		(Ω/km) (bare copper core)	(mm)	(mm)	(kg/km)
Li7Y 1 x 0.055/0.6	0.055	7 x 0.10	349	0.15	0.6	0.9
Li7Y 1 x 0.079/0.7	0.079	7 x 0.12	236	0.15	0.65	1.1
Li7Y 1 x 0.12 /0.8	0.12	7 x 0.15	151	0.15	0.75	1.6
Li7Y 1 x 0.22 /0.9	0.22	7 x 0.20	84.8	0.15	0.9	2.6
Li7Y 1 x 0.34 /1.1	0.34	7 x 0.25	54.3	0.15	1.05	3.8
Li7Y 1 x 0.56 /1.3	0.56	19 x 0.20**	32.5	0.15	1.25	5.9
Li7Y 1 x 0.055/0.8	0.055	7 x 0.10	349	0.25	0.8	1.2
Li7Y 1 x 0.079/0.9	0.079	7 x 0.12	236	0.25	0.85	1.5
Li7Y 1 x 0.12 /1.0	0.12	7 x 0.15	151	0.25	0.95	2.0
Li7Y 1 x 0.22 /1.1	0.22	7 x 0.20	84.8	0.25	1.1	3.1
Li7Y 1 x 0.34 /1.3	0.34	7 x 0.25	54.3	0.25	1.25	4.4
Li7Y 1 x 0.56 /1.5	0.56	19 x 0.20**	32.5	0.25	1.45	6.6
Li7Y 1 x 0.93 /1.8	0.93	19 x 0.25	20.0	0.25	1.75	10.4
Li7Y 1 x 1.3 /2.0	1.3	19 x 0.29	14.9	0.25	1.95	13.6
Li7Y 1 x 1.9 /2.3	1.9	19 x 0.36	9.46	0.25	2.3	20.1
Li7Y 1 x 3.2 /2.8	3.2	19 x 0.46	5.79	0.25	2.8	31.8
Li7Y 1 x 0.12 /1.3	0.12	7 x 0.15	151	0.40	1.25	2.9
Li7Y 1 x 0.22 /1.4	0.22	7 x 0.20	84.8	0.40	1.4	4.1
Li7Y 1 x 0.34 /1.6	0.34	7 x 0.25	54.3	0.40	1.55	5.5
Li7Y 1 x 0.56 /1.8	0.56	19 x 0.20**	32.5	0.40	1.75	7.9
Li7Y 1 x 0.93 /2.1	0.93	19 x 0.25	20.0	0.40	2.05	11.9
Li7Y 1 x 1.3 /2.3	1.3	19 x 0.29	14.9	0.40	2.25	15.2
Li7Y 1 x 1.9 /2.6	1.9	19 x 0.36	9.46	0.40	2.6	22.1
Li7Y 1 x 3.2 /3.1	3.2	19 x 0.46	5.79	0.40	3.1	34.2
Li7Y 1 x 4.6 /3.6	4.6	37 x 0.40	3.93	0.40	3.6	48.7
Li7Y 1 x 8.8 /5.2	8.8	133 x 0.29*	2.12	0.60	5.2	93.8
Li7Y 1 x 13.5 /6.2	13.5	133 x 0.36*	1.35	0.60	6.25	140
Economical series						
1:7/1 015 /00	0.15	10 010	105	0.17	0.0	1.0
Li7Y 1 x 0.15 /0.8	0.15	19 x 0.10	135	0.16	0.8	1.9
Li7Y 1 x 0.22 /0.9	0.22	19 x 0.12	86.0	0.16	0.9	2.5
Li7Y 1 x 0.36 /1.1	0.36	19 x 0.15	53.2	0.16	1.1	3.9
Li7Y 1 x 0.59 /1.3	0.59	19 x 0.20	32.4 20.4	0.17	1.3 1.55	6.3 9.5
Li7Y 1 x 0.93 /1.55	1.3	19 x 0.25 19 x 0.29	15.8	0.17	1.55	9.5 12.8
Li7Y 1 x 1.3 /1.8 Li7Y 1 x 1.9 /2.15	1.3	19 x 0.29 19 x 0.36	15.8	0.21	2.15	12.8
Li7Y 1 x 1.9 / 2.15	2.8	37 x 0.30	6.63	0.23	2.13	28.6
,	4.6	37 x 0.31	4.13	0.20	3.4	46.8
Li7Y 1 x 4.6 /3.4	4.0	3/ X U.4U	4.13	0.32	3.4	40.0

For this product, please contact:

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^{*} Non-concentric cores.
** Nominal stranding not defined in standard DIN VDE 0881.

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® FEP and EFEP -90 °C to +205 °C

Approvals - standards

Series inspired by standards NF C 93-524 and DIN VDE 0250 Part 106.

Applications

- Cabling for rotating machines. Cabling in household electrical appliances, electronics.
 Cabling in hot or cold environments (cryogenics).
 - Cabling in aggressive environments (humidity, chemicals, etc.). Cabling requiring compact size
 - and excellent mechanical strength.

Options

- Nickel-plated copper core: ref. CNFEP. Silver-plated copper core: ref. AFEP.
 Pure nickel core: ref. NFEP.
- Outer electrical shielding: > Tin-plated copper braid: ref. FEPBE or EFEPBE.
- 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.

2

- 1 Bare (ref. FEP) or tin-plated (ref. EFEP) copper core.
- 2 Insulation: Fluorinated polymer FEP.

Characteristics

General

- Continuous operating temperatures: -90 °C to +205 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

• Rated voltage: 450/750 V. • Test voltage: 2500 V.

Standard products

All colours including translucent.

FEP and EFEP

CONDUCTING CORE			INSULATE	D WIRE	OR CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km) (bare copper core)	(mm)	(mm)	(kg/km)
0.05	7 x 0.10	373	0.17	0.65	1.1
0.09	7 x 0.13	214	0.17	0.7	1.4
0.12*	7 x 0.15	161	0.17	0.8	1.9
0.14**	7 x 0.16	141	0.17	0.8	2.0
0.15	19 x 0.10	136	0.20	0.9	2.3
0.22	7 x 0.20	89.9	0.20	1.0	3.0
0.25	19 x 0.13	80.0	0.20	1.05	3.4
0.34	7 x 0.25	57.5	0.20	1.15	4.3
0.38**	19 x 0.16	54.1	0.20	1.15	4.6
0.5	7 x 0.30	39.6	0.20	1.3	5.9
0.5	16 x 0.20	39.0	0.20	1.3	6.2
0.6	19 x 0.20	32.8	0.20	1.4	6.7
0.75	24 x 0.20	26.0	0.20	1.45	8.8
0.88	7 x 0.40	22.2	0.20	1.5	9.3
0.93	19 x 0.25	21.0	0.20	1.7	10.5
1	32 x 0.20	19.5	0.20	1.7	11.9
1.34	19 x 0.30	14.6	0.20	1.9	14.3
1.5	30 x 0.25	13.3	0.20	1.95	16.3
2.5	50 x 0.25	7.98	0.20	2.5	26.6
4	56 x 0.30	4.95	0.25	3.1	40.4
6	84 x 0.30	3.30	0.35	3.9	57.7
10	80 x 0.40	1.91	0.40	5.2	104
16	126 x 0.40	1.21	0.40	6.2	150
25	196 x 0.40	0.780	0.60	8.2	248
35	276 x 0.40	0.554	0.60	9.2	328
50	396 x 0.40	0.386	0.70	11.2	478

For this product, please contact:

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** Nominal cross-sections not available with the ref. FEP.

^{*} Naminal cross-section not available with the ref. EFEP.

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 6YS **VDE** approval -90 °C to +180 °C

1 • Flexible bare copper core – class 5 as per IEC 60228 / DIN VDE 0295.

2 • Insulation: Fluorinated polymer FEP.

2

Approvals - standards

• 6YS: VDE approval as per standard DIN VDE 0250 Part 106 - Licence no. 107583.

Applications

- · Cabling in household electrical appliances, electronics. Cabling in hot or cold environments (cryogenics).
 - Cabling in aggressive environments (humidity, chemicals, etc.).
 - Cabling requiring compact size and excellent mechanical strength.

Characteristics General

- Continuous operating temperatures:
 - > Bare copper core: -90 °C to +130 °C.
 - > Tin-plated, nickel-plated or silver-plated copper core: -90 °C to +180 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical 6YS

• Rated voltage: 300/500 V. Test voltage: 2000 V.

Standard products

All colours including translucent.

Options

- Flexible tin-plated copper core ref. E6YA and E6YS: contact us.
 Flexible nickel-plated copper core ref. CN6YA and CN6YS: contact us.
 Flexible silver-plated copper core ref. A6YA and A6YS: contact us.
 Solid bare copper core ref. R6YA and R6YS: see details of the option below.
 Solid tin-plated copper core ref. RE6YA and RE6YS: contact us.

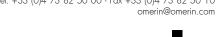
6YS

Flexible core • class 5 as per IEC 60228			INSULATED WIRE		
Nominal Nominal cross-section stranding		Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(kg/km)
0.25*	19 x 0.13 or 7 x 0.22	80.7	0.30	1.25	4.2
0.5	16 x 0.20	39.0	0.30	1.5	6.5
0.6*	19 x 0.20	32.8	0.30	1.5	7.4
0.75	24 × 0.20	26.0	0.30	1.65	8.7
1	32 x 0.20	19.5	0.30	1.8	10.9
1.5	30 x 0.25	13.3	0.30	2.0	14.9
2.5	50 x 0.25	7.98	0.35	2.6	25.0
4	56 x 0.30	4.95	0.40	3.4	41.9
6	84 x 0.30	3.30	0.40	3.9	60.1
	ore • class 1 as per IEC 6				
0.25*	1 x 0.56	73.4	0.30	1.15	3.9
0.5	1 x 0.80	36.0	0.30	1.4	6.8
0.75	1 x 0.98	24.5	0.30	1.6	9.5
1	1 x 1.13	18.1	0.30	1.75	12.0
1.5	1 x 1.36	12.1	0.30	2.0	16.7
2.5	1 x 1.77	7.41	0.35	2.5	27.4
4	1 x 2.24	4.61	0.40	3.05	42.7
6	1 x 2.74	3.08	0.40	3.55	61.7

For this product, please contact:

* Nominal cross-sections not described in IEC 60228.







FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 6Y6YS and E6Y6YS

Double insulating layer **VDE** approval

-90 °C to +180 °C

Approvals - standards

 \bullet VDE approval as per standard DIN VDE 0250 Part 106 -

1 • Multistrand bare (ref. 6Y6YS) or tin-plated (ref. E6Y6YS) copper core.

2 • Insulation: Fluorinated polymer FEP.

M2 - VDE REG-NR: 7724

Licence no. 40001865.

Applications

Cabling for class 2 light fittings, household electrical appliances, electronics, etc.
 Cabling in hot or cold environments (cryogenics).

- Cabling in aggressive environments (humidity, chemicals, etc.).
 - · Cabling in the medical field. Cabling requiring compact size and excellent mechanical strength.

Options

• Nickel-plated copper core - ref. CN6Y6YS: contact us. Silver-plated copper core – ref. A6Y6YS: contact us.
 Solid bare (ref. R6Y6YS) or tin-plated (ref. RE6Y6YS) copper core: See details of the option below.

Characteristics General

- Continuous operating temperatures:
 - > Bare copper core: -90 °C to +130 °C.
- > Tin-plated, nickel-plated or silver-plated copper core: -90 °C to +180 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- · Excellent mechanical strength.

Electrical

• Rated voltage: 300/500 V. • Test voltage: 2000 V.

Standard products

All solid colours.

6Y6YS and E6Y6YS

	na E01013								
	M	ULTISTRAND CO	RE	INSULATED WIRE					
	minal section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight			
AWG	(mm²)		(Ω/km) (tin-plated copper core)	(mm)	(mm)	(kg/km)			
24	0.25	19 x 0.13	82.9	0.60	1.85	7.3			
22	0.34	7 x 0.25	60.6	0.60	1.95	8.5			
-	0.38	19 x 0.16	55.7	0.60	2.0	9.1			
-	0.5	16 x 0.20	40.1	0.60	2.1	10.5			
-	0.5	7 x 0.30	36.7	0.60	2.1	10.5			
20	0.6	19 x 0.20	33.7	0.60	2.15	11.4			
18	0.75	24 x 0.20	26.7	0.60	2.25	13.8			
-	0.93	19 x 0.25	21.6	0.60	2.4	15.4			
-	1	32 x 0.20	20.0	0.60	2.45	17.2			
16	1.34	19 x 0.30	15.0	0.60	2.6	20.2			
-	1.5	30 x 0.25	13.7	0.60	2.65	21.7			
ption •	R6Y6YS and	RE6Y6YS							
		SOLID CORE							
-	0.25	1 x 0.56	74.8	0.60	1.75	6.9			
-	0.5	1 x 0.80	36.7	0.60	2.0	10.2			
-	0.75	1 x 0.98	24.8	0.60	2.2	13.3			
-	1	1 x 1.13	18.2	0.60	2.35	16.2			
-	1.5	1 x 1.38	12.2	0.60	2.6	21.7			

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® PFA and **EPFA** -90 °C to +260 °C

- 1 Bare (ref. PFA) or tin-plated (ref. EPFA) copper core.
- Insulation: Fluorinated polymer PFA.

Approvals - standards

Series inspired by standards NF C 93-524 and DIN VDE 0250 Part 106.

Applications

- Cabling for rotating machines.
- Cabling in household electrical appliances, electronics.
 Cabling in hot or cold environments (cryogenics).
 Cabling in aggressive environments (humidity, chemicals, etc.).
 - · Cabling requiring compact size and excellent mechanical strength.

Options

- Nickel-plated copper core: ref. CNPFA. Silver-plated copper core: ref. APFA.
 - Pure nickel core: ref. NPFA.
 - Outer electrical shielding:
- > Tin-plated copper braid: ref. PFABE or EPFABE. • 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: -90 °C to +260 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

 Rated voltage: 450/750 V. Test voltage: 2500 V.

Standard products

All colours including translucent.

PFA and FPFA

	CONDUCTING	CORE	INSULATI	D WIRE	OR CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km) (bare copper core)	(mm)	(mm)	(kg/km)
0.05	7 x 0.10	373	0.17	0.65	1.1
0.09	7 x 0.13	214	0.17	0.7	1.4
0.12*	7 x 0.15	161	0.17	0.8	1.9
0.14**	7 x 0.16	141	0.17	0.8	2.0
0.15	19 x 0.10	136	0.20	0.9	2.3
0.22	7 x 0.20	89.9	0.20	1.0	3.0
0.25	19 x 0.13	80.0	0.20	1.05	3.4
0.34	7 x 0.25	57.5	0.20	1.15	4.3
0.38**	19 x 0.16	54.1	0.20	1.15	4.6
0.5	7 x 0.30	39.6	0.20	1.3	5.9
0.5	16 x 0.20	39.0	0.20	1.3	6.2
0.6	19 x 0.20	32.8	0.20	1.4	6.7
0.75	24 x 0.20	26.0	0.20	1.45	8.8
0.88	7 x 0.40	22.2	0.20	1.5	9.3
0.93	19 x 0.25	21.0	0.20	1.7	10.5
1	32 x 0.20	19.5	0.20	1.7	11.9
1.34	19 x 0.30	14.6	0.20	1.9	14.3
1.5	30 x 0.25	13.3	0.20	1.95	16.3
2.5	50 x 0.25	7.98	0.20	2.5	26.6
4	56 x 0.30	4.95	0.25	3.1	40.4
6	84 x 0.30	3.30	0.35	3.9	57.7
10	80 x 0.40	1.91	0.40	5.2	104
16	126 x 0.40	1.21	0.40	6.2	150
25	196 x 0.40	0.780	0.60	8.2	248
35	276 x 0.40	0.554	0.60	9.2	328
50	396 x 0.40	0.386	0.70	11.2	478

For this product, please contact:

OMERIN division principale 🗹

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* Nominal cross-section not available with the ref. EPFA

** Nominal cross-sections not available with the ref. PFA.

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 51YS

VDE approval -90 °C to +250 °C

Approvals - standards

Options

Licence no. 106489.

5IYA 1,50mm²- VDE-Reg-Nr: 9840

- Flexible bare copper core class 5 as per IEC 60228 / DIN VDE 0295.
- 2 Insulation: Fluorinated polymer PFA.

and excellent mechanical strength.

• VDE approval as per standard DIN VDE 0250 Part 106

Cabling in aggressive environments (humidity, chemicals, etc.).
 Cabling requiring compact size

Characteristics Applications

- **General** Cabling in household electrical appliances, electronics.
 Cabling in hot or cold environments (cryogenics).
 - Continuous operating temperatures: > Bare copper core: -90 °C to +130 °C.
 - > Tin-plated copper core: -90 °C to +180 °C. > Silver-plated copper core: -90 °C to +200 °C.
 - > Nickel-plated copper core: -90 °C to +250 °C.

 - Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.
 - · Excellent mechanical strength.

Electrical

300/500 V. Rated voltage: 2000 V. • Test voltage:

Flexible silver-plated copper core - ref. A51YS: contact us. Solid bare copper core – ref. R51YS: see details of the option below. • Solid tin-plated copper core - ref. RE51YS: contact us.

• Flexible tin-plated copper core – ref. E51YS: contact us.
• Flexible nickel-plated copper core – ref. CN51YS: contact us.

Rated voltage 450/750 V - réf. 51YA: contact us.

Standard products

All colours including translucent.

51YS

Flexible	core • class 5 as per IEC	60228	INSU	LATED W	IRES
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(kg/km)
0.25*	19 x 0.13 or 7 x 0.22	79.9	0.30	1.25	4.2
0.5	16 x 0.20	39.0	0.30	1.5	6.5
0.75	24 x 0.20	26.0	0.30	1.65	8.7
1	32 x 0.20	19.5	0.30	1.8	10.9
1.5	30 x 0.25	13.3	0.30	2.0	14.9
2.5	50 x 0.25	7.98	0.35	2.6	25.0
4	56 x 0.30	4.95	0.40	3.4	41.9
6	84 x 0.30	3.30	0.40	3.9	60.1
Option • R51YS Solid o	ore • class 1 as per IEC 60	0228			
0.25*	1 x 0.56	74.5	0.30	1.15	3.9
0.5	1 x 0.80	36.0	0.30	1.4	6.8
0.75	1 x 0.98	23.1	0.30	1.6	9.5
1	1 x 1.13	18.1	0.30	1.75	12.0
1.5	1 x 1.36	12.1	0.30	2.0	16.7
2.5	1 x 1.77	7.41	0.35	2.5	27.4
4	1 × 2.24	4.61	0.40	3.05	42.7
6	1 x 2.74	3.08	0.40	3.55	61.7

For this product, please contact:

* Nominal cross-section not described in IEC 60228

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® RETFE, RFEP and RPFA -90 °C to +260 °C

2 1

Approvals - standards

• Series inspired by standard NF C 93-522.

Applications

- Cabling in household electrical appliances, electronics.
 - Cabling in hot or cold environments (cryogenics).
 - Cabling in aggressive environments (humidity, chemicals, etc.).
 - Cabling requiring compact size and excellent mechanical strength.

Options

- Solid tin-plated copper core
 ref. REETFE, REFEP and REPFA: contact us.
 Solid silver-plated copper core
 ref. RAETFE, RAFEP and RAPFA: contact us.
 Solid nickel-plated copper core
 ref. RCNETFE, RCNFEP and RCNPFA: contact us.
- Solid pure nickel core ref. RNETFE, RNFEP and RNPFA: contact us.

1 • Solid bare copper core.

 Insulation: Fluorinated polymer ETFE (ref. RETFE) or FEP (ref. RFEP) or PFA (ref. RPFA).

Characteristics General

• Continuous operating temperatures:

RETFE: -90 °C to +155 °C. RFEP: -90 °C to +205 °C. RPFA: -90 °C to +260 °C.

- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

Rated voltage: 300/500 V.Test voltage: 2500 V.

Standard products

All colours including translucent.

RETFE, RFEP and RPFA

	SOLID CORE		INSULATED WIRE					
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight			
(mm²)		(Ω/km)	(mm)	(mm)	(kg/km)			
0.03	1 x 0.20	599	0.15	0.5	0.6			
0.05	1 x 0.25	384	0.15	0.55	0.8			
0.07	1 x 0.30	268	0.17	0.65	1.2			
0.125	1 x 0.40	140	0.17	0.75	1.8			
0.15	1 x 0.43	118	0.17	0.8	2.1			
0.2	1 x 0.50	93.1	0.17	0.85	2.6			
0.22	1 x 0.52	84.2	0.17	0.85	2.7			
0.32*	1 x 0.64	57.5	0.20	1.05	4.1			
0.5	1 x 0.80	36.0	0.20	1.2	5.9			
0.75	1 x 0.98	24.5	0.20	1.4	8.5			
1	1 x 1.13	18.1	0.25	1.65	11.5			
1.5	1 x 1.36	12.1	0.25	1.9	16.0			
2.5	1 x 1.77	7.41	0.30	2.4	26.6			
4	1 x 2.24	4.61	0.35	2.95	41.7			
6	1 v 2 7/1	3.08	0.35	3.45	60.5			

For this product, please contact:

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✓
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** Nominal cross-section available in the solid tin-plated copper core version only.

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 105 °C

Fluoropolymer insulation **UL** and cUL approval



30V FT1 SILIFLON 105C 1508 🔼 AWM

- 1 Bare, tin-plated, nickel-plated or silver-plated copper core.
- 2 Insulation: Fluorinated polymer.

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

Applications

· Cabling for household electrical heating appliances, small electric motors, electronic equipment, rear computer panels, etc.

Options

 Other nominal cross-sections: contact us. • Other style nos. available: styles no. 1226, 1517 and 1523. • Style n° 1863 (125°C - 300 V): contact us.

Characteristics General

- Continuous operating temperatures: -90 °C to +105 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

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

Standard products

- All colours including translucent.
- Stranding of conducting cores: contact us.

	tyle no. nsulation		513 Thin-wall"			227		1508 ETFE "Thin-wall"		10101 ETFE		
A	pproval	105 °	105 °C - VNS 105 °C -		C - VNS	105 °C - 30 V				105 °C - 250 V		
	ninal section (mm²)	Average thickness of insulation (mm)	Nominal diameter*			Nominal diameter*			Nominal diameter*			Nominal diameter* (mm)
30	0.05	0.13	0.55		0.20	0.7		0.14	0.6		0.25	0.8
28	0.09	0.13	0.65		0.20	0.8		0.14	0.7		0.25	0.9
26	0.13	0.13	0.75		0.20	0.9		0.14	0.75		0.25	1.0
24	0.22	0.13	0.85		0.20	1.0		0.14	0.9		0.25	1.1
22	0.34	0.13	1.0		0.20	1.15		0.14	1.05		0.25	1.25
-	0.5	0.13	1.2		0.20	1.3		0.14	1.2		0.25	1.35
20	0.6	0.13	1.25		0.20	1.4		0.14	1.3		0.25	1.45
-	0.75	-	-		0.33	1.75		-	-		-	-
18	0.93	-	-		0.33	1.9		-	-		-	-
-	1	-	-		0.33	1.95		-	-		-	-
16	1.34	-	-		0.33	2.2		-	-		-	-
-	1.5	-	-		0.33	2.2		-	-		-	-
14	-	-	-		0.33	2.6		-	-		-	-
-	2.5	-	-		0.33	2.7		-	-		-	-
12	-	-	-		0.33	3.2		-	-		-	-
-	4	-	-		0.33	3.25		-	-		-	-
10	-	-	-		0.33	3.9		-	-		-	-
-	6	-		П	0.33	3.9		-	-		-	-
Conduct	ing metal	В	CD		BCI	DEFG		ВС	CD		ВС	CD

For this product, please contact:

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Conducting metals

B Tin-plated copper

- Tin-plated copper (ø > 0.38 mm) Nickel-plated copper
- Silver-plated copper Nickel
- Bare copper
- F* Bare copper (Ø > 0.38 mm)
 G Nickel-plated copper 27 %

A I MWA 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.

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® Style 10935 ETFE insulation + reinforcing braid **UL** and cUL approval -60 °C to +150 °C

3 SILIFLON 150C 18935 WA AWM

Approvals - standards

- UL approval as per standard UL 758 -File no.: E101965.
- cUL approval as per standard C22.2 No. 210 (AWM | A/B FT1 FT2 150°C 600V) -File no.: E101965.
- CSA approval as per standard C22.2 No. 127 (Equipment and Lead Wire).
 - "Horizontal flame test" as per UL approval. "FT1 flame rating" as per cUL approval.
 - "FT2 flame rating" as per cUL approval.

Applications

· Internal cabling for electrical appliances or electronic appliances.

Options

 Other nominal stranding: contact us. Other colours: contact us.

- Bare or tin-plated copper core
- 2 Insulation: Fluorinated polymer ETFE.
- 3 Reinforcement: Varnished synthetic fibre braid.

Characteristics General

- \bullet Continuous operating temperatures: -60 °C to +150 °C
- Excellent resistance to solvents, impregnation varnish and other chemical influences.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

• Rated voltage: 600 V. • Test voltage: 6000 V.

Standard products

- Standard insulation colour: white.
- Standard reinforcing braid colours: white, blue, red, black, yellow or brown.

Style no. Approval

10935 150°C - 600 V

	Approval		AWM I	A/B		
	ninal section	Average thickness of insulation	Nominal d		Approximate linear weight	
AWG	(mm²)	(mm)	Multistrand core (mn	Solid core n)	(kg/km)	
24	0.22	0.15	1.2	1.15	3.2	
22	0.34	0.15	1.3	1.2	4.3	
-	0.5	0.15	1.5	1.4	6.1	
20	0.6	0.15	1.6	-	6.8	
-	0.75	0.20	1.7	1.65	8.9	
18	0.93	0.20	1.85	1.7	10.1	
-	1	0.20	2.0	1.9	11.5	
16	1.34	0.20	2.2	2.0	15.0	
-	1.5	0.20	2.25	2.1	16.0	
14	-	0.33	2.8	2.6	22.4	
-	2.5	0.33	3.1	2.9	26.4	
12	-	0.33	3.4		38.2	
-	4	0.33	3.6	3.3	38.6	
10	-	0.33	4.1	-	56.0	
-	6	0.33	4.2	4.0	56.1	
8	-	0.51	5.2		91.5	
-	10	0.51	6.0	-	107	
6	-	0.51	6.8		143	
-	16	0.51	7.1	-	160	
4	-	0.51	8.1		220	
-	25	0.51	8.6	-	249	
2	35	0.51	9.7	-	331	
1	-	0.76	11.3	-	443	
-	50	0.76	11.7		478	
1/0	-	0.76	12.4	-	545	
2/0	70	0.76	13.5		659	
3/0	-	0.76	15.1	-	838	
-	95	0.76	15.2	-	855	
4/0	-	0.76	16.7	-	1 045	
-	120	0.76	16.9	-	1 094	
Conduct	ing metal		BF			

Conducting metals B Tin-plated copper Tin-plated copper (Ø > 0.38 mm) AWM I A/B Internal wiring AWM II A/B External or Internal wiring

D Silver-plated copper E Nickel

Bare copper F* Bare copper (Ø > 0.38 mm)
G Nickel-plated copper 27 % AWM I A Internal wiring, not subject to mechanical abuse

Not Specified VNS Voltage Not Specified

: UL approved nominal crosssections only.

For this product, please contact:

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The diameter is provided for information purposes as it may vary depending on the stranding of the core. Only the average thickness

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® Style 11881 FEP insulation + reinforcing braid

FEP insulation + reinforcing braid UL and cUL approval -60°C to +200°C



3 2 1 SILIFLON 200C 11881 **NA** AWM

- 1 Bare, tin-plated, nickel-plated or silver-plated copper core.
- 2 Insulation: Fluorinated polymer FEP.
- 3 Reinforcement: Varnished fiberglass braid.

Approvals - standards

- UL approval as per standard UL 758 File no.: E101965.
- cUL approval as per standard C22.2 No. 210
 (AWM | A/B FT1 FT2 200°C 600V) –
 File no.: E101965.
 - "Horizontal flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.
 - "FT2 flame rating" as per cUL approval.

Applications

 Internal cabling for electrical appliances or electronic appliances.

Options

- Other nominal stranding: contact us.
 - Other colours: contact us.

Characteristics General

- Continuous operating temperatures: -60 °C to +200 °C
- Excellent resistance to solvents, impregnation varnish and other chemical influences.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

Rated voltage: 600 V.Test voltage: 6000 V.

Standard products

- Standard insulation colour: white.
- Standard reinforcing braid colours: white, blue, red, black, yellow or brown.



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Style no.

11881

Approval			200°C - 600 V AWM I A/B							
Nominal cross-section		Average thickness of insulation	Nominal d	iameter*	Approximate linear weight					
AWG	(mm²)	(mm)	(mn		(kg/km)					
24	0.22	0.15	1.2	1.15	3.2					
22	0.34	0.15	1.3	1.2	4.3					
	0.5	0.15	1.5	1.4	6.1					
20	0.6	0.15	1.6	=	6.8					
-	0.75	0.20	1.7	1.65	8.9					
18	0.93	0.20	1.85	1.7	10.1					
-	1	0.20	2.0	1.9	11.5					
16	1.34	0.20	2.2	2.0	15.0					
-	1.5	0.20	2.25	2.1	16.0					
14	-	0.33	2.8	2.6	22.4					
-	2.5	0.33	3.1	2.9	26.4					
12	-	0.33	3.4	=	38.2					
-	4	0.33	3.6	3.3	38.6					
10	-	0.33	4.1	÷	56.0					
-	6	0.33	4.2	4.0	56.1					
8	-	0.51	5.2	ē	91.5					
-	10	0.51	6.0	-	107					
6	-	0.51	6.8		143					
-	16	0.51	7.1	-	160					
4	-	0.51	8.1	-	220					
-	25	0.51	8.6	=	249					
2	35	0.51	9.7	-	331					
1	-	0.76	11.3	-	443					
-	50	0.76	11.7	-	478					
1/0	-	0.76	12.4	-	545					
2/0	70	0.76	13.5	-	659					
3/0	-	0.76	15.1	-	838					
-	95	0.76	15.2	-	855					
4/0	-	0.76	16.7	-	1 045					
-	120	0.76	16.9	-	1 094					
Conducti	ing metal		B*CDE	F*G						

* 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.

KEY

- C Nickel-plated copper

- 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/BExternal or Internal wiring

NS Not Specified VNS Voltage Not Specified

: UL approved nominal cross-sections only.



FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 150 °C

Fluoropolymer insulation **UL** and cUL approval



300V FT1 SILIFLON 150C 10125

- 1 Bare, tin-plated, nickel-plated or silver-plated copper core
- Insulation: Fluorinated polymer.

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.
 - "Horizontal flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval. VW-1 approval for Style 1333, Style 10126 and Style 11945 (AWG 24 to 18 Cross-sections).

Characteristics General

- Continuous operating temperatures: -90 °C to +150 °C.
- Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.
 - Excellent mechanical strength.

Electrical

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

Standard products

- All colours including translucent.
- Stranding of conducting cores: contact us.

Applications

• Cabling for household electrical heating appliances, rotating machines, industrial machines, electronic equipment, rear computer panels, etc.

Options

Other nominal cross-sections: contact us.

	Insulation	EIFE "Inin-Wall"					
	Approval	150 °C	- 125 V				
	ominal s-section	Average thickness of insulation	Nominal diameter*				
AWG	(mm²)	(mm)	(mm)				
30	0.05	0.14	0.6				
28	0.09	0.14	0.7				
26	0.13	0.14	0.75				
24	0.22	0.14	0.9				
22	0.34	0.14	1.05				
-	0.5	0.14	1.2				
20	0.6	0.14	1.3				
-	0.75	0.20	1.5				
18	0.93	0.20	1.65				
-	1	0.20	1.7				
16	1.34	0.20	1.9				
-	1.5	0.20	1.9				
14	-	0.33	2.55				
-	2.5	0.33	2.7				
12	-	0.33	3.1				
-	4	0.33	3.25				
10	-	0.33	3.7				
	6	0.33	3.9				
8	-	-	-				
-	10	-	-				
6	-		-				
-	16		-				
4	-		-				
-	25	-	-				
2	35		-				
1	-	-	-				
-	50	-	-				
1/0	-	-	-				
2/0	70	-	-				
3/0	-	-	-				
-	95	-	-				
4/0							
-	120						
C I.		· DCL	NEEC.				
Conac	cting metal	BCL	EFG				

Style no.

150 °C	- 300 V	150 °C	- 300 V	150 °C	- 300 V
Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*
tion	(mm)	tion	(mm)	tion	(mm)
(mm) 0.15	0.6	(mm) 0.33	0.95	(mm) 0.33	0.95
0.15	0.7	0.33	1.05	0.33	1.05
0.15	0.75	0.33	1.15	0.33	1.15
0.15	0.9	0.33	1.3	0.33	1.3
0.15	1.05	0.33	1.4	0.33	1.4
0.15	1.25	0.33	1.6	0.33	1.6
0.15	1.3	0.33	1.65	0.33	1.65
0.15	1.4	0.33	1.75	0.33	1.75
0.15	1.55	0.33	1.9	0.33	1.9
0.15	1.65	0.33	1.95	0.33	1.95
0.20	1.9	0.33	2.2	0.33	2.2
0.20	1.9	0.33	2.2	0.33	2.2
0.20	2.5	0.33	2.55	0.33	2.55
0.20	2.45	0.33	2.7	0.33	2.7
0.25	2.9	0.33	3.1	0.33	3.0
0.25	3.1	0.33	3.25	0.33	3.25
0.25	3.6	0.33	3.7	0.33	3.9
0.25	3.7	0.33	3.9	0.33	3.9
0.64	5.4	-	-	0.51	5.3
0.64	5.7	-	-	0.51	5.4
0.64	6.6	-	-	0.51	6.3
0.64	6.7	-	-	0.51	6.6
0.64	7.8	-	-	0.51	7.4
0.64	8.3		-	0.51	8.0
0.89	10.0	-	-	0.51	9.3
0.89	11.0		-	0.76	10.7
0.89	11.4	-	-	0.76	11.1
1.14	12.5	-	-	0.76	11.7
1.14	14.0		-	0.76	12.8
1.14	15.2	-	-	0.76	14.4
1.14	15.4		-	0.76	14.6
1.14	16.8		-	0.76	16.0
1.14	17.1	-		0.76	16.3

BCDFFG

 Other style nos. available: styles no. 1591, 1814, 1829, 1857, 1858, 1859, 11537, 10211.

Conducting metals

- B Tin-plated copper B* Tin-plated copper (Ø > 0.38 mm)
- Nickel-plated copper
- Silver-plated copper Nickel

- Bare copper Bare copper (ø > 0.38 mm) G Nickel-plated copper 27 %

Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring

BCDFFG

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.

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 some cases, for production purposes, a separating tape may be added between two successive layers. 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. ® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.



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1333-VW-1 10126-VW-1 1644 ETFE 1331 FEP Style no. 10210 ETFE "Thin-wall 11945 ETFE "Thin-wall Insulation **Approval** 150 °C - 300 V 150 °C - 600 V 150 °C - 750 V Average thickness of insula-tion (mm) Nominal Average thickness of insula-tion Average thickness of insula-tion (mm) Average thickness Average thickness Average thickness of insulaof insula-tion (mm) 0.25 of insula-tion AWG (mm) 0.33 (mm) 0.51 (mm) 0.51 0.95 0.05 0.8 1.3 1.3 0.09 0.9 1.05 0.25 28 0.33 0.51 1.4 0.51 1.4 0.33 0.25 1.05 0.51 0.51 0.9 0.15 0.15 24 0.22 0.33 1.3 0.25 1.15 0.51 1.65 0.51 1.65 0.51 0.34 1.05 0.33 0.25 0.5 0.33 1.6 0.15 1.25 0.25 1.4 0.51 1.95 0.51 1 95 0.15 1.25 20 1.35 0.6 1.65 0.15 0.25 0.51 0.51 1.35 0.75 0.33 0.15 18 0.15 0.15 0.93 0.33 1 55 0.25 1.8 0.51 2.25 0.51 2.25 0.25 0.51 0.51 0.33 1.95 1.65 1.8 2.3 2.3 1.65 16 1.34 0.33 0.20 2.55 0.33 22 0.20 19 0.25 20 0.51 2.55 14 0.20 0.20 0.20 0.25 2.45 2.9 0.33 2.7 2.45 0.25 2.45 0.51 3.0 0.51 3.0 12 0.38 0.51 0.51 0.33 3.25 0.38 0.51 0.33 0.25 3.6 0.38 4.1 0.51 4.1 0.51 0.25 0.33 0.38 4.3 0.51 4.3 0.64 0.76 5.6 5.9 0.76 5.7 0.76 5.9 0.64 0.76 0.64 6.7 0.76 71 0.76 0.64 7.8 0.76 8.0 0.76 8.0 25 35 0.64 0.76 8.5 0.76 8.5 0.89 0.76 0.76 0.89 11.2 50 0.89 1 14 1/0 12.5 1.14 12.5 1.14 12.5 1.14 2/0 70 14.0 3/0 15.2 15.4 1 14 15.2 1 14 1 14 16.8 17.1 4/0 1.14 1.14 16.8 1.14 16.8 120 1.14 1.14 1.14 17.1 **BCDEFG BCDEFG BCDEFG** Conducting metal **BCDEFG BCDEFG BCDEFG**

For this product, please contact:

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KEY

Conducting metals

Tin-plated copper Tin-plated copper (ø > 0.38 mm)

C Nickel-plated copper
D Silver-plated copper

Silver-plated copper

Nickel

F Bare copper (Ø > 0.38 mm) G Nickel-plated copper 27 %

Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring

10358 ETFE

150 °C - 1000 V (cUL 600 V)

1.3

1.4

1.65

1 95

2.25

2.3

2.55

3.0

5.9

71

8.0

8.5

12.5

15.2

16.8

17.1

BCDEFG

Average thickness of insula-tion

(mm) 0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.76

0.76

0.76

0.76

0.76

1 14

1.14

114

1.14

1.14

0.51

AWM II A/B External or Internal wiring

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.

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 200 °C

Fluoropolymer insulation **UL** and cUL approval



Style no.

1900

1332-VW-1

SILIFLON 200C 10109

1 • Bare, tin-plated, nickel-plated or silver-plated copper core.

10969

Insulation: Fluorinated polymer.

10109

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.
 - "Horizontal flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.
 VW-1 approval for Style 1330 and 1332.

Characteristics General

- Continuous operating temperatures: -90 °C to +200 °C.
- Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.
 - Excellent mechanical strength.

Electrical

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

Standard products

• All colours including translucent. • Stranding of conducting cores: contact us.

Applications

• Cabling for household electrical heating appliances, rotating machines, industrial machines, electronic equipment, rear computer panels, etc.

Options

Other nominal cross-sections: contact us.

Insulation	ETFE "Thin-wall"	FEP	FEP	FEP "Thick-wall"		
Approval	200 °C - 300 V	200 °C - 300 V	200 °C - 300 V	200 °C - 300 V		
Nominal cross-section	Average Nominal thickness diameter*	Average Nominal thickness diameter* of insulation	Average Nominal thickness diameter* of insulation	Average Nominal thickness diameter* of insulation		
AWG (mm²)	(mm) (mm)	(mm) (mm)	(mm) (mm)	(mm) (mm)		
30 0.05	0.15 0.6	0.20 0.7	0.25 0.8	0.33 0.95		
28 0.09	0.15 0.7	0.20 0.8	0.25 0.9	0.33 1.05		
26 0.13	0.15 0.8	0.20 0.9	0.25 1.0	0.33 1.15		
24 0.22	0.15 0.9	0.20 1.0	0.25 1.1	0.33 1.3		
22 0.34	0.15 1.05	0.20 1.15	0.25 1.25	0.33 1.45		
- 0.5	0.15 1.25	0.20 1.3	0.25 1.4	0.33 1.55		
20 0.6	0.15 1.3	0.20 1.4	0.25 1.5	0.33 1.7		
- 0.75	0.15 1.4	0.33 1.75	0.25 1.55	0.33 1.75		
18 0.93	0.15 1.55	0.33 1.9	0.25 1.7	0.33 1.9		
- 1	0.15 1.65	0.33 1.95	0.25 1.8	0.33 1.95		
16 1.34	0.20 1.9	0.33 2.1	0.25 2.0	0.33 2.1		
- 1.5	0.20 1.9	0.33 2.2	0.25 2.0	0.33 2.2		
14 -	0.20 2.25	0.33 2.5	0.25 2.4	0.33 2.7		
- 2.5	0.20 2.45	0.33 2.7	0.25 2.55	0.33 2.7		
12 -	0.25 2.9	0.33 3.2	0.25 2.9	0.33 3.2		
- 4	0.25 3.1	0.33 3.25	0.25 3.1	0.33 3.25		
10 -	0.25 3.6	0.33 3.9	0.25 3.6	0.33 3.9		
- 6	0.25 3.7	0.33 3.9	0.25 3.7	0.33 3.9		
8 -	0.64 5.4					
- 10	0.64 5.7					
6 -	0.64 6.6					
- 16	0.64 6.7					
4 -	0.64 7.8					
- 25	0.64 8.3					
2 35	0.89 10.0					
1 -	0.89 11.0					
- 50	0.89 11.4					
1/0 -	1.14 12.5					
2/0 70	1.14 14.0					
3/0 -	1.14 15.2					
- 95	1.14 15.4					
4/0 -	1.14 16.8					
- 120	1.14 17.1					
Conducting metal	B*CDEF*G	B*CDEF*G	B*CDEG	B*CDEF*G		

Conducting metals

- 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 %

Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring AWM II A/BExternal or Internal wiring

NS Not Specified

VNS Voltage Not Specified

* 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.

: UL approved nominal cross-sections only.

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



	Style no. Insulation		086 hin-wall"		588 in-wall"		PO1		-VW-1 ick-wall"		230 lick-wall"		203 EP		048 ick-wall"
A	pproval	200 °C	- 600 V	200 °C -	- 1 000 V	200 °C -	- 1 000 V								
	section	Average thickness of insulation	Nominal diameter*												
AWG	(mm²)	(mm)	(mm)												
30	0.05	0.25	0.8	0.23	0.75	0.36	1.0	0.51	1.3	0.51	1.3	0.51	1.3	0.64	1.6
28	0.09	0.25	0.9	0.23	0.85	0.36	1.1	0.51	1.4	0.51	1.4	0.51	1.4	0.64	1.7
26	0.13	0.25	1.0	0.23	0.95	0.36	1.2	0.51	1.5	0.51	1.5	0.51	1.5	0.64	1.8
24	0.22	0.25	1.1	0.23	1.05	0.36	1.35	0.51	1.65	0.51	1.65	0.51	1.65	0.64	1.9
22	0.34	0.25	1.25	0.23	1.2	0.36	1.45	0.51	1.85	0.51	1.8	0.51	1.8	0.64	2.05
-	0.5	0.25	1.4	0.23	1.35	0.36	1.65	0.51	1.95	0.51	1.95	0.51	1.95	0.64	2.2
20	0.6	0.25	1.5	0.23	1.45	0.36	1.7	0.51	2.0	0.51	2.0	0.51	2.0	0.64	2.3
	0.75	0.25	1.55	0.23	1.5	0.36	1.8	0.51	2.1	0.51	2.1	0.51	2.1	0.64	2.4
18	0.93	0.25	1.7	0.23	1.65	0.36	2.0	0.51	2.25	0.51	2.25	0.51	2.25	0.64	2.55
	1	0.25	1.8	0.23	1.75	0.36	2.0	0.51	2.3	0.51	2.3	0.51	2.3	0.64	2.6
16	1.34	0.25	2.0	0.23	1.95	0.36	2.2	0.51	2.5	0.51	2.55	0.51	2.5	0.64	2.8
-	1.5	0.25	2.0	0.23	1.95	0.36	2.3	0.51	2.55	0.51	2.55	0.51	2.55	0.64	2.85
14	-	0.25	2.4	0.23	2.35	0.36	2.6	0.51	3.0	0.51	3.0	0.51	3.0	0.64	3.2
-	2.5	0.25	2.55	0.23	2.5	0.36	2.75	0.51	3.0	0.51	3.0	0.51	3.0	0.64	3.3
12	-	0.38	3.2	0.23	2.9	0.36	3.1	0.51	3.4	0.51	3.4	0.51	3.4	0.64	3.6
-	4	0.38	3.35	0.23	3.1	0.36	3.3	0.51	3.6	0.51	3.6	0.51	3.6	0.64	3.9
10	-	0.38	3.8	0.23	3.5	0.36	3.8	0.51	4.0	0.51	4.0	0.51	4.0	0.64	4.3
-	6	0.38	4.0	-		0.36	4.0	0.51	4.3	0.51	4.3	0.51	4.3	0.64	4.5
8	-	0.64	5.4	-		0.51	5.2	0.76	5.3	0.76	5.6	0.76	5.6	-	-
-	10	0.64	5.7	-		0.51	5.4	0.76	5.9	0.76	5.9	0.76	5.9	-	
6	-	0.64	6.6	-		0.51	6.3	0.76	6.8	0.76	6.8	0.76	6.8	-	-
-	16	0.64	6.7	-		0.51	6.6	0.76	7.1	0.76	7.1	0.76	7.1	-	
4	-	0.64	7.8	-		0.51	7.4	0.76	8.0	0.76	8.0	0.76	8.0	-	-
-	25	0.64	8.3			0.51	8.0	0.76	8.5	0.76	8.5	0.76	8.5	-	
2	35	0.89	10.0	-		0.51	9.3	0.76	9.2	0.76	9.2	0.76	9.2	-	-
1	-	0.89	11.0	-		0.76	10.7	1.14	11.2	1.14	11.2	1.14	11.2	-	-
-	50	0.89	11.4	-		0.76	11.1	1.14	12.0	1.14	12.0	1.14	12.0	-	-
1/0	-	1.14	12.5	-		0.76	11.7	1.14	12.5	1.14	12.5	1.14	12.5		
2/0	70	1.14	14.0	-		0.76	12.8	1.14	14.0	1.14	14.0	1.14	14.0	-	
3/0	-	1.14	15.2	-		0.76	14.4	1.14	15.2	1.14	15.2	1.14	15.2		-
-	95	1.14	15.4	-		0.76	14.6	1.14	15.4	1.14	15.4	1.14	15.4	-	
4/0	-	1.14	16.8		-	0.76	16.0	1.14	16.8	1.14	16.8	1.14	16.8		
-	120	1.14	17.1	-		0.76	16.3	1.14	17.1	1.14	17.1	1.14	17.1		
Conduct	ting metal	B*CE	DEF*G	B*CD	EF*G	B*CE	DEF*G	B*CE	EF*G	B*CE	DEF*G	B*CE	DEF*G	B*C	DEG

Conducting metals

- B Tin-plated copper
 B* Tin-plated copper (ø > 0.38 mm)
 C Nickel-plated copper
- 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

* 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.

NS Not Specified
VNS Voltage Not Specified

: UL approved nominal cross-sections only.

For this product, please contact:

OMERIN division principale 🗹

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FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 250 °C

Fluoropolymer insulation **UL** and cUL approval



Style no.

Insulation

10486 PFA

1 • Bare, tin-plated, nickel-plated or silver-plated copper core.

1882 PFA

Insulation: Fluorinated polymer.

300V FT1 SILIFLON 250C

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.
 - "Horizontal flame test" as per UL approval. "FT1 flame rating" as per cUL approval. VW-1 approval for Style 1727.
 - **Characteristics**
- Continuous operating temperatures: -90 °C to +250 °C.
- Excellent resistance to aggressive chemical environments.
 - · Excellent resistance to humidity and UV.
 - Excellent mechanical strength.

Electrical

General

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

Standard products

- · All colours including translucent.
- Stranding of conducting cores: contact us.

Applications

· Cabling for household electrical heating appliances, rotating machines, industrial machines, electronic equipment, rear computer panels, etc.

Options

· Other nominal cross-sections: contact us

msolation				h.			h.		
4	Approval	250 °C	- VNS		250 °C	- 150 V		250 °C	- 300 V
	minal -section	Average thickness of insulation	Nominal diameter*		Average thickness of insulation	Nominal diameter*		Average thickness of insulation	Nominal diameter*
AWG	(mm²)	(mm)	(mm)		(mm)	(mm)		(mm)	(mm)
30	0.05	0.15	0.6		0.25	0.8		0.23	0.75
28	0.09	0.15	0.7		0.25	0.9		0.23	0.85
26	0.13	0.15	0.8		0.25	1.0		0.23	0.95
24	0.22	0.15	0.9		0.25	1.1		0.23	1.1
22	0.34	0.15	1.05		0.25	1.25		0.23	1.2
	0.5	0.15	1.2		0.25	1.4		0.23	1.4
20	0.6	0.15	1.3		0.25	1.5		0.23	1.5
	0.75	-			0.25	1.55		0.23	1.55
18	0.93	-			0.25	1.8		0.23	1.75
-	1	-	-		0.25	1.8		0.23	1.75
16	1.34	-	-		0.25	2.0		0.23	2.0
-	1.5	-			0.25	2.0		0.23	2.0
14	-	-	-		-	-		0.23	2.3
-	2.5	-			-	-		0.23	2.5
12	-	-	-		-	-		0.23	2.8
	4	-	-		-			0.23	3.05
10	-	-	-		-	-		0.23	3.6
-	6	-	-		-	-		0.23	3.65
8	-	-	-		-	-		0.51	5.2
-	10	-	-		-	-		0.51	5.4
6	-	-	-		-	-		0.51	6.3
-	16	-	-		-	-		0.51	6.6
4	-	-	-		-	-		0.76	8.0
-	25	-	-		-	-		0.76	8.5
2	35	-	-		-	-		0.76	9.6
1	-	-			-			1.14	11.2
-	50	-	-		-	-		1.14	12.0
1/0	-	-	-		-			1.14	12.5
2/0	70	-			-			1.14	14.0
3/0	-							1.14	15.2
-	95							1.14	15.4
4/0	-							1.14	16.8
-	120	-	-		-	-		1.14	17.1
Condu	cting metal	CI	G		CI	EG		C	EG

Conducting metals

- 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 %

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

* 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.

: UL approved nominal cross-sections only.

For this product, please contact:

OMERIN division principale 🗹

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	Style no. Insulation		10410 MFA		1726 PFA		
		Approval	250 °C	- 300 V	250 °C	- 300 V	
	Nominal cross-section		Average Nominal thickness diameter* of insulation		Average thickness of insulation	Nominal diameter*	
	AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	
	30	0.05	0.25	0.8	0.33	0.95	
	28	0.09	0.25	0.9	0.33	1.05	
	26	0.13	0.25	1.0	0.33	1.15	
	24	0.22	0.25	1.1	0.33	1.3	
	22	0.34	0.25	1.25	0.33	1.45	
	-	0.5	0.25	1.4	0.33	1.6	
	20	0.6	0.25	1.5	0.33	1.65	
	-	0.75	0.25	1.55	0.33	1.75	
	18	0.93	0.25	1.8	0.33	1.9	
	-	1	0.25	1.8	0.33	1.95	
	16	1.34	0.25	2.0	0.33	2.2	
	-	1.5	0.25	2.0	0.33	2.2	
	14	-	0.25	2.4	0.33	2.6	
	-	2.5	0.25	2.55	0.33	2.7	
	12	-	0.25	2.9	0.33	3.2	
	-	4	0.25	3.1	0.33	3.25	
	10	-	0.25	3.6	0.33	3.9	
	-	6	0.25	3.7	0.33	3.9	
	8	-	-		0.51	5.2	
	-	10	-	-	0.51	5.4	
	6	-	-	-	0.51	6.3	
	-	16	-	-	0.51	6.6	
	4	-	-	-	0.76	8.0	
	-	25	-	-	0.76	8.5	
	2	35	-	-	0.76	9.6	
	1	-			1.14	11.2	
	1 (0	50	-	-	1.14	12.0	
	1/0	-			1.14	12.5	
	2/0	70	-	-	1.14	14.0	
	3/0	-	-	-	1.14	15.2	
	1.10	95	-	-	1.14	15.4	
	4/0	100	-	-	1.14	16.8	
	-	120			1.14	17.1	
(Condu	cting metal	CI	EG	С	EG	

10297 MFA "Thin-wall"		10362 PFA "Thin-wall"			1727-VW-1		10300 MFA		
250 °C	- 600 V								
Average thickness of insulation (mm)	Nominal diameter*								
(111111)	(111111)	` '	. ,	, ,	` '	, ,	, ,		
0.05		0.25	0.8	0.51	1.3	0.51	1.3		
0.25 0.25	0.9	0.25	0.9	0.51	1.4	0.51	1.4		
0.25	1.1	0.25	1.1	0.51	1.65	0.51	1.65		
0.25	1.1	0.25	1.25	0.51	1.8	0.51	1.8		
0.25	1.4	0.25	1.4	0.51	1.95	0.51	1.95		
0.25	1.5	0.25	1.5	0.51	2.0	0.51	2.0		
0.25	1.55	0.25	1.55	0.51	2.1	0.51	2.1		
0.25	1.8	0.25	1.8	0.51	2.2	0.51	2.2		
0.25	1.8	0.25	1.8	0.51	2.3	0.51	2.3		
0.25	2.0	0.25	2.0	0.51	2.45	0.51	2.45		
0.25	2.0	0.25	2.0	0.51	2.65	0.51	2.5		
0.25	2.4	0.25	2.4	0.51	2.85	0.51	2.85		
0.25	2.55	0.25	2.55	0.51	3.0	0.51	3.0		
0.25	2.9	0.25	2.9	0.51	3.4	0.51	3.4		
0.25	3.1	0.25	3.1	0.51	3.6	0.51	3.6		
0.25	3.6	0.25	3.6	0.51	4.2	0.51	4.2		
0.25	3.7	0.25	3.7	0.51	4.3	0.51	4.3		
0.25	4.6	0.76	5.8	0.76	5.7	0.76	5.7		
0.25	4.9	0.76	5.9	0.76	5.9	0.76	5.9		
0.25	5.8	0.76	6.8	0.76	6.8	0.76	6.8		
0.25	6.1	0.76	7.1	0.76	7.1	0.76	7.1		
0.25	6.9	0.76	8.0	0.76	8.0	0.76	8.0		
0.25	7.5	0.76	8.5	0.76	8.5	0.76	8.5		
-	-	0.76	9.6	0.76	9.6	0.76	9.6		
	-	1.14	11.2	1.14	11.2	1.14	11.2		
	-	1.14	12.0	1.14	12.0	1.14	12.0		
	-	1.14	12.5	1.14	12.5	1.14	12.5		
-	-	1.14	14.0	1.14	14.0	1.14	14.0		
-		1.14	15.2	1.14	15.2	1.14	15.2		
-	-	1.14	15.4	1.14	15.4	1.14	15.4		
-	-	1.14	16.8	1.14	16.8	1.14	16.8		
		1.14	17.1	1.14	17.1	1.14	17.1		
C	EG	CI	EG	CI	EG	С	EG		

10371 PFA "Thin-wall 250 °C - 1000 V (cUL 600 V)

(mm)

1.3

1.4

1.65

1.95 2.0

2.2

2.45 2.55

3.0

3.4

4.2

4.3

5.9

7.1

8.5

11.2

15.2

16.8 17.1

CEG

120

8.0

Average thickness of insulation (mm)

0.51

0.51

0.51

0.51 0.51

0.51

0.51 0.51 0.51

0.51 0.51

0.51

0.51

0.76

0.51

0.76

0.76 0.76

0.76

0.76

1 14

1.14 1.14

1.14

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 %

A I MWA 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.

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KZ 04 -55 °C to +200 °C

2 2 1

- 1 Concentric silver-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

 Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

 Compliance with the American standard ANSI NEMA HP3: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +200 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical (as per UTE C 93-523)

- Rated voltage: 250 Vac 350 Vdc.
- Test voltage: 2500 V.

Standard products

Standard insulation colours: all solid colours.

KZ 04

	C	ONCENTRIC CO	INSULAT	ED WIRE	
Non cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	546	0.53	0.7
30	0.055	7 x 0.10	349	0.61	1.0
28	0.093	7 x 0.13	201	0.68	1.4
26	0.14	7 x 0.16	132	0.79	2.0
24	0.22	7 x 0.20	86	0.91	2.8
22	0.34	7 x 0.25	54.4	1.06	4.1
20	0.60	19 x 0.20	31.3	1.35	7.3

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KZ 05 -55 °C to +200 °C



- 1 Concentric silver-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

· Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

· Compliance with the American standard ANSI NEMA HP3: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +200 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical (as per UTE C 93-523)

- Rated voltage: 600 Vac 850 Vdc.
- Test voltage: 3400 V.

Standard products

• Standard insulation colours: all solid colours.

KZ 05

		CONCENTRIC COR	INSULATI	ED WIRE	
Non cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	546	0.73	1.3
30	0.055	7 x 0.10	349	0.81	1.5
28	0.093	7 x 0.13	201	0.90	2.0
26	0.14	7 x 0.16	132	1.00	2.6
24	0.22	7 x 0.20	86	1.13	3.6
22	0.34	7 x 0.25	54.4	1.27	5.0
20	0.60	19 x 0.20	31.3	1.52	7.8
18	0.93	19 x 0.25	20.5	1.80	11.6
16	1.34	19 x 0.30	13.9	2.10	16.5
14	1.91	27 x 0.30*	10	2.48	22.3
12	3.18	45 x 0.30*	6	3.06	35.7

^{*} Non-concentric cores.

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KZ 06 -55 °C to +200 °C

2

- 1 Concentric silver-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

· Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

· Compliance with the American standard ANSI NEMA HP3: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +200 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical (as per UTE C 93-523)

- Rated voltage: 1000 Vac 1400 Vdc.
- Test voltage: 5000 V.

Standard products

Standard insulation colours: all solid colours.

KZ 06

	C	ONCENTRIC CO	INSULATED WIRE		
Nom cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	546	0.99	2.3
30	0.055	7 x 0.10	349	1.05	2.5
28	0.093	7 x 0.13	201	1.14	3.0
26	0.14	7 x 0.16	132	1.24	3.7
24	0.22	7 x 0.20	86	1.37	4.7
22	0.34	7 x 0.25	54.4	1.53	6.2
20	0.60	19 x 0.20	31.3	1.76	9.1
18	0.93	19 x 0.25	20.5	2.05	12.6
16	1.34	19 x 0.30	13.9	2.25	17.1
14	1.91	27 x 0.30*	10	2.70	25.3
12	3.18	45 x 0.30*	6	3.35	38.7

^{*} Non-concentric cores.

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KZ 07 -55 °C to +260 °C

2 2 1

- 1 Concentric nickel-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

 Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

 Compliance with the American standard ANSI NEMA HP3: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +260 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical (as per UTE C 93-523)

- Rated voltage: 250 Vac 350 Vdc.
- Test voltage: 2500 V.

Standard products

Standard insulation colours: all solid colours.

KZ 07

	C	ONCENTRIC CO	INSULAT	ED WIRE	
Nom cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	612	0.53	0.7
30	0.055	7 x 0.10	391	0.61	1.0
28	0.093	7 x 0.13	225	0.68	1.4
26	0.14	7 x 0.16	148	0.79	2.0
24	0.22	7 x 0.20	96.5	0.91	2.8
22	0.34	7 x 0.25	60.8	1.06	4.1
20	0.60	19 x 0.20	35	1.35	7.3

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KZ 08 -55 °C to +260 °C



- 1 Concentric nickel-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

· Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

· Compliance with the American standard ANSI NEMA HP3: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +260 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical (as per UTE C 93-523)

- Rated voltage: 600 Vac 850 Vdc.
- Test voltage: 3400 V.

Standard products

Standard insulation colours: all solid colours.

KZ 08

	C	ONCENTRIC COF	INSULAT	ED WIRE	
Non cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	612	0.73	1.3
30	0.055	7 x 0.10	391	0.81	1.5
28	0.093	7 x 0.13	225	0.90	2.0
26	0.14	7 x 0.16	148	1.00	2.6
24	0.22	7 x 0.20	96.5	1.13	3.6
22	0.34	7 x 0.25	60.8	1.27	5.0
20	0.60	19 x 0.20	35	1.52	7.8
18	0.93	19 x 0.25	23	1.80	11.6
16	1.34	19 x 0.30	15.6	2.10	16.5
14	1.91	27 x 0.30*	11.2	2.48	22.3
12	3.18	45 x 0.30*	6.7	3.06	35.7

^{*} Non-concentric cores.

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KZ 09 -55 °C to +260 °C



- 1 Concentric nickel-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

· Wires used in aeronautical and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences.

Options

· Compliance with the American standard ANSI NEMA HP3: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +260 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical (as per UTE C 93-523)

- Rated voltage: 1000 Vac 1400 Vdc.
- Test voltage: 5000 V.

Standard products

Standard insulation colours: all solid colours.

KZ 09

	C	ONCENTRIC COR	INSULAT	ED WIRE	
Nom cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	612	0.99	2.3
30	0.055	7 x 0.10	391	1.05	2.5
28	0.093	7 x 0.13	225	1.14	3.0
26	0.14	7 x 0.16	148	1.24	3.7
24	0.22	7 x 0.20	96.5	1.37	4.7
22	0.34	7 x 0.25	60.8	1.53	6.2
20	0.60	19 x 0.20	35	1.76	9.1
18	0.93	19 x 0.25	23	2.05	12.6
16	1.34	19 x 0.30	15.6	2.25	17.1
14	1.91	27 x 0.30*	11.2	2.70	25.3
12	3.18	45 x 0.30*	6.7	3.35	38.7

^{*} Non-concentric cores.

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® CN5YS and A5YS

VDE approval

-90 °C to +250 °C

Approvals - standards

VDE approval as per standard DIN VDE 0250 Part 106 - Licence no. 40005809.



- 1 Flexible nickel-plated (ref. CN5YS) or silver-plated (ref. A5YS) copper core-class 5 as per IEC 60228 / DIN VDE 0295.
- 2 Insulation: Crossed and heat-sealed PFTE tapes.

Applications

- · Cabling in household electrical appliances, electronics. · Lighting, lights
- Cabling in hot or very cold environments (cryogenics). Cabling in aggressive environments
 - (humidity, chemicals, etc.). • Cabling requiring compact size and excellent mechanical strength.

Options

• Other colours: contact us. • Other cores available: Rigid nickel-plated (ref. RCN5YS) or rigid silver-plated (ref. RA5YS) copper core - class 1 as per IEC 60228 / DIN VDE 0295.

Characteristics General

- Continuous operating temperatures:
 - > Silver-plated copper core: -90 °C to +200 °C
 - > Nickel-plated copper core: -90 °C to +250 °C.
- Excellent resistance to aggressive chemical environments.

VDE-Reg-Nr 7830

- Excellent resistance to humidity.
- Excellent resistance to hydrocarbons and fluids.

Electrical

• Rated voltage: 300/500 V. • Test voltage: 2000 V.

Standard products

Standard insulation colour: white.

CN5YS and A5YS

Flexible	core • class 5 as per l	INSULATED WIRE			
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25*	19 x 0.13	89.3	0.30	1.25	4.3
0.5	16 x 0.20	40.1	0.30	1.55	7.1
0.75	24 x 0.20	26.7	0.30	1.8	10.6
1	32 x 0.20	20.0	0.30	1.9	13.2
1.5	30 x 0.25	13.7	0.30	2.2	16.6
2.5	50 x 0.25	8.21	0.35	2.8	26.7
4	56 x 0.30	5.09	0.40	3.3	41.6
6	84 x 0.30	3.39	0.40	3.9	60.5

^{*} Nominal cross-section not described in IEC 60228

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® Style 10506 **PTFE** insulation **UL** and cUL approval -90 °C to +250 °C

SILIFLON 250C 10506 91 AWM

- 1 Multistrand nickel-plated copper core.
- 2 Insulation: PTFE tape(s).

Approvals - standards

- Nickel-plated copper complying with the 2% class as per standard ASTM B355.
- UL approval as per standard UL 758 File no.: E101965. • cUL approval (CSA) as per standard C22.2 No. 210 -
 - File no.: E101965. • "Horizontal flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.

Applications

• Internal cabling for electrical or electronic appliances.

Options

- Pure nickel core: contact us.
- 27% nickel-plated copper core: contact us.
 - Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
 Other style no. available: style 10487 with PTFE tape + glass tape(s) based insulation.

Characteristics General

C ALL US

- Continuous operating temperatures: -90 °C to +250 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

 Rated voltage: 600 V. Test voltage: 2000 V.

Standard products

Standard insulation colours: all solid colours.

Style 10506

.,								
М	ULTISTRA	ND CORE	INSULATED WIRE					
	ninal section (mm²)	Nominal stranding*	Nominal thickness of insulation (mm)	Nominal diameter** (mm)	Approximate linear weight (kg/km)			
30	0.05	7 x 0.10	0.15	0.66	1.1			
28	0.09	7 x 0.13	0.15	0.76	1.6			
26	0.14	7 x 0.16	0.15	0.86	2.1			
24	0.22	7 x 0.20	0.15	0.99	3.0			
22	0.34	7 x 0.25	0.15	1.16	4.4			
-	0.5	7 x 0.30	0.15	1.30	6.1			
20	0.6	19 x 0.20	0.15	1.38	7.0			
-	0.75	24 × 0.20	0.15	1.51	8.7			
18	0.93	19 x 0.25	0.18	1.70	10.9			
-	1	32 x 0.20	0.18	1.76	11.7			
16	1.34	19 x 0.30	0.18	1.96	15.1			
-	1.5	30 x 0.25	0.18	2.05	16.5			
14	-	29 x 0.30	0.18	2.33	22.3			
-	2.5	50 x 0.25	0.18	2.53	26.5			
12	-	46 x 0.30	0.18	2.98	34.9			
-	4	56 x 0.30	0.18	3.25	42.1			

For this product, please contact:

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- * The most common nominal stranding. Some stranding is not available in all types of conductor metals. Other stranding can be produced taking into account the possibilities permitted by standard UL 758 and/or IEC 60228.
- ** 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.

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® HT Ignition wires -90 °C to +260 °C

- 1 Bare, tin-plated, nickel-plated or silver-plated copper core.
- 2 Insulation: Fluorinated polymer.

Applications

 Ignition circuit, creation of an electric arc for piezo-electric system of household electric appliances, burners, etc.

Options

- Pure nickel core: contact us.Outer electrical shielding:
- > Tin-plated copper braid: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other colours: contact us.

Characteristics General

- Continuous operating temperatures:
 - > ETFE insulation: $-90 \, ^{\circ}\text{C}$ to $+155 \, ^{\circ}\text{C}$.
 - > FEP insulation: -90 °C to +205 °C.
 - > MFA insulation: -90 °C to +250 °C.
 - > PFA insulation: -90 °C to +260 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

Pulse voltage: from 12 to 30 kV.

Standard products

- Main products: see table below.
- Standard insulation colours: translucent or white.

Core	Insulation ETFE	Insulation FEP	Insulation MFA	Insulation PFA
In bare copper	ETFE-HT	FEP-HT	MFA-HT	PFA-HT
In tin-plated copper	EETFE-HT	EFEP-HT	EMFA-HT	EPFA-HT
In silver-plated copper	AETFE-HT	AFEP-HT	AMFA-HT	APFA-HT
In nickel-plated copper	CNETFE-HT	CNFEP-HT	CNMFA-HT	CNPFA-HT

INSULATED WIRE - Voltage*

C	ONDUCTI	NG CORE										
			12	2 KV	15 KV		20 KV		25 KV		30 KV	
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal diameter	Approximate linear weight								
(mm²)		(Ω/km) (tin-plated copper core)	(mm)	(kg/km)								
0.22	7 x 0.20	92.5	1.4	4.7	1.5	5.2	1.7	6.3	1.8	6.8	2.0	8.1
0.34	7 x 0.25	59.2	1.6	6.5	1.7	7.0	1.8	7.6	2.0	8.9	2.2	10.3
0.5	16 x 0.20	40.1	1.7	8.1	1.8	8.7	1.9	9.3	2.1	10.7	2.3	12.2
0.6	19 x 0.20	33.7	1.8	9.3	1.9	9.9	2.0	10.6	2.2	12.0	2.4	13.6
0.75	24 x 0.20	26.7	1.9	10.9	2.0	11.6	2.1	12.3	2.3	13.8	2.5	15.4
0.93	19 x 0.25	21.6	2.0	12.8	2.1	13.5	2.3	14.9	2.4	15.7	2.6	17.4
1	32 x 0.20	20.0	2.1	13.9	2.2	14.6	2.3	15.4	2.5	17.0	2.7	18.8
1.34	19 x 0.30	15.0	2.3	17.6	2.4	18.4	2.5	19.2	2.7	21.0	2.8	21.9
1.5	30 x 0.25	13.7	2.4	19.2	2.4	19.2	2.6	20.9	2.7	21.8	2.9	23.6
2.5	50 x 0.25	8.21	2.8	29.0	2.9	29.9	3.0	30.9	3.2	33.0	3.3	34.1

For this product, please contact:

omerin@omerin.com

* Pulse voltage

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® HT

Ignition wires **UL and cUL approval**



N 200C 1813 TA AWM

10185-E200

- Bare, tin-plated, nickel-plated or silver-plated copper core.
- 2 Insulation: Fluorinated polymer.

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.
 "Horizontal flame test" as per UL approval.
 "FT1 flame rating" as per cUL approval.

Applications

Ignition circuit, creation of an electric arc for piezo-electric system of household electric appliances, burners, etc.

Options

10185-E150

- Pure nickel core: contact us. • 27% nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.

Style no.

Characteristics

General

- Continuous operating temperatures: -90 °C to +250 °C.
 Excellent resistance to aggressive chemical environments.

1813

- Excellent resistance to humidity and UV.
- · Excellent mechanical strength.

Electrical

• Pulse voltage: as per style no. except style 1813.

Standard products

1911-F150

- All colours including translucent.
- Stranding of conducting cores: contact us.

Siyle no.			10103	J-E 130	1711-1130			
	A	pproval		10 KV AC** 500 V)	150 °C - 20 KV DC** (cUL 1000 V)			
	Nominal cross-section AWG (mm²)		Average thickness of insulation (mm)	thickness diameter* of nsulation		Nominal diameter*		
	30	0.05		-	(mm)	. ,		
	28	0.09						
	26	0.13	-	-				
	24	0.22	0.36	1.4	0.48	1.6		
	22	0.34	0.36	1.5	0.48	1.75		
	-	0.5	0.36	1.65	0.48	1.9		
	20	0.6	0.36	1.7	0.48	2.0		
	-	0.75	0.36	1.85	0.48	2.1		
	18	0.93	0.36	2.0	0.48	2.2		
	-	1	0.36	2.05	0.48	2.25		
	16	1.34	0.36	2.2	0.48	2.5		
	-	1.5	0.36	2.3	0.48	2.55		
	14	-	0.36	2.6	0.48	2.9		
	-	2.5	0.36	2.8	0.48	3.0		
	12	-	0.36	3.1	0.48	3.35		

3.4

3.8

3.9

BCDEFG

0.36

0.36

0.36

10

Conducting metal

	- 3000 V	200 °C - 10 KV AC** (cUL 150°C -600 V)				
Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*			
0.64	1.6	-	-			
0.64	1.7	-	-			
0.64	1.8	-	-			
0.64	1.9	0.36	1.4			
0.64	2.05	0.36	1.5			
0.64	2.2	0.36	1.65			
0.64	2.3	0.36	1.7			
0.64	2.4	0.36	1.85			
0.64	2.55	0.36	2.0			
0.64	2.6	0.36	2.05			
0.64	2.8	0.36	2.2			
0.64	2.9	0.36	2.3			
0.64	3.15	0.36	2.6			
0.64	3.35	0.36	2.8			
0.64	3.65	0.36	3.1			
0.64	3.9	0.36	3.4			
0.64	4.3	0.36	3.8			
0.64	4.5	0.36	3.9			
B*C	DEFG	B*C[DEF*G			

250 °C - 2	20 KV DC**
of	Nominal diameter*
insulation (mm)	(mm)
-	-
-	-
-	-
0.61	1.8
0.61	1.95
0.61	2.15
0.61	2.15
0.61	2.35
0.61	2.5
0.61	2.55
0.61	2.7
0.61	2.8
0.61	3.0
0.61	3.3
0.61	3.6
0.61	3.85
0.61	4.25
0.61	4.4
С	EG

1911-F250

KEY

Conducting metals

0.48

0.48

0.48

3.6

4.0

4.2

BCDEFG

- B Tin-plated copper
 B* Tin-plated copper (Ø > 0.38 mm)
 C Nickel-plated copper
 D Silver-plated copper
- Nickel
- Bare copper
 - Bare copper (ø > 0.38 mm)
- G Nickel-plated copper 27 %

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.

 ** Pulse voltage.

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

For this product, please contact:

OMERIN division principale 🗹

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LES CABLES DE L'EXTREME

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® M6-E6 -90 °C to +205 °C



- 1 Flexible tin-plated copper core class 5 as per IEC 60228 2 Insulation: Fluorinated polymer FEP.
- 3 Outer sheath: Fluorinated polymer FEP.

Applications

- · Cabling in household electrical appliances, electronics. Cabling in hot or cold environments (cryogenics).
 - · Cabling in aggressive environments (humidity, chemicals, etc.).
 - Cabling requiring compact size and excellent mechanical strength.
 - Cabling of thermoresistant detectors type PT 100.

Options

- Bare copper core: ref. M6-6.
- Silver-plated copper core: ref. M6-A6.
- Nickel-plated copper core: ref. M6-CN6.
- Pure nickel core (not described in IEC 60228): ref. M6-N6.
- PFA fluorinated polymer insulation and sheathing for continuous operating temperatures up to +260°C: ref. M5-E5.
- ETFE fluorinated polymer insulation and sheathing for continuous operating temperatures up to +155 °C: ref. M7-E7.
 - Other nominal metric or American
 - cross-sections: contact us.
 - Other numbers of conductors: contact us.
 - · Other nominal stranding: contact us.
 - Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.

Characteristics General

- Continuous operating temperatures: -90°C to +205 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

• Rated voltage: 300/500 V. • Test voltage: 2000 V.

Standard products

- Standard conductor colours: all solid colours including yellow/green.
- Standard outer sheath colours: grey, white or black.

For this product, please contact:

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Flexible co	ore • class 5 as p	per IEC 60228	INSULATED CO	ONDUCTORS	SHEATHED CABLE		
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter	Nominal diameter	Approximate linear weight	
(mm²)		(22/KM)	(mm)	(mm)	(mm)	(kg/km)	
2 x 0.5	16 x 0.20	40.1	0.20	1.3	3.1	17.0	
3 x 0.5	16 x 0.20	40.1	0.20	1.3	3.3	23.3	
4 x 0.5	16 x 0.20	40.1	0.20	1.3	3.6	29.6	
5 x 0.5	16 x 0.20	40.1	0.20	1.3	4.1	38.0	
7 x 0.5	16 x 0.20	40.1	0.20	1.3	4.5	51.1	
2 x 0.75	24 x 0.20	26.7	0.20	1.45	3.4	22.1	
3 x 0.75	24 x 0.20	26.7	0.20	1.45	3.6	30.5	
4 x 0.75	24 x 0.20	26.7	0.20	1.45	4.0	39.9	
5 x 0.75	24 x 0.20	26.7	0.20	1.45	4.6	51.8	
7 x 0.75	24 x 0.20	26.7	0.20	1.45	5.0	69.0	
2 x 1	32 x 0.20	20.0	0.20	1.7	3.9	28.8	
3 x 1	32 x 0.20	20.0	0.20	1.7	4.2	41.0	
4 x 1	32 x 0.20	20.0	0.20	1.7	4.6	52.7	
5 x 1	32 x 0.20	20.0	0.20	1.7	5.3	68.5	
7 x 1	32 x 0.20	20.0	0.20	1.7	5.7	90.2	
2 x 1.5	30 x 0.25	13.7	0.20	1.95	4.4	38.7	
3 x 1.5	30 x 0.25	13.7	0.20	1.95	4.7	54.9	
4 x 1.5	30 x 0.25	13.7	0.20	1.95	5.3	73.6	
5 x 1.5	30 x 0.25	13.7	0.20	1.95	5.9	91.3	
7 x 1.5	30 x 0.25	13.7	0.20	1.95	6.6	127	
2 x 2.5	50 x 0.25	8.21	0.20	2.5	5.6	63.3	
3 x 2.5	50 x 0.25	8.21	0.20	2.5	6.2	94.5	
4 x 2.5	50 x 0.25	8.21	0.20	2.5	6.8	122	
5 x 2.5	50 x 0.25	8.21	0.20	2.5	7.6	152	
7 x 2.5	50 x 0.25	8.21	0.20	2.5	8.4	208	
2 x 4	56 x 0.30	5.09	0.25	3.1	7.2	102	
3 x 4	56 x 0.30	5.09	0.25	3.1	7.9	149	
4 × 4	56 x 0.30	5.09	0.25	3.1	8.7	192	
5 x 4	56 x 0.30	5.09	0.25	3.1	9.6	235	
7 x 4	56 x 0.30	5.09	0.25	3.1	10.9	333	
2 x 6	84 x 0.30	3.39	0.35	3.9	9.0	162	
3 x 6	84 x 0.30	3.39	0.35	3.9	9.6	228	
4 x 6	84 x 0.30	3.39	0.35	3.9	10.8	303	
5 x 6	84 x 0.30	3.39	0.35	3.9	12.1	380	
7 x 6	84 x 0.30	3.39	0.35	3.9	13.7	532	

For this product, please contact:

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FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® M6BE-E6 -90 °C to +205 °C



- 1 Flexible tin-plated copper core class 5 as per IEC 60228
- 2 Insulation: Fluorinated polymer FEP.
- 3 Electrical shielding: Tin-plated copper braid.4 Outer sheath: Fluorinated polymer FEP.

Applications

- · Cabling for electrical heating appliances.
 - · Use in the medical field as cabling for sterilisable surgical instruments.
 - All power cords requiring resistance to alternate bendings.
- Cabling of thermoresistant detectors type PT 100.

Options

- Bare copper core: contact us.
- Silver-plated copper core: contact us.
- Nickel-plated copper core: contact us.
- Pure nickel core (not described in IEC 60228): contact us.
- Electrical shielding made of an aluminium tape + continuity wire (ref. M6BAL-E6): contact us.
- PFA fluorinated polymer insulation and sheathing for continuous operating temperatures up to +260°C: ref. M5BE-E5.
- ETFE fluorinated polymer insulation and sheathing for continuous operating temperatures up to +155 °C: ref. M7BE-E7.
 - Other nominal metric or American
 - cross-sections: contact us. • Other numbers of conductors: contact us.
 - Other nominal stranding: contact us.
 - Other colours: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics General

- Continuous operating temperatures: -90 °C to +205 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

• Rated voltage: 300/500 V. Test voltage: 2000 V.

Standard products

- Standard conductor colours: all solid colours including yellow/green.
- Standard outer sheath colours: grey, white or black.

For this product, please contact:

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Flexible co	ore • class 5 as	per IEC 60228	INSULATED CO	ONDUCTORS	SHEATHED CABLE		
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight	
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)	
2 x 0.5	16 x 0.20	40.1	0.20	1.3	3.6	30.0	
3 x 0.5	16 x 0.20	40.1	0.20	1.3	3.8	37.3	
4 x 0.5	16 x 0.20	40.1	0.20	1.3	4.1	45.0	
5 x 0.5	16 x 0.20	40.1	0.20	1.3	4.6	55.2	
7 x 0.5	16 x 0.20	40.1	0.20	1.3	4.9	68.3	
2 x 0.75	24 x 0.20	26.7	0.20	1.45	3.8	35.2	
3 x 0.75	24 x 0.20	26.7	0.20	1.45	4.0	44.4	
4 x 0.75	24 x 0.20	26.7	0.20	1.45	4.5	56.9	
5 x 0.75	24 x 0.20	26.7	0.20	1.45	5.0	69.1	
7 x 0.75	24 x 0.20	26.7	0.20	1.45	5.6	95.6	
2 x 1	32 x 0.20	20.0	0.20	1.7	4.6	48.4	
3 x 1	32 x 0.20	20.0	0.20	1.7	4.8	60.4	
4 x 1	32 x 0.20	20.0	0.20	1.7	5.1	72.3	
5 x 1	32 x 0.20	20.0	0.20	1.7	5.6	90.7	
7 x 1	32 x 0.20	20.0	0.20	1.7	6.4	123	
2 x 1.5	30 x 0.25	13.7	0.20	1.95	4.8	55.8	
3 x 1.5	30 x 0.25	13.7	0.20	1.95	5.4	78.5	
4 x 1.5	30 x 0.25	13.7	0.20	1.95	6.2	108	
5 x 1.5	30 x 0.25	13.7	0.20	1.95	6.8	130	
7 x 1.5	30 x 0.25	13.7	0.20	1.95	7.6	172	
2 x 2.5	50 x 0.25	8.21	0.20	2.5	6.4	97.6	
3 x 2.5	50 x 0.25	8.21	0.20	2.5	6.8	127	
4 × 2.5	50 x 0.25	8.21	0.20	2.5	7.5	160	
5 x 2.5	50 x 0.25	8.21	0.20	2.5	8.5	201	
7 x 2.5	50 x 0.25	8.21	0.20	2.5	9.2	259	
2 × 4	56 x 0.30	5.09	0.25	3.1	7.7	138	
3 x 4	56 x 0.30	5.09	0.25	3.1	8.4	187	
4 × 4	56 x 0.30	5.09	0.25	3.1	9.3	238	
5 x 4	56 x 0.30	5.09	0.25	3.1	10.1	282	
7 x 4	56 x 0.30	5.09	0.25	3.1	11.5	394	
2 x 6	84 x 0.30	3.39	0.35	3.9	9.5	205	
3 x 6	84 x 0.30	3.39	0.35	3.9	10.1	275	
4 x 6	84 x 0.30	3.39	0.35	3.9	11.5	363	
5 x 6	84 x 0.30	3.39	0.35	3.9	13.1	466	
7 x 6	84 x 0.30	3.39	0.35	3.9	14.3	608	

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® KU 03, KU 04 KU 05 and KU 06 -55 °C to +150 °C

KU 03 (pair) or KU 04 (triple) KU 05 (pair) or KU 06 (triple) 4

- 1 Concentric tin-plated copper core.
- 2 Insulation: Fluorinated polymer ETFE.
- 3 Electrical shielding: Tin-plated copper braid.
- 4 Outer sheath: Fluorinated polymer ETFE.

Approvals - standards

• Inspired from NF C 93-524 standard.

Applications

• Wires used in aeronautical, electronic and all instrumentation applications requiring high resistance to high temperatures and to chemical influences.

Options

• Other colours: contact us.

Characteristics General

- Continuous operating temperatures: -55 °C to +150 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical (as per UTE C 93-524)

• Rated voltage: 600 Vac – 850 Vdc.

• Test voltage: KU 03 and KU 04: 3400 Vac. KU 05 and KU 06: 1500 Vac.

Standard products

- Standard conductor colours of the pair: white and blue.
- Standard conductor colours of the triple: white, blue and orange.
- Standard outer sheath colour: white.

	CON	IDUCTOR	S (TYPE KU (01)								
		KU	KU 03		KU 04		KU 05		KU 06			
	minal section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal diameter	Nominal diameter	Approximate linear weight	Nominal diameter	Approximate linear weight	Nominal diameter	Approximate linear weight	Nominal diameter	Approximate linear weight
AWG	(mm²)		(Ω/km)	(mm)	(mm)	(kg/km)	(mm)	(kg/km)	(mm)	(kg/km)	(mm)	(kg/km)
30	0.05	7 x 0.10	365.4	0.63	1.26	1.8	1.36	2.7	2.10	8.7	2.31	10.2
28	0.09	7 x 0.13	208.0	0.69	1.38	2.6	1.48	3.9	2.22	9.8	2.43	11.6
26	0.15	19 x 0.10	128.7	0.81	1.62	3.8	1.74	5.8	2.47	11.8	2.68	13.9
24	0.25	19 x 0.13	76.6	0.91	1.82	5.7	1.96	8.5	2.76	15.0	2.89	18.5
22	0.38	19 x 0.16	50.3	1.10	2.20	8.5	2.37	12.7	3.14	21.0	3.30	25.3
20	0.60	19 x 0.20	32.1	1.52	3.04	13.9	3.27	20.9	3.97	30.4	4.22	38.4
18	0.93	19 x 0.25	20.6	1.80	3.60	21.2	3.87	31.8	4.54	42.5	4.82	51.3
16	1.34	19 x 0.30	14.3	2.00	4.00	29.1	4.30	43.6	4.94	52.4	5.24	65.9
14	1.82	37 x 0.25	10.6	2.36	4.72	39.4	5.08	59.1	5.72	67.7	6.09	90.9
12	3.00	37 x 0.32	6.5	2.89	5.78	72.9	6.22	109	6.78	114	7.24	146

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 150 °C

Fluoropolymer insulation Fluoropolymer sheathing **UL** and cUL approval



2 NA ANN 11 A/B 150C 300U FT1 SILIFLON 150C 20221 TA ANN

1 • UL and cUL approved conductors with fluoropolymer insulation

20221 F1EA 2022E F1EA

20222 5150

2 • Outer sheath: Fluorinated polymer.

Characteristics General

- · Continuous operating temperatures: -90 °C to +150 °C.
 - · Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
 - · Excellent mechanical strength.

Electrical

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

Standard products

- · Single conductors: UL and cUL approved conductors with fluoropolymer insulation (≥ 150 °C).
- · Standard outer sheath colours: white, black or grey.
 - Stranding of conducting cores: contact us.

Approvals - standards

- UL and cUL approval as per standard UL 758 and C22.2 No. 210 - File no.: E101965.
 - "Horizontal flame test" or "Cable flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.

Applications

• Internal cabling for electrical heating appliances. External connections for electrical heating appliances.

Options

- · Electrical shielding: Tin-plated copper braid,
 - Other outer sheath colours: contact us.
 - Other nominal cross-sections: contact us.
- · Conductors with a silicone insulation : contact us.

or aluminium tape + continuity wire.

KEY	
Conducting	me

- Tin-plated copper
- Tin-plated copper (ø > 0.38 mm) Nickel-plated copper
- Silver-plated copper
- Nickel
- Bare copper
- F* Bare copper (Ø > 0.38 mm)
 G Nickel-plated copper 27 %

Internal wiring, not subject to mechanical abuse AWM I A 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

* The diameter is provided for information $\mbox{\it ply}\mbox{\it poses}$ 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:

OMERIN division principale 🗹

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		Style no. Insulation	ation ETFE "Thin-wall"			5-E150 Thin-wall"	20222-E150 ETFE "Thin-wall"		
		Approval	150 °C	- 300 V	150 °C	- 300 V	150 °C	- 600 V	
				AWM II A/B (Wall 0.25 mm)		AWM II A/B (Wall 0.51 mm)	(1	AWM II A/B Wall 0.38 mm)	
		ominal s-section	Nominal diameter of	Nominal diameter	Nominal diameter of	Nominal diameter	Nominal diameter of	Nominal diameter	
No. of cond.	AWG	(mm²)	the cond.* (mm)	of the cable* (mm)	the cond.* (mm)	of the cable* (mm)	the cond.* (mm)	of the cable* (mm)	
2	26	0.13	0.75	2.0	0.75	2.5	1.05	2.9	
3	26	0.13	0.75	2.1	0.75	2.6	1.05	3.0	
4	26	0.13	0.75	2.3	0.75	2.8	1.05	3.3	
5	26	0.13	0.75	2.6	0.75	3.0	1.05	3.6	
7	26	0.13	0.75	2.9	0.75	3.3	1.05	4.0	
2	24	0.22	0.9	2.3	0.9	2.8	1.15	3.1	
3	24	0.22	0.9	2.4	0.9	3.0	1.15	3.2	
4 5	24 24	0.22	0.9	2.8 3.0	0.9	3.2	1.15	3.5	
7	24	0.22	0.9	3.0	0.9	3.7	1.15	4.3	
2	22	0.34	1.05	2.7	1.05	3.1	1.3	3.4	
4	22	0.34	1.05	2.9	1.05	3.3	1.3	3.6 3.9	
5	22	0.34	1.05	3.4	1.05	3.9	1.3	4.3	
7	22	0.34	1.05	4.0	1.05	4.2	1.3	4.7	
2	_	0.5	1.25	3.1	1.25	3.5	1.4	3.6	
3	-	0.5	1.25	3.3	1.25	3.7	1.4	3.8	
4	-	0.5	1.25	3.8	1.25	4.0	1.4	4.2	
5	-	0.5	1.25	4.2	1.25	4.4	1.4	4.6	
7	-	0.5	1.25	4.6	1.25	4.8	1.4	5.0	
2	20	0.6	1.3	3.2	1.3	3.6	1.5	3.8	
3	20	0.6	1.3	3.4	1.3	3.8	1.5	4.0	
4	20	0.6	1.3	3.9	1.3	4.2	1.5	4.4	
5	20	0.6	1.3	4.3	1.3	4.5	1.5	4.9	
7	20	0.6	1.3	4.7	1.3	4.9	1.5	5.3	
2	-	0.75	1.4	3.4	1.4	3.8	1.55	3.9	
3	-	0.75	1.4	3.8	1.4	4.0	1.55	4.1	
4	-	0.75	1.4	4.2	1.4	4.4	1.55	4.5	
5	-	0.75	1.4	4.6	1.4	4.8	1.55	5.0	
7	-	0.75	1.4	5.0	1.4	5.2	1.55	5.5	
2	18	0.93	1.55	3.9	1.55	4.1	1.8	4.4	
3	18	0.93	1.55	4.1	1.55	4.4	1.8	4.7	
4 5	18	0.93	1.55	4.5	1.55	4.8	1.8	5.1	
7	18 18	0.93 0.93	1.55 1.55	5.0 5.5	1.55 1.55	5.2 5.7	1.8	5.7 6.4	
2	_	1	1.65	4.1	1.65	4.3	1.8	4.4	
3	-	1	1.65	4.1	1.65	4.6	1.8	4.4	
4		1	1.65	4.4	1.65	5.0	1.8	5.1	
5	-	i	1.65	5.3	1.65	5.5	1.8	5.7	
7	-	1	1.65	5.8	1.65	6.0	1.8	6.4	
2	16	1.34	1.9	4.6	1.9	4.8	2.0	4.8	
3	16	1.34	1.9	4.9	1.9	5.1	2.0	5.1	
4	16	1.34	1.9	5.4	1.9	5.6	2.0	5.6	
5	16	1.34	1.9	6.1	1.9	6.2	2.0	6.4	
7	16	1.34	1.9	6.7	1.9	6.7	2.0	7.0	
2	-	1.5	1.9	4.6	1.9	4.8	2.0	4.8	
3	-	1.5	1.9	4.9	1.9	5.1	2.0	5.1	
4	-	1.5	1.9	5.4	1.9	5.6	2.0	5.6	
5	-	1.5	1.9	6.1	1.9	6.2	2.0	6.4	
7	-	1.5	1.9	6.7	1.9	6.7	2.0	7.0	
2	14	-	2.25	5.3	2.25	5.5	2.4	5.6	
3	14	-	2.25	5.7	2.25	5.9	2.4	6.2	
4	14	-	2.25	6.4	2.25	6.4	2.4	6.8	
5	14	-	2.25	7.1	2.25	7.1	2.4	7.5	
7	14		2.25	7.8	2.25	7.8	2.4	8.4	
	Condu	ucting metal	BCI	DEFG	BC	DEFG	BCI	DEFG	

FLUOROPOLYMER INSULATED WIRES AND CABLES

SILIFLON® 200 °C

Fluoropolymer insulation Fluoropolymer sheathing UL and cUL approval



2 PHON I A/B 150C 380U FT1 SILIFLON 150C 20/11 TA AMM

• UL and cUL approved conductors with fluoropolymer insulation.

Style no. 20711-F200 20711-F200

2749-F200

2 • Outer sheath: Fluorinated polymer.

Characteristics General

- Continuous operating temperatures: -90 °C to +200 °C.
- Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.
 - Excellent mechanical strength.

Electrical

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

Standard products

- Single conductors: UL and cUL approved conductors with fluoropolymer insulation ($200~^{\circ}\text{C}$).
 - · Outer sheath colours: white, black or grey.
 - Stranding of conducting cores: contact us.

Approvals - standards

- UL and cUL approval as per standard UL 758 and C22.2 No. 210 - File no.: E101965.
 - "Horizontal flame test" or "Cable flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.

Applications

· Internal cabling for electrical heating appliances. External connections for electrical heating appliances.

Options

- aid,
 - Other outer sheath colours: contact us.
 - Other nominal cross-sections: contact us.

•	Electrical	shielding:	Tin-plated	copper	bro
	_	vr aluminiur	m tana I d	ontinuit	

Conductors with a silicone insulation: contact us.

Other style nos. available	: styles no. 2895, 20262, 20920
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 Bare copper (ø > 0.38 mm)	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
G Nickel-plated copper 27 %	: UL approved nominal cross-sections

* 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

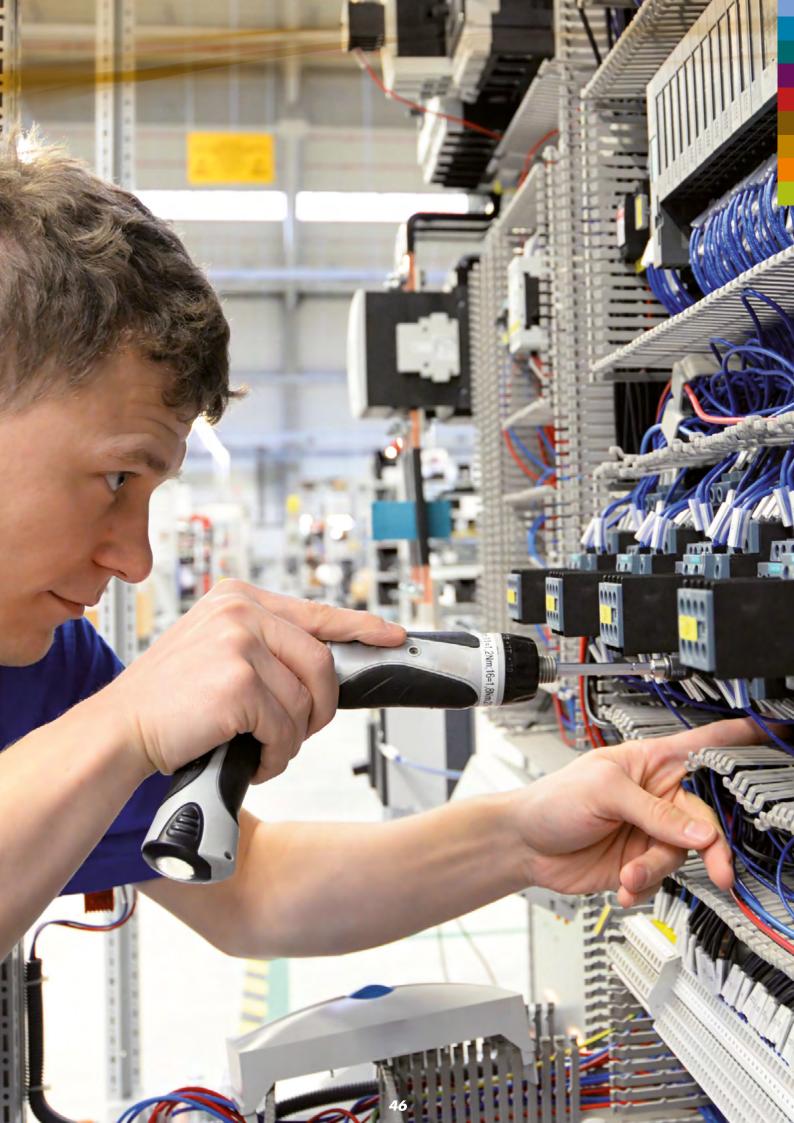
For this product, please contact:

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



	Style no. Insulation		ETFE "Thin-wall"		20/1	FEP	ETFE "Thin-wall"		
		Approval		- 300 V AWM I A/B (Wall 0.25 mm)	200 °C	2 - 300 V AWM I A/B (Wall 0.25 mm)		- 300 V AWM I A/B Wall 0.51 mm)	
		Vominal	Nominal	Nominal	Nominal	Nominal	Nominal	Nominal	
	cros	ss-section	diameter of the cond.*	diameter of the cable*	diameter of the cond.*		diameter of the cond.*	diameter of the cable*	
No. of cond.	AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
2	26	0.13	0.8	2.1	1.0	2.5	0.8	2.6	
3	26	0.13	0.8	2.2	1.0	2.8	0.8	2.7	
4	26	0.13	0.8	2.4	1.0	3.0	0.8	2.9	
5	26	0.13	0.8	2.7	1.0	3.3	0.8	3.1	
7	26	0.13	0.8	3.0	1.0	3.6	0.8	3.4	
2	24	0.22	0.9	2.3	1.1	2.8	0.9	2.8	
3	24	0.22	0.9	2.4	1.1	3.0	0.9	2.9	
4	24	0.22	0.9	2.7	1.1	3.3	0.9	3.1	
5 7	24 24	0.22	0.9	3.0	1.1	3.6 4.1	0.9	3.4 3.7	
2	22	0.34	1.05	2.7	1.25	3.1	1.05	3.1	
3	22	0.34	1.05	2.8	1.25	3.3	1.05	3.2	
4	22	0.34	1.05	3.1	1.25	3.8	1.05	3.5	
5	22	0.34	1.05	3.4	1.25	4.2	1.05	3.8	
7	22	0.34	1.05	3.9	1.25	4.6	1.05	4.1	
2	_	0.5	1.25	3.1	1.4	3.4	1.25	3.5	
3		0.5	1.25	3.3	1.4	3.8	1.25	3.7	
4		0.5	1.25	3.8	1.4	4.2	1.25	4.0	
5		0.5	1.25	4.1	1.4	4.6	1.25	4.3	
7	-	0.5	1.25	4.5	1.4	5.0	1.25	4.7	
2	20	0.6	1.3	3.2	1.5	3.6	1.3	3.6	
3	20	0.6	1.3	3.4	1.5	4.0	1.3	3.8	
4	20	0.6	1.3	3.9	1.5	4.4	1.3	4.1	
5	20	0.6	1.3	4.3	1.5	4.9	1.3	4.5	
7	20	0.6	1.3	4.7 3.4	1.55	5.3	1.3	4.9 3.8	
3	-	0.75	1.4	3.4	1.55	4.1	1.4	4.0	
4		0.75	1.4	4.1	1.55	4.1	1.4	4.0	
5		0.75	1.4	4.5	1.55	5.0	1.4	4.8	
7	-	0.75	1.4	5.0	1.55	5.5	1.4	5.2	
2	18	0.93	1.55	3.9	1.7	4.2	1.55	4.1	
3	18	0.93	1.55	4.1	1.7	4.5	1.55	4.3	
4	18	0.93	1.55	4.5	1.7	4.9	1.55	4.7	
5	18	0.93	1.55	4.9	1.7	5.4	1.55	5.2	
7	18	0.93	1.55	5.4	1.7	6.1	1.55	5.6	
3	-	1	1.65	4.1	1.8	4.4	1.65	4.3	
4	-	1	1.65	4.3	1.8	5.1	1.65	4.9	
5		1	1.65	5.2	1.8	5.7	1.65	5.4	
7	-	1	1.65	5.7	1.8	6.4	1.65	5.9	
2	16	1.34	1.9	4.6	2.0	4.8	1.9	4.8	
3	16	1.34	1.9	4.9	2.0	5.1	1.9	5.1	
4	16	1.34	1.9	5.3	2.0	5.6	1.9	5.5	
5	16	1.34	1.9	6.1	2.0	6.4	1.9	6.1	
7	16	1.34	1.9	6.7	2.0	7.0	1.9	6.7	
2	-	1.5	1.9	4.6	2.0	4.8	1.9	4.8	
3	-	1.5	1.9	4.9	2.0	5.1	1.9	5.1	
4 5		1.5 1.5	1.9	5.3	2.0	5.6 6.4	1.9	5.5 6.1	
7	-	1.5	1.9	6.1	2.0	7.0	1.9	6.7	
2	14	-	2.25	5.3	2.4	5.6	2.25	5.5	
3	14	-	2.25	5.6	2.4	6.2	2.25	5.8	
4	14	-	2.25	6.4	2.4	6.8	2.25	6.4	
5	14	-	2.25	7.0	2.4	7.5	2.25	7.0	
7	14	-	2.25	7.7	2.4	8.4	2.25	7.7	
om	Cond	ucting metal	B*CI	DEF*G	B*0	CDEG	B*CD	EF*G	

3 2 2 3 4 2 5 7 2 2 3 3 4 5 7 2 3 4 2 5 7 2 2 3 4 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	Approval		- 300 V	200 %							
2 2 2 3 4 2 5 2 7 2 2 3 4 5 7 2 3 4 2 5 7 2 2 3 4 2 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7		,	AWM I A/B	200 (- 600 V AWM I A/B	200 °C	- 600 V AWM I A/B	200 °C	- 600 V	200 °C	- 600 V
2 2 2 3 4 2 5 2 7 2 2 3 4 5 7 2 3 4 2 5 7 2 2 3 4 2 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7		,	Wall 0.25 mm)	_	(Wall 0.30 mm)	(1	Wall 0.30 mm)	(Wall 0.51 mm)	(Wall 0.51 mm)
2 2 2 3 4 2 5 2 7 2 2 3 4 5 7 2 3 4 2 5 7 2 2 3 4 2 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	cross-section		of the cable*		of the cable*		of the cable*		of the cable*		of the cable*
3 2 2 3 4 2 5 7 2 2 3 3 4 5 7 2 3 4 2 5 7 2 2 3 4 2 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	, ,	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
4 2 2 2 3 3 2 4 2 5 7 2 2 3 4 2 5 7 2 2 3 4 2 2 5 7 2 2 3 4 5 7 7 2 2 3 4 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	26 0.13	1.0	3.0	1.0	2.6	1.2	3.0	1.0	3.0	1.2	3.4
5 2 2 2 3 4 2 5 2 7 2 2 3 4 2 5 7 2 2 3 4 2 5 7 2 2 3 4 2 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7		1.0	3.2	1.0	2.7 3.0	1.2	3.2 3.5	1.0	3.1	1.2	3.6
2 2 3 4 2 5 7 2 2 3 4 5 7 2 2 3 4 2 5 7 2 7 2 7 2 7 2 7 7 2 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7	26 0.13	1.0	3.7	1.0	3.3	1.2	4.0	1.0	3.7	1.2	4.3
3 2 2 3 4 2 5 2 7 2 2 3 4 5 7 2 2 3 4 5 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	26 0.13	1.0	4.0	1.0	3.6	1.2	4.4	1.0	4.0	1.2	4.6
3 2 2 3 4 2 5 2 7 2 2 3 4 5 7 2 2 3 4 5 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7											
4 2 2 3 2 3 4 2 5 7 2 3 4 2 5 7 2 2 3 4 2 5 7 2 2 3 4 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2		1.1	3.2	1.1	2.8	1.35	3.3	1.1	3.2	1.35	3.7
5 2 2 3 4 2 5 7 2 2 3 4 2 5 7 2 2 3 4 2 5 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2		1.1	3.4	1.1	2.9 3.2	1.35	3.5 4.1	1.1	3.3	1.35	3.9 4.3
2 2 3 4 2 5 7 2 2 3 4 5 7 2 2 2 3 4 5 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	24 0.22	1.1	4.0	1.1	3.5	1.35	4.4	1.1	3.9	1.35	4.7
3 2 4 2 5 7 2 2 3 4 2 5 7 2 2 3 4 2 5 7 2 2 3 4 5 7 7 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	24 0.22	1.1	4.3	1.1	4.1	1.35	4.9	1.1	4.3	1.35	5.1
3 2 2 5 2 7 2 2 3 4 2 5 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 7 2 7 7 2 7											
4 2 5 2 7 2 2 3 4 2 5 2 7 2 2 3 4 5 7 7	22 0.34	1.25	3.5	1.25	3.1	1.45	3.5	1.25	3.5	1.45	3.9
5 2 7 2 3 4 2 5 7 2 2 3 4 5 7 7		1.25	3.7	1.25	3.3	1.45	3.9	1.25	3.7	1.45	4.2
7 2 2 3 4 5 7 2 2 3 4 2 5 7 2 3 4 5 7 7	22 0.34	1.25 1.25	4.0 4.4	1.25	3.8 4.1	1.45 1.45	4.3 4.7	1.25 1.25	4.0 4.3	1.45 1.45	4.5
2 3 4 5 7 2 2 3 4 5 7 7	22 0.34	1.25	4.8	1.25	4.5	1.45	5.2	1.25	4.7	1.45	5.4
3 4 5 7 2 2 3 2 5 2 7 2 2 3 4 5 5 7 7											
4 5 7 2 2 3 4 2 5 7 2 2 3 4 5 7 7	- 0.5	1.4	3.8	1.4	3.4	1.65	4.1	1.4	3.8	1.65	4.3
5 7 2 2 3 4 2 5 2 7 2 2 3 4 5 7 7	- 0.5	1.4	4.0	1.4	3.8	1.65	4.4	1.4	4.0	1.65	4.6
7 2 2 3 4 2 5 7 2 2 3 4 5 7 7	- 0.5	1.4	4.4	1.4	4.1	1.65	4.8	1.4	4.3	1.65	5.0
2 2 3 4 2 5 7 2 2 3 4 5 5 7 7	- 0.5 - 0.5	1.4	4.8 5.2	1.4	4.5 5.0	1.65	5.3	1.4	4.8 5.2	1.65	5.5
3 2 4 2 5 2 7 2 2 3 4 5 7	- 0.5	1.4	3.2	1.4	3.0	1.03	5.8	1.4	3.2	1.65	0.0
4 2 5 2 7 2 2 3 4 5 7 7	20 0.6	1.5	4.0	1.5	3.6	1.7	4.2	1.5	4.0	1.7	4.4
5 2 7 2 2 3 4 5 7 7 6 7 7 6 7 7 6 7 7 7 7 7 7 7 7 7 7	0.6	1.5	4.3	1.5	4.0	1.7	4.5	1.5	4.2	1.7	4.7
7 2 2 3 4 5 7	20 0.6	1.5	4.6	1.5	4.4	1.7	4.9	1.5	4.6	1.7	5.1
2 · · · 3 · · · 4 · · · 5 · · · 7	0.6	1.5	5.1	1.5	4.8	1.7	5.4	1.5	5.0	1.7	5.6
3 4 5 7	20 0.6	1.5	5.5	1.5	5.3	1.7	6.1	1.5	5.5	1.7	6.1
4 5 7	- 0.75	1.55	4.1	1.55	3.9	1.8	4.4	1.55	4.1	1.8	4.6
5 7	- 0.75	1.55	4.4	1.55	4.1	1.8	4.7	1.55	4.3	1.8	4.9
7 -	- 0.75	1.55	4.8	1.55	4.5	1.8	5.1	1.55	4.7	1.8	5.4
	- 0.75	1.55	5.2	1.55	4.9	1.8	5.7	1.55	5.2	1.8	5.9
2 1	- 0.75	1.55	5.7	1.55	5.4	1.8	6.4	1.55	5.6	1.8	6.4
	8 0.93	1.7	4.4	1.8	4.4	2.0	4.8	1.8	4.6	2.0	5.0
3 1	0.93	1.7	4.7	1.8	4.6	2.0	5.1	1.8	4.9	2.0	5.3
	8 0.93	1.7	5.1	1.8	5.1	2.0	5.6	1.8	5.3	2.0	5.8
	8 0.93	1.7	5.6	1.8	5.6	2.0	6.4	1.8	5.8	2.0	6.4
7 1	8 0.93	1.7	6.1	1.8	6.4	2.0	7.0	1.8	6.4	2.0	7.0
2 -	- 1	1.8	4.6	1.8	4.4	2.0	4.8	1.8	4.6	2.0	5.0
	- 1	1.8	4.9	1.8	4.6	2.0	5.1	1.8	4.9	2.0	5.3
4	- 1	1.8	5.4	1.8	5.1	2.0	5.6	1.8	5.3	2.0	5.8
5 -	- 1	1.8	5.9	1.8	5.6	2.0	6.4	1.8	5.8	2.0	6.4
7	- 1	1.8	6.4	1.8	6.4	2.0	7.0	1.8	6.4	2.0	7.0
0 -	101		5.0				5.6		5.0		
	1.34 16 1.34	2.0	5.0	2.0	4.8 5.1	2.2	5.2	2.0	5.0	2.2	5.4 5.8
	1.34 16 1.34	2.0	5.3	2.0	5.1	2.2	5.6	2.0	5.3	2.2	6.3
	1.34	2.0	6.4	2.0	6.4	2.2	6.9	2.0	6.4	2.2	7.0
	16 1.34	2.0	7.0	2.0	7.0	2.2	7.6	2.0	7.0	2.2	7.6
	- 1.5	2.0	5.0	2.0	4.8	2.3	5.4	2.0	5.0	2.3	5.6
3 .	- 1.5	2.0	5.3	2.0	5.1	2.3	5.8	2.0	5.3	2.3	6.0
4 · · 5	- 1.5 - 1.5	2.0	5.8	2.0	5.6	2.3	6.5	2.0	5.8	2.3	6.6
7 .	- 1.5	2.0	6.4 7.0	2.0	6.4 7.0	2.3	7.2 7.9	2.0	6.4 7.0	2.3	7.2 7.9
		2.0		2.5		2.0		2.0		2.0	
	-	2.4	5.8	2.4	5.6	2.6	6.2	2.4	5.8	2.6	6.2
	-	2.4	6.2	2.4	6.1	2.6	6.6	2.4	6.2	2.6	6.6
	-	2.4	6.8	2.4	6.7	2.6	7.3	2.4	6.8	2.6	7.3
	4 -	2.4	7.5 8.4	2.4	7.4 8.4	2.6 2.6	8.2 9.0	2.4	7.5 8.4	2.6 2.6	8.2 9.0
		2.4	0.4							2.0	7.0
Co	onducting metal	B*C	DEG	B*CI	DEF*G	B*CD	EF*G	B*CE	DEF*G	B*CE	EF*G



FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
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2202	PLASTHERM 80 °C - PVC insulation	c ,521 us	50
2203	PLASTHERM 105 °C - PVC insulation	c . F.L us	52
2204	PLASTHERM Style 1015-HAR	c. Mus ⊲HAR⊳	54
2205	PLASTHERM Style 20199, 2-conductor flat cable	c .R.L us	55
2206	PLASTHERM MY2-Y2 and MY2-EY2		56
2207	PLASTHERM 80 °C - PVC insulation and sheathing	c .R.U us	58
2208	PLASTHERM 90 °C - PVC insulation and sheathing	c .511 us	59
2209	PLASTHERM 105 °C - PVC insulation and sheathing	c us	60
2210	PLASTHERM 90 °C - Polyolefin insulation	c Al us	61
2211	PLASTHERM PHF2 - Halogen-free insulation		62
2212	PLASTHERM PHF2E IRD Halogen-free insulation, reduced walls		63
2213	PLASTHERM PHFLEX - Cable resistant to alternate bending, halogen-fro	ee insulation	64
2214	PLASTHERM STYLE 21209 - Polyurethane sheathing	c SL us	65
2215	PLASTHERM MYBE-EY-CSI - Intrinsic safety		66
2216	PLASTHERM HP-U - 2-conductor flat cable, thin insulation		67
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2219	PLASTHERM E41		70
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THERMOPLASTIC INSULATED WIRES AND CABLES

1 • Flexible bare (ref. Y2) or tin-plated (ref. EY2) copper core.

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

2 1

- **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.

2 • Insulation: PVC 105 °C.

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

Electrical

Characteristics

- Rated voltage: CS < 0.5 mm²: 300/500 V.
 0.5 mm² \leq CS < 1.5 mm²: 450/750 V.
 CS \geq 1.5 mm²: 600/1000 V.
- Test voltage: CS < 0.5 mm²: 1500 V. $0.5 \text{ mm²} \leq \text{CS} < 1.5 \text{ mm²} : 2500 \text{ V}.$ $\text{CS} \geq 1.5 \text{ mm²} : 3000 \text{ V}.$

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



www.omerin.com

Y2 and EY2

	Flexible core	INSULATED WIRE OR CABLE			
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km) (Tin-plated copper core)	(mm)	(mm)	(kg/km)
0.12	7 × 0.15*	161	0.3	1.1	2.2
0.14	7 x 0.16**	142	0.3	1.1	2.3
0.22	7 x 0.20	92.5	0.3	1.2	3.2
0.34	7 x 0.25	59.2	0.3	1.3	4.3
0.34	19 x 0.15*	58.9	0.3	1.3	4.3
0.38	19 x 0.16**	55.7	0.3	1.4	4.9
0.5	7 x 0.30	40.7	0.6	2.1	8.4
0.5	16 x 0.20	40.1	0.6	2.1	8.4
0.6	19 x 0.20	33.7	0.6	2.2	9.6
0.75	24 × 0.20	26.7	0.6	2.3	11.2
0.93	19 x 0.25	21.6	0.6	2.4	13.0
1	32 × 0.20	20.0	0.6	2.5	14.0
1.34	19 x 0.30	15.0	0.6	2.7	17.6
1.5	30 x 0.25	13.7	0.7	3.0	20.3
2.5	50 x 0.25	8.21	0.8	3.6	31.7
4	56 x 0.30	5.09	0.8	4.3	48.5
6	84 x 0.30	3.39	0.8	4.8	67.6
10	77 × 0.40	1.95	1.0	6.4	111
16	119 x 0.40	1.24	1.2	7.8	169
on • RY2 and RE	Y2 Solid core		INS	ULATED WIRE	
0.22	1 x 0.52	85.9			
0.22			0.4	1.3	3.5 4.9
	1 x 0.64	54.1		1.5	
0.5	1 x 0.80	36.7	0.5	1.8	7.4
0.75	1 x 0.98	24.8	0.55	2.1	10.6
1	1 x 1.13	18.2	0.6	2.3	13.4
1.5	1 x 1.38	12.2	0.6	2.6	18.8
2.5	1 x 1.77	7.56	0.7	3.2	29.9
4	1 x 2.24*	4.70	0.7	3.6	44.1
6	1 x 2.74*	3.11	0.8	4.1	63.2
on • Y2-ES and E					
	Extra-flexible core		INS	ULATED WIRE	
0.05	24 × 0.05	405	0.2	0.7	0.9
0.14	70 x 0.05	159	0.3	1.1	2.3
0.25	130 x 0.05 or 60 x 0.07	86.6	0.3	1.2	3.4
0.34	180 x 0.05 or 90 x 0.07 or 40 x 0.10	59.9	0.4	1.6	5.2
0.4	200 x 0.05 or 100 x 0.07 or 50 x 0.10	50.7	0.45	1.8	6.2
0.5	260 x 0.05 or 130 x 0.07 or 60 x 0.10	40.7	0.45	1.9	7.4
0.5	200 005 000 007 100 010	07.1	0.5	0.0	10.5

^{*} Nominal stranding only available in bare copper version.

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

0.75

1.5

For this product, please contact:

390 x 0.05 or 200 x 0.07 or 100 x 0.10

520 x 0.05 or 260 x 0.07 or 120 x 0.10

750 x 0.05 or 390 x 0.07 or 190 x 0.10

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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 some cases, for production purposes, a separating tape may be added between two successive layers. 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.® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

0.5

0.55

0.55

2.2

2.5

2.8

10.5

13.8

18.7

27.1

20.4

13.7

PLASTHERM® 80 °C

PVC insulation **UL** and cUL approval



80C 300V 1007 🗫 AWM

- 1 Bare or tin-plated copper core.2 Insulation: PVC.

Characteristics General

- Continuous operating temperatures -30°C to +80°C.
- · Good resistance to chemical influences.
- Good alternate bending strength.

Electrical

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

Standard products

- · All colours including two-coloured.
- Stranding of conducting cores: contact us.

Approvals - standards

- UL and cUL approval (CSA) as per standard UL 758 and C22.2 No. 210 -File no.: E101965.
- · "Horizontal flame test" as per UL approval.
- "FT1 flame rating" as per cUL approval.

Applications

• Internal cabling for electrical or electronic appliances, computers, etc..

Options

 Other nominal cross-sections: contact us. • Other style nos. available: styles no. 1017, 1019, 1020, 1021, 1022, 1023, 1158, 1159, 10024, 10076, 10127, 10437, 10438, 1498, 1662, 1908, 1909.

Style no.		1007		14	197	1581		
A	Approval	80 °C	- 300 V	80 °C	- 300 V	80 °C	- 300 V	
cross-	minal section	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	
AWG	(mm²)	tion (mm)	(mm)	tion (mm)	(mm)	tion (mm)	(mm)	
30	0.05	(mm) 0.38	1.1	- (111111)	-	- (11111)		
28	0.09	0.38	1.15	-	-	-		
26	0.13	0.38	1.25	0.41	1.3	-	-	
24	0.22	0.38	1.4	0.41	1.45			
22	0.34	0.38	1.5	0.41	1.6	-		
	0.5	0.38	1.75	0.41	1.75	-	-	
20	0.6	0.38	1.75	0.41	1.8	-	-	
-	0.75	0.38	1.9	0.41	1.95	-	-	
18	0.93	0.38	2.0	0.41	2.05	-	-	
-	1	0.38	2.1	0.41	2.15	-	-	
16	1.34	0.38	2.3	0.41	2.3	-	-	
-	1.5	0.38	2.4	0.41	2.4	-	-	
14	-		-	-	-	0.41	2.7	
-	2.5		-	-	-	0.41	2.9	
12	-	-	-	-	-	0.41	3.2	
-	4		-	-	-	0.41	3.4	
10	-	-	-	-	-	0.41	3.8	
-	6	-	-	-	-	0.41	4.0	
8	-	-	-	-	-	-	-	
-	10	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	
-	16	-	-	-	-	-	-	
4	-	-	-	-	-	-	-	
-	25		-	-	-	-	-	
2	35	-	-	-	-	-	-	
1	-		-	-	-	-	-	
-	50		-	-	-	-	-	
1/0	-	-	-	-	-	-	-	
2/0	70	-	-	-	-	-	-	
3/0	-		-	-	-	-	-	
-	95	-		-				
4/0	-		-		-		-	
-	120	-		-				
Conduc	ting metal	ВСГ	DEFG	BCI	DEFG	BCI	DEFG	

Conducting metals Tin-plated copper

- B* Tin-plated copper (Ø > 0.38 mm)
- Nickel-plated copper Silver-plated copper
- Nickel
- E F F* Bare copper
- F* Bare copper (Ø > 0.38 mm)
 G Nickel-plated copper 27 %

AWM I A Internal wiring Internal wiring, not subject to mechanical abuse

AWM II A/BExternal 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.

For this product, please contact:

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10053 Style no. Approval 80 °C - 300 V

	ninal section	Average thickness of insula-	Nominal diameter*
AWG	(mm²)	tion	(mm)
30	0.05	(mm) 0.56	1.45
28	0.09	0.56	1.5
26	0.13	0.56	1.6
24	0.22	0.56	1.75
22	0.34	0.56	1.9
-	0.5	0.56	2.05
20	0.6	0.56	2.1
-	0.75	0.56	2.25
18	0.93	0.56	2.35
-	1	0.56	2.45
16	1.34	0.56	2.6
-	1.5	0.56	2.7
14	-	0.56	3.0
-	2.5	0.56	3.2
12	-	0.56	3.5
	4	0.56	3.75
10	-	0.56	4.1
-	6	0.56	4.3
8	-	-	
-	10		-
6	-	-	-
4	16		-
4	25	-	-
2	35		-
1	33		
-	50		
1/0	-		
2/0	70		
3/0	-		
-	95		
4/0	-		
-	120	-	
Conduc	ting metal	ВСІ	DEFG

1011 10381

80 °C	- 600 V	80 °C - 600 V			
Average thickness of insula- tion	Nominal diameter*	Average thickness of insula- tion	Nominal diameter*		
(m <u>m</u>)	1.05	(mm)			
0.76	1.85	0.51' 0.51	1.3		
0.76		0.51	1.5		
0.76	2.1	0.51	1.65		
0.76	2.2	0.51			
0.76	2.45		1.8		
		0.64	2.25		
0.76	2.65	0.64			
0.76			2.4		
0.76	2.8	0.64	2.55		
	2.8	0.64	2.0		
0.76	3.0	0.69	3.0		
0.76	3.45	0.69	3.3		
0.76			3.45		
0.76	3.9 4.3	0.69	4.0		
0.76	4.5	0.69	4.0		
0.76	4.8	0.69	4.4		
1.14	6.2	0.09	5.5		
1.14	6.6	0.76	6.1		
1.52	8.2	0.76	6.9		
1.52	8.6	0.76	7.2		
1.52	9.6	1.14	8.9		
1.52	10.0	1.14	9.4		
1.52	11.0	1.14	10.5		
2.03	13.0	1.52	12.4		
2.03	14.2	1.52	12.4		
2.03	14.6	1.52	13.5		
2.03	16.2	1.52	14.6		
2.03	17.6	1.52	16.2		
2.03	17.8	1.52	16.3		
2.03	19.1	2.03	19.1		
2.03	20.5	2.03	20.5		
BCI	DEFG	ВСГ	DEFG		

1030

0	0	00	- 1	0	0	0	3.7
0	v	°C	- 1	U	v	v	·V

Average thickness of insula-	Nominal diameter*
tion	(mm)
(mm) 0.76	1.85
0.76	1.9
0.76	2.1
0.76	2.2
0.76	2.3
0.76	2.45
0.76	2.6
0.76	2.65
0.76	2.8
0.76	2.8
0.76	3.0
0.76	3.1
0.76	3.45
0.76	3.6
0.76	3.9
0.76	4.3
0.76	4.5
0.76	4.8
-	
-	-
-	
-	-
-	
-	-
-	
-	
-	
BCD	EFG

- Conducting metals
 B Tin-plated copper
 B* Tin-plated copper (Ø > 0.38 mm)
 C Nickel-plated copper
 D Silver-plated copper

- 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.

For this product, please contact:

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PLASTHERM® 105 °C

PVC insulation UL and cUL approval





°C - 300 V

10012

105 °C - 600 V

Nominal

(mm)

1.3

1.4

1.5

1.65

1.8

1.95

2.0

2.15

2 25

2.35

2.5

2.7

2.9

3.1

3.4

3.65 4.0

4.2

5.5

7.6 7.7

8.9

9.4

10.5

124

12.8

13.5 14.6

16.2 16.3

diameter

Average

thickness

of insulation (mm)

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51 0.51

0.76

0.76

1.14

1.14

1.14

1.14

1.52

1.52

1.52

1.52

1.52

BCDEFG

- 1 Bare or tin-plated copper core
- 2 Insulation: PVC

Characteristics General

- Continuous operating temperatures -30°C to +105 °C.
- Good resistance to chemical influences.
 - Good alternate bending strength.

Electrical

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

Standard products

 All colours including two-coloured. Stranding of conducting cores: contact us.

Approvals - standards

- UL and cUL approval (CSA) as per standard UL 758 and C22.2 No. 210 - File no.: E101965.
 - "Horizontal flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.

Applications

 Internal cabling for electrical or electronic appliances, computers, etc..

Options

- Other nominal cross-sections: contact us. • Other style nos. available: styles no. 1028, 1484, 1500, 1504, 1647, 1650, 10070, 10236, 11122, 11287.
- Available PVC 90 °C insulated style nos.: styles no. 1706, 1013, 1024, 1026, 1027, 1207, 1499, 10321, 1032, 1444: contact us.
- Nylon sleeving for certain Style number, consult us.
- Vertical flame test VW1 for style 1015: consult us.

Style no.	1569-VW-1	10198	1896
Approval	105 °C – 300 V	105 °C - 300 V	105 °C - 30
1	A No. 1	A NI	A

	minal section	Average thickness of insula-	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*
AWG	(mm²)	tion	(mm)	(mm)	(mm)	(mm)	(mm)
30	0.05	(mm) 0.38	1.1	0.38	1.1	-	
28	0.09	0.38	1.15	0.38	1.15	-	-
26	0.13	0.38	1.2	0.38	1.25	0.89	2.3
24	0.22	0.38	1.4	0.38	1.4	0.89	2.4
22	0.34	0.38	1.6	0.38	1.5	0.89	2.55
-	0.5	0.38	1.7	0.38	1.7	0.89	2.7
20	0.6	0.38	1.8	0.38	1.75	0.89	2.75
-	0.75	0.38	1.9	0.38	1.9	0.89	2.9
18	0.93	0.38	2.05	0.38	2.0	0.89	3.1
-	1	0.38	2.1	0.38	2.1	0.89	3.1
16	1.34	0.38	2.3	0.38	2.3	0.89	3.4
-	1.5	0.38	2.4	0.38	2.4	0.89	3.4
14	-	0.38	2.7	0.51	2.9	0.89	3.7
-	2.5	0.38	2.8	0.51	3.1	0.89	3.9
12	-	0.38	3.2	0.51	3.4	0.89	4.3
-	4	0.38	3.4	0.51	3.65	0.89	4.5
10	-	0.38	3.8	0.51	4.0	0.89	4.9
-	6	0.38	4.0	0.51	4.2	0.89	5.1
8	-	0.76	5.5	0.76	5.5	0.89	5.8
-	10	0.76	6.1	0.76	6.1	0.89	6.4
6	-	0.76	6.9	0.76	6.9	0.89	7.1
-	16	0.76	7.2	0.76	7.2	0.89	7.4
4	-	0.76	8.1	0.76	8.1	0.89	8.4
-	25	0.76	8.6	0.76	8.6	0.89	9.0
2	35	0.76	9.7	0.76	9.7	0.89	10.0
1	-			1.02	11.4	0.89	11.2
-	50	-	-	1.02	11.8	0.89	11.5
1/0	-	-		1.02	12.5	0.89	12.2
2/0	70	-	-	1.27	14.1	0.89	13.3
3/0	-	-		1.27	15.7	0.89	14.9
-	95	-	-	1.27	15.8	0.89	15.1
4/0	-	-	-	1.27	17.3	0.89	16.5
-	120	-	-	1.27	17.6	0.89	16.8
Conducting metal		BCD	DEFG	BCD	EFG	Е	BF

Conducting metals

Tin-plated copper

KEY

- B* Tin-plated copper (Ø > 0.38 mm)
- C Nickel-plated copper D Silver-plated copper
- E Nickel F Bare copper
- Bare copper (ø > 0.38 mm)
- G Nickel-plated copper 27 %

AWMIA 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.

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S	Style no.		1015		1283		1897	
A	Approval		105 °C – 600 V		105 °C - 600 V		-600 V	
	minal section	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	
AWG	(mm²)	tion	(mm)	tion	(mm)	tion	(mm)	
30	0.05	(mm) 0.76	1.85	(mm) -	-	(mm) -		
28	0.09	0.76	1.9	-	-	-		
26	0.13	0.76	2.1	-	-	0.89	2.3	
24	0.22	0.76	2.2	-	-	0.89	2.4	
22	0.34	0.76	2.3		-	0.89	2.55	
-	0.5	0.76	2.45	-	-	0.89	2.7	
20	0.6	0.76	2.6	-	-	0.89	2.75	
-	0.75	0.76	2.65	-	-	0.89	2.9	
18	0.93	0.76	2.8	-	-	0.89	3.2	
-	1	0.76	2.8	-	-	0.89	3.2	
16	1.34	0.76	3.0	-	-	0.89	3.4	
-	1.5	0.76	3.1	-	-	0.89	3.4	
14	-	0.76	3.45	-	-	0.89	3.7	
-	2.5	0.76	3.6	-	-	0.89	3.9	
12	-	0.76	3.9		-	0.89	4.4	
-	4	0.76	4.3	-	-	0.89	4.5	
10	-	0.76	4.5	-	-	0.89	4.9	
-	6	0.76	4.8	-	-	0.89	5.1	
8	-	1.14	6.2	1.52	7.0	0.89	5.8	
-	10	1.14	6.6	1.52	7.6	0.89	6.4	
6	-	1.52	8.2	1.52	8.2	0.89	7.1	
-	16	1.52	8.6	1.52	8.6	0.89	7.4	
4	-	1.52	9.6	1.52	9.6	0.89	8.4	
-	25	1.52	10.0	1.52	10.0	0.89	9.0	
2	35	1.52	11.4	1.52	11.0	0.89	10.0	
1	-	2.03	13.0	-	-	0.89	11.2	
-	50	2.03	14.2	-	-	0.89	11.5	
1/0	-	2.03	14.6	-	-	0.89	12.2	
2/0	70	2.03	16.2	-	-	0.89	13.3	
3/0	-	2.03	17.6	-	-	0.89	14.9	
-	95	2.03	17.8	-	-	0.89	15.1	
4/0	-	2.03	19.1	-	-	0.89	16.5	
-	120	2.03	20.5	-	-	0.89	16.8	
Conducting metal		ВСГ	DEFG	ВСГ	DEFG	ВСС	EFG	

109	914	10	271	10269		
105 °C -	-1 000 V	105 °C	-1 000 V	105 °C -	- 1 000 V	
Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	
tion (mm)	(mm)	tion (mm)	(mm)	tion (mm)	(mm)	
-	-	0.51	1.3	0.76	1.85	
0.38	1.15	0.51	1.4	0.76	1.9	
0.38	1.2	0.51	1.5	0.76	2.1	
0.38	1.4	0.51	1.65	0.76	2.2	
0.38	1.6	0.51	1.75	0.76	2.3	
0.38	1.7	0.51	1.95	0.76	2.45	
0.38	1.8	0.51	2.0	0.76	2.5	
0.38	1.9	0.51	2.15	0.76	2.65	
0.38	2.05	0.51	2.3	0.76	2.8	
0.38	2.1	0.51	2.35	0.76	2.8	
0.38	2.3	0.51	2.5	0.76	3.1	
0.38	2.4	0.51	2.7	0.76	3.1	
0.38	2.7	0.51	2.9	0.76	3.5	
0.38	2.8	0.51	3.1	0.76	3.6	
0.38	3.2	0.51	3.4	0.76	3.9	
0.51	3.65	0.51	3.65	0.76	4.3	
0.51	4.0	0.51	4.0	0.76	4.5	
0.76	4.8	0.51	4.2	0.76	4.8	
0.76	5.5	0.76	5.5	1.14	6.2	
0.76	6.1	0.76	6.1	1.14	6.6	
0.76	6.9	1.14	7.6	1.52	8.2	
0.76	7.2	1.14	7.7	1.52	8.6	
1.0	8.6	1.14	8.9	1.52	9.6	
1.0	9.1	1.14	9.4	1.52	10.0	
1.0	10.2	1.14	10.5	1.52	11.1	
1.27	11.9	1.52	12.4	2.03	13.0	
1.27	12.3	1.52	12.8	2.03	14.2	
1.27	13.0	1.52	13.5	2.03	14.6	
1.27	14.1	1.52	14.6	2.03	16.2	
1.27	15.7	1.52	16.2	2.03	17.6	
1.27	15.8	1.52	16.3	2.03	17.8	
1.52	17.3	-	-	2.03	20.5	
1.32	19.5		-	2.03	20.5	
BCD	EFG	BCE	DEFG	BCI	DEFG	

For this product, please contact:

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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.

THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® Style 1015-HAR UL, cUL and USE < HAR > approval -30 °C to +105 °C

c **Al** us

⊲HAR⊳

2 015 93 AWM - OMERIN 369 USE (I HAR > H07V2-K

- 1 Flexible bare copper core class 5 as per IEC 60228.
- 2 Insulation: PVC type TI3 NF C 32-525-1 / NF EN 50525-1 / EN 50363-3.

Approvals - standards

- UL approval as per standard UL 758
 File no.: E101965.
- cUL approval (up to 4 mm² included) as per standard CSA C22.2 N° 210 -File no.: E101965.
 - USE ⊲HARD approval as per NF EN 50525-2-31.
- "Horizontal flame test" as per UL approval.
 - "FT1 flame rating" as per cUL approval.
- Resistance to vertical flame propagation for a single insulated wire: IEC 60332-1-2 / EN 50265-2-1 / NF C 32-070 test C2.

Applications

Internal cabling for electrical and electronic appliances.

Options

• Tin-plated copper core.

Style 1015-HAR

Characteristics General

- Maximum continuous operating temperature as per USE < HARD: +90 °C.
- Maximum continuous operating temperature as per UL and cUL: +105 °C.
- Good resistance to chemical influences.
- · Good alternate bending strength.

Electrical

- Rated voltage:
 - > UL: 600 V.
 - > cUL: 1000 V.
 - > USE ⊲HARD:
 - Type H05V2-K: 300/500 V.
 - Type H07V2-K: 450/750 V.
- Test voltage: 6000 V.

Standard products

All colours including two-coloured.

Flexible	core • class 5 as per	IEC 60228	INSUL	ATED WIRE OR	CABLE
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
ре Н05V2-К					
0.5	16 x 0.20	39.0	0.76	2.45	9.9
0.75	24 x 0.20 32 x 0.20	26.0 19.5	0.76 0.76	2.65 2.8	12.6 15.1
ı	32 x 0.20	19.5	0.70	Z.0	13.1
pe H07V2-K					
1.5	30 x 0.25	13.3	0.76	3.1	20.1
2.5	50 x 0.25	7.98	0.80	3.6	30.1
4	56 x 0.30	4.95	0.80	4.3	46.8
6	84 x 0.30	3.30	0.80	4.8	65.2
10	80 x 0.40	1.91	1.15	6.6	117
16*	126 x 0.40	1.21	1.15	7.7	168
25	192 x 0.40	0.78	1.52	10.0	274
35	259 x 0.40	0.554	1.52	11.4	359

For this product, please contact:

omerin@omerin.com

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COMECTION LES CABLES DE L'EXTREME

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^{*} Nominal cross-section only available in Style 10271 <

PLASTHERM® Style 20199 2-conductor flat cable

105°C PVC insulation **UL** approval

-30 °C to +105 °C



- 1 Flexible bare or tin-plated copper core.2 Insulation: PVC 105 °C.



Approvals - standards

• UL approval as per standard UL 758 -File no.: E101965.

Applications

· Internal cabling for electric, electronic, audio and video appliances.

Options

· Identification using a coloured longitudinal stripe on one of the two conductors: contact us.

Characteristics

General

- Continuous operating temperatures: -30 °C to +105 °C.
 - Very good flexibility.
- Good alternate bending strength.
- Easy stripping and separating of conductors.

Electrical

- Rated voltage: 300 V.
- Test voltage: as per standard UL 758.

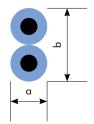
Standard products

- Standard insulation colour: white.
- · Identification by marking on one of the two conductors.

Style 20199

	1	FLEXIBLE CORE	
	minal section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
2 x 24	2 x 0.22	7 x 0.20	87.6
2 x 22	2 x 0.34	7 x 0.25	55.4
-	2 x 0.5	16 x 0.20	39.0
2 x 20	2 x 0.6	19 x 0.20	34.6

	INSULA	TED CABL	E
а	Nominal outer dimensions (mm)	Ь	Approximate linear weight (kg/km)
1.4		3.0	7.5
1.5		3.2	9.8
1.7		3.6	13.0
1.7		3.6	15.7



For this product, please contact:

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THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® MY2-Y2 and MY2-EY2 -30 °C to +105 °C



- 1 Flexible bare (ref. MY2-Y2) or tin-plated (ref. MY2-EY2) copper core.
- 2 Insulation: PVC 105 °C.
- 3 Outer sheath: PVC 105 °C.

Applications

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

Options

- Silver-plated (ref. MY2-AY2) or nickel-plated (ref. MY2-CNY2) copper core: contact us.
 Electrical shielding:
 - > Tin-plated copper braid: ref. MY2BE-Y2 or MY2BE-EY2.
 - > Aluminium tape + continuity wire: ref. MY2BAL-Y2 or MY2BAL-EY2.
 - Insulation and/or outer sheath made of PVC 80°C: contact us.
 Insulation and/or outer sheath
 - made of PVC 125 °C: contact us.
 - Insulation made of silicone rubber: contact us.
- Insulation made of fluorinated polymer ETFE,
 FEP or PFA: contact us.
 - Other nominal metric or American cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other outer sheath colours: contact us.
 - Other options and/or combinations of the options outlined above: contact us.
 - Other numbers of conductors: 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: up to 600/1000 V.
- Test voltage: up to 3000 V.

Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colours: grey or black.

Standard conductor colours:

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
≥6	yellow/green – grey numbered	grey numbered

Identification

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

< Number of conductors > X < Cross-section > (mm²) (example: 3 X 1.5 mm²).

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm²).

Flexible	e core • class 5 as per IEG	60228	INSULATED CO	ONDUCTORS	SHEATH	ED CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)
2 × 0.22	7 x 0.20	92.5	0.3	1.2	3.4	14.8
3 x 0.22	7 x 0.20	92.5	0.3	1.2	3.6	17.7
4 x 0.22	7 x 0.20	92.5	0.3	1.2	3.9	21.2
5 x 0.22	7 x 0.20	92.5	0.3	1.2	4.4	26.9
7 x 0.22	7 x 0.20	92.5	0.3	1.2	4.8	34.2
19 x 0.22	7 x 0.20	92.5	0.3	1.2	7.6	84.4
2 x 0.34	7 x 0.25	59.2	0.4	1.6	4.4	24.3
3 x 0.34	7 x 0.25	59.2	0.4	1.6	4.7	29.0
4 x 0.34	7 x 0.25	59.2	0.4	1.6	5.1	34.8
5 x 0.34	7 x 0.25	59.2	0.4	1.6	5.5	41.1
7 x 0.34	7 x 0.25	59.2	0.4	1.6	6.0	52.9
19 x 0.34	7 x 0.25	59.2	0.4	1.6	9.6	132

For this product, please contact:

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www.omerin.con

Flexible c	ore • class 5 as per	· IEC 60228	INSULATED CO	ONDUCTORS	SHEATH	IED CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)
2 × 0.5	16 x 0.20	40.1	0.4	1.8	4.8	30.0
3 x 0.5	16 x 0.20	40.1	0.4	1.8	5.1	36.4
4 x 0.5	16 x 0.20	40.1	0.4	1.8	5.5	44.1
5 x 0.5	16 x 0.20	40.1	0.4	1.8	6.1	52.4
7 x 0.5 19 x 0.5	16 x 0.20 16 x 0.20	40.1 40.1	0.4	1.8	6.6 11.0	68.0 180
2 x 0.6	19 x 0.20	33.7	0.6	2.2	5.6	39.5
3 x 0.6	19 x 0.20	33.7	0.6	2.2	6.0	47.8
4 x 0.6 5 x 0.6	19 x 0.20 19 x 0.20	33.7 33.7	0.6	2.2	6.5 7.5	57.8 75.2
7 x 0.6	19 x 0.20	33.7	0.6	2.2	8.2	96.7
19 x 0.6	19 x 0.20	33.7	0.6	2.2	13.2	243
2 x 0.75	24 x 0.20	26.7	0.6	2.3	5.8	43.7
3 x 0.75	24 × 0.20	26.7	0.6	2.3	6.2	53.4
4 x 0.75	24 × 0.20	26.7	0.6	2.3	6.7	65.0
5 x 0.75 7 x 0.75	24 x 0.20 24 x 0.20	26.7 26.7	0.6	2.3	7.8 8.5	84.2 109
19 x 0.75	24 x 0.20	26.7	0.6	2.3	13.7	275
2 x 0.93	19 x 0.25	21.6	0.6	2.4	6.0	48.8
3 x 0.93	19 x 0.25	21.6	0.6	2.4	6.4	60.2
4 x 0.93	19 x 0.25	21.6	0.6	2.4	7.0	73.7
5 x 0.93	19 x 0.25	21.6	0.6	2.4	8.1	95.1
7 x 0.93 19 x 0.93	19 x 0.25 19 x 0.25	21.6 21.6	0.6	2.4	8.8 14.2	124 314
2 x 1	32 x 0.20	20.0	0.6	2.5	6.2	51.9
3 x 1	32 x 0.20	20.0	0.6	2.5	6.6	64.1
4 x 1	32 x 0.20	20.0	0.6	2.5	7.6	84.9
5 x 1	32 x 0.20	20.0	0.6	2.5	8.4	101
7 x 1 19 x 1	32 x 0.20 32 x 0.20	20.0 20.0	0.6	2.5 2.5	9.1 14.7	132 334
2 x 1.34	19 x 0.30	15.0	0.6	2.7	6.6	62.0
3 x 1.34	19 x 0.30	15.0	0.6	2.7	7.0	77.5
4 x 1.34	19 x 0.30	15.0	0.6	2.7	8.1	102
5 x 1.34	19 x 0.30	15.0	0.6	2.7 2.7	8.9 9.7	122 161
7 x 1.34 2 x 1.5	19 x 0.30	15.0	0.6	2.8		66.0
2 x 1.5	30 x 0.25 30 x 0.25	13.7 13.7	0.6	2.8	6.8 7.6	89.1
4 x 1.5	30 x 0.25	13.7	0.6	2.8	8.3	109
5 x 1.5	30 × 0.25	13.7	0.6	2.8	9.2	131
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.0	172
2 x 2.5	50 x 0.25	8.21	0.7	3.4	8.4	104
3 x 2.5	50 x 0.25	8.21	0.7	3.4	8.9	131
4 x 2.5	50 x 0.25	8.21	0.7	3.4	9.8	162 204
5 x 2.5 7 x 2.5	50 x 0.25 50 x 0.25	8.21 8.21	0.7	3.4 3.4	11.2 12.2	269
2 x 4	56 x 0.30	5.09	0.8	4.2	10.0	153
3 x 4	56 x 0.30	5.09	0.8	4.2	11.1	205
4 x 4 5 x 4	56 x 0.30 56 x 0.30	5.09 5.09	0.8	4.2 4.2	12.1 13.5	253 311
7 x 4	56 x 0.30	5.09	0.8	4.2	14.8	412
2 x 6	84 x 0.30	3.39	0.8	4.8	11.6	216
3 x 6	84 x 0.30	3.39	0.8	4.8	12.4	276
4 x 6	84 × 0.30	3.39	0.8	4.8	13.8	350
5 x 6	84 x 0.30	3.39	0.8	4.8	15.8	444
7 x 6 2 x 10	84 x 0.30 77 x 0.40	3.39 1.95	0.8	4.8 6.4	17.2 15.0	588 350
3 x 10	77 x 0.40	1.95	1.0	6.4	16.6	468
4 x 10	77 x 0.40	1.95	1.0	6.4	18.2	581
5 x 10	77 x 0.40	1.95	1.0	6.4	19.9	693
7 x 10	77 x 0.40	1.95	1.0	6.4	21.8	926
2 x 16	119 x 0.40	1.24	1.2	7.8	18.4	532
3 x 16	119 x 0.40	1.24	1.2	7.8	19.6	681
4 x 16 5 x 16	119 x 0.40 119 x 0.40	1.24 1.24	1.2	7.8 7.8	21.4 23.7	840 1019
7 x 16	119 x 0.40	1.24	1.2	7.8	26.2	1382
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PLASTHERM® 80 °C

PVC insulation **PVC** sheathing **UL** and cUL approval





80 °C - 300 V

AWM II A/B

diameter* of the cable (mm)

4.2

49

5.3

4.9

4.8 5.1

6.0

5.0 5.3

6.2

6.8

5.3

6.2

5.6

6.7

5.5 5.8

6.9 7.5

5.7 6.1 6.6 7.2

8.4

6.3 6.7 7.3

8.0 8.7

6.9 7.4

8.0

8.8

BCDEFG

1 • UL and cUL approved conductors with PVC insulation.

Nominal diameter* of the cond. (mm)

1.25 1.25 1.25 1.25

1.25

1.4

1.4

1.5

1.75 1.75 1.75 1.75 1.75

1.75 1.75 1.75 1.75 1.75

1.9

1.9

1.9

1.9

2.0

2.0

2.1 2.1 2.1 2.1

2.3

2.4 2.4 2.4

2.4

2.7 2.7 2.7 2.7

2 • Outer sheath: PVC.

Nominal

AWG

26

26

26

24

24

24

22

22

20

20

20

18

18

18

16

16

14

14

14

3

3

3

3

3

3

Style no.

Approval

0.13

0.13

0.13

0.13

0.22

0.22

0.22

0.22

0.34

0.34

0.34

0.34

0.5

0.5

0.6

0.6

0.6

0.6

0.75

0.75

0.03

0.93 0.93

0.93

1.34

1.34

1.34

1.5

1.5

Conducting metal

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

2464-Y80 2570-Y80

80 °C - 600 or 1000 V

80 °C - 600	or 1000 V
	AWM II A/B
Nominal	Nominal
diameter*	diameter*
of the cond.	of the cable
(mm)	(mm)
2.1	5.7
2.1	6.1
2.1	6.6
2.1	7.2
2.1	7.8
2.1	7.0
2.2	5.9
2.2	6.3
2.2	6.8
2.2	7.5
2.2	8.1
2.2	0.1
2.3	6.1
2.3	6.5
2.3	7.1
2.3	7.7
2.3	8.4
2.45	6.4
2.45	6.8
2.45	7.4
2.45	8.1
2.45	8.9
2.6	6.7
2.6	7.1
2.6	7.8
2.6	8.5
2.6	9.3
0.75	6.8
2.65	
2.65	7.2
2.65	7.9
2.65	8.7
2.65	9.5
2.00	7.5
2.8	7.1
2.8	7.6
2.8	8.3
2.8	9.1
	9.9
2.8	7.7
2.8	7.1
2.8	7.6
2.8	8.3
2.8	9.1
	9.9
2.8	9.9
3.0	7.5
3.0	8.0
3.0	8.8
3.0	9.6
3.0	10.5
3.1	7.7
3.1	8.2
3.1	9.0
3.1	9.9
3.1	10.8
3.45	8.4
3.45	9.0
3.45	9.8
3.45	10.8
3.45	11.9
DCD	FFC

BCDEFG

KEY Conducting metals

Tin-plated copper

Tin-plated copper (ø > 0.38 mm)

- Nickel-plated copper Silver-plated copper
- Nickel
- Bare copper
- Bare copper (ø > 0.38 mm)
- G Nickel-plated copper 27 %

A I MWA Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring AWM II A/B External or Internal wiring

Not Specified

VNS Voltage Not Specified

: UL approved nominal cross-sections only.

 st The diameter is provided for information purposes as it may vary depending on the stranding of Only the average thickness of insulation or the sheathing should be taken into account.

For this product, please contact:

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PLASTHERM® 90 °C

PVC insulation **PVC** sheathing **UL** and cUL approval





1 • UL and cUL approved conductors with PVC insulation.

2654-Y90

2 • Outer sheath: PVC.

Style no.

Characteristics General

- Continuous operating temperatures: -30 °C to +90 °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 (≥ 90 °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. 2549, 20132, 2550, 2653

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Conducting metals

- Tin-plated copper
- Tin-plated copper (ø > 0.38 mm)
- Nickel-plated copper Silver-plated copper
- Nickel
- Bare copper
- Bare copper (ø > 0.38 mm)
- G Nickel-plated copper 27 %

Internal wiring, not subject to mechanical abuse AWM I A AWM I A/B Internal wiring

AWM II A/BExternal or Internal wiring

Not Specified

VNS Voltage Not Specified

: UL approved nominal cross-sections only.

st The diameter is provided for information purposes as it may vary depending on the stranding of Only the average thickness of insulation or the sheathing should be taken into account.

For this product, please contact:

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Approval 90 °C - 300 V AWM II A/B Nominal Nomina Nominal diameter* of the cond. diameter* of the cable AWG No. of cond. (mm²) (mm) 0.13 1.2 26 26 0.13 4.1 0.13 1.2 1.2 4.4 26 26 0.13 5.1 0.22 24 0.22 1.4 4.5 24 1.4 1.4 24 0.22 24 0.22 22 0.34 22 0.34 1.6 5.0 22 22 0.34 1.6 1.6 0.34 5.8 1.7 1.7 0.5 5.2 0.5 5.6 0.5 6.6 20 20 1.8 0.6 1.8 5.4 20 20 0.6 1.8 0.6 1.8 6.9 0.75 1.9 1.9 0.75 5.6 1.9 0.75 0.75 0.93 2.05 18 0.93 2.05 5.9 18 0.93 6.5 0.93 2.05 18 0.93 2.1 5.7 2.1 6.1 2.1 78 2.3 2.3 16 1.34 6.1 16 1.34 6.5 2.3 34 16 1.34 1.34 2.4 6.3 1.5 2.4 2.4 8.0 1.5 24 8 7 14 14 3 2.7 2.7 74 14 8.0

Nominal diameter* of the cond. diameter of the cable (mm) 2.1 6.1 2.1 6.6 2.1 7.8 5.0 2.2 6.3 22 7.5 2.2 8.1 2.3 6.5 7.1 7.7 2.3 2.45 6.8 2.45 7.4 2 45 89 2.6 7.1 2.6 2.6 8.5 2.6 9.3 2.65 7.2 2.65 2.65 70 8.7 2.65 2.8 8.3 2.8 99 2.8 7.6 2.8 28 01 99 28

3.0

3.0

3.0

3.1

3.1

3.1

3.45

3 45

3.45

3.45

3 45

8.0

8.8 9.6

10.5

8.2 9.0

10.8

8.4

90

9.8

10.8

119

BCDEFG

2587-Y90

90 °C - 600 V

AWM II A/B

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 some cases, for production purposes, a separating tape may be added between two successive layers. 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. ® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

BCDEFG

5

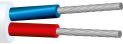
14

Conducting metal

PLASTHERM® 105 °C

PVC insulation **PVC** sheathing **UL** and cUL approval

2 STHERM 105C 300V 2517 🕦 AWM



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

Characteristics

• Continuous operating temperatures: -30 °C to +105 °C. Good resistance to common chemical environments.

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

Standard products

- Single conductors: UL and cUL approved PVC insulated conductors (≥ 105 °C).
 - 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: confact us.
- Other nominal cross-sections: contact us.
- Other style nos. available: styles no. 2589, 2661, 2662, 2501, 2516, 2907, 20155, 20213, 20214, 20811, 20883, 20903.
 Vertical flame test VW-1 for styles 2517 300V, 2586 600V and 2586 1000 V: please consult us.

Conducting metals

B Tin-plated copper

- Tin-plated copper (ø > 0.38 mm)
- Nickel-plated copper
- D Silver-plated copper
- Nickel 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

 st The diameter is provided for information purposes as it may vary depending on the stranding Only the average thickness of insulation or the sheathing should be taken into account.

For this product, please contact:

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2517-Y105 2586-Y105 2586-Y105 Style no. **Approval** 105 °C - 300 V 105 °C - 600 V 105 °C - 1000 V AWM II A/B AWM II A/B AWM II A/B Nominal diameter* of the cond diameter* of the cable diameter* diameter* of the cond. of the cable diameter* diameter* of the cond. of the cable No. of cond. AWG (mm²) (mm) (mm) (mm) (mm) (mm) (mm) 0.13 26 26 0.13 1.2 41 2.1 6.1 2.1 6.1 26 4.4 6.6 6.6 26 7.2 26 0.13 12 5.1 21 78 21 78 0.22 1.4 4.3 22 5.9 22 5.9 24 0.22 1.4 2.2 6.3 2.2 4.5 6.3 24 0.22 1.4 5.3 7.5 22 7.5 0.22 2.2 8.1 22 0.34 1.6 22 0.34 1.6 5.0 22 0.34 1.6 1.6 2.3 22 2.3 5.8 0.34 2.3 2.3 3 6.8 0.5 1.7 5.2 2 45 6.8 2.45 0.5 2.45 7.4 2.45 5.6 0.5 2.45 2.45 0.5 66 2 45 8 9 2 45 89 0.6 1.8 20 7.1 7.8 0.6 7.1 1.8 5.4 2.6 2.6 20 0.6 1.8 64 2.6 8.5 2.6 8.5 0.6 6.9 1.8 2.6 2.6 9.3 0.75 0.75 2.65 2.65 0.75 2 65 70 2 65 70 2.65 0.75 1.9 2.65 2.65 2.65 0.93 18 0.93 2.05 59 2.8 7.6 2.8 18 0.93 2.05 2.8 8.3 2.8 18 0.93 18 0.93 2 0.5 28 99 2.8 99 2 1 5.7 2.8 2.1 6.1 2.8 7.6 2.8 7.6 2.1 72 28 91 28 91 7.8 99 2.1 2.8 2.8 9.9 1.34 2.3 3.0 16 1.34 2.3 6.5 3.0 8.0 16 1.34 2.3 2.3 3.0 8.8 9.6 90 16 1.34 9.9 3.0 10.5 3 1.5 2.4 6.7 3.1 8.2 8.2 9.0 2.4 1.5 2.4 24 8.7 3.1 10.8 3.1 10.8 2.7 9.0 14 7.4 3.45 3.5 9.1 8.0 3.45 9.8 3.5 10.0 14 2.7 8.8 3.45 10.8 3.5 11.0 9.6 3.45 11.9 3.5 12.0

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 some cases, for production purposes, a separating tape may be added between two successive layers. 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. ® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

BCDEFG

BCDEFG

BCDEFG

Conducting metal

PLASTHERM® 90 °C

Polyolefin insulation UL and cUL approval



Characteristics General

 \bullet Continuous operating temperatures: -20 °C to +90 °C. Good resistance to chemical influences.

Electrical

• Rated voltage: 600 V. • Test voltage: 6,000 V.

Standard products

• All colours including two-coloured. • Stranding of conducting cores: contact us.

Approvals - standards

• UL approval as per standard UL758 and cUL approval (CSA) as per standard C22.2 No. 210, File no. E101 965. "Horizontal flame test" as per UL758 standard.

Applications

Internal cabling for electrical appliances.

Options

• Other nominal cross-sections: contact us.

KFY

conducting metals

Tin-plated copper

Tin-plated copper (ø > 0.38 mm) Nickel-plated copper

Silver-plated copper Nickel

D

Bare copper

Bare copper (ø > 0.38 mm)

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

Not Specified

VNS Voltage Not Specified

: UL approved nominal cross-sections only.

 st The diameter is provided for information purposes as it may vary depending on the stranding of

Only the average thickness of insulation should be taken into account.

1 • Bare or tin-plated copper core.

2

PLASTHERM 90C 600 V 10900 🕦 AWM

2 • Insulation: polyolefin.

Sty	e	no.	
Ар	pr	oval	

10900 90 °C - 600 V

		AWN	NIA/B
	Nominal cross-section		Nominal diameter*
AWG	(mm²)	of insulation	(mm)
30	0.05	(mm) 0.38	1.1
28	0.09	0.38	1.1
26	0.13	0.38	1.2
24	0.22	0.38	1.4
22	0.34	0.38	1.5
-	0.5	0.38	1.7
20	0.6	0.38	1.75
-	0.75	0.38	1.9
18	0.93	0.38	2.0
-	1	0.76	2.9
16	1.34	0.76	3.0
-	1.5	0.76	3.1
14	-	0.76	3.4
-	2.5	0.76	3.6
12	-	0.76	3.9
-	4	0.76	4.2
10	-	0.76	4.5
-	6	0.76	4.7
8	-	0.76	5.5
-	10	0.76	6.1
6	-	0.76	6.9

95 4/0 Conducting metal

16

25

35

50

70

1/0

2/0

3/0

BF

0.76

0.76

0.76

0.76

1.52

1.52

1.52

1.52

1.52

1.52

1.52

7.2

8.1

8.6

97

12.4

12.8

13.5

14.6

16.2

16.3

18.1

For this product, please contact:

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HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET • SECTION II:

THERMOPLASTIC INSULATED WIRES AND CABLES

2

1 • Flexible bare copper (PHF2) or tin-plated (PHF2E) core – Class 5 as per IEC 60228.

PLASTHERM® PHF2

Halogen-free insulation flame retardant

-40 °C to +105 °C

356 PLASTHERM PHF2 1000 VOLT 1.5mm

2 • Halogen-free, flame-retardant thermoplastic insulation.

Approvals - standards

- Resistance to vertical flame propagation for a single insulated wire. IEC 60332-1-2 / NF C 32-070 test C2
- Tests on electric cables under fire conditions as per IEC 60332-3-22 (category A): ISSEP test reports no. 1524/2015
- Classification C1 as per NF C 32-070 test no. 1 (LCIE report no. 12/108571-616378A)
 - Halogen-free, low corrosivity and acidity of gases evolved during combustion: EN 60754-1 and EN 60754-2
 - Low smoke opacity: EN 61034-2

Applications

 Internal cabling for electrical and electronic appliances

Characteristics General

- Continuous operating temperatures: -40 °C to +105 °C.
- Halogen-free, flame retardant, low toxicity, corrosivity and smoke opacity
- Good flexibility and mechanical strength, excellent resistance to abrasion.

Electrical

• Rated voltage: 600/1 000 V. • Test voltage: 3 000 V.

Standard products

All solid colours + two-coloured yellow/green

Options

- Solid bare copper core, class 1 as per IEC 60228: ref. PHF2R, see table below).
- American cross-sections AWG: Contact us

PLASTHERM PHF2 and PHF2E

-	Flexible core • class 5 as per IEC 60228		
Nominal cross-section (mm²)	section stranding resistance at 20 °C		at 20 °C
		PHF2	PHF2E
0.5	16 x 0.20	39.0	40.1
0.75	24 × 0.20	26.0	26.7
1	32 × 0.20	19.5	20.0
1.5	30 x 0.25	13.3	13.7
2.5	50 x 0.25	7.98	8.21
4	56 x 0.30	4.95	5.09
6	84 × 0.30	3.30	3.39
10	80 x 0.40	1.91	1.95
16	126 x 0.40	1.21	1.24
25	196 x 0.40	0.78	0.795
35	276 x 0.40	0.554	0.565
50	396 x 0.40	0.386	0.393
70	360 x 0.50	0.272	0.277
95	485 × 0.50	0.206	0.210
120	608 × 0.50	0.161	0.164
150	756 × 0.50	0.129	0.132
185	944 × 0.50	0.106	0.108
240	1221 × 0.50	0.0801	0.0817
300	1525 × 0.50	0.0641	0.0654

1	INSULATED WIRE OR CABLE			
Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)		
0.6	2.20	9.1		
0.6	2.40	11.9		
0.7	2.70	15.2		
0.8	3.10	22.3		
0.8	3.60	33.4		
0.9	4.30	50.1		
0.9	5.00	72.5		
0.9	6.10	113		
1.0	7.10	170		
1.0	8.70	256		
1.1	10.3	364		
1.1	12.1	510		
1.1	13.9	692		
1.4	16.6	972		
1.4	18.2	1202		
1.6	20.2	1503		
1.6	22.4	1849		
1.8	25.4	2376		
1.8	27.6	2909		

Option: PLASTHERM PHF2R

Sol	Solid core • class 1 as per IEC 60228		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	
0.5	1 x 0.80	36.0	
0.75	1 x 0.98	24.5	
1	1 x 1.13	18.1	
1.5	1 x 1.38	12.1	
2.5	1 x 1.77	7.41	
4	1 x 2.24	4.61	

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For this	product,	please	contact:
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LES CABLES DE L'EXTREME

INSULATED WIRE OR CABLE				
Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)		
0.6	2.00	9.35		
0.6	2.20	12.2		
0.7	2.60	15.1		
0.7	2.80	21.6		
0.8	3.40	32.1		
0.8	4.00	48.7		

THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® PHF2E IRD

Halogen-free, flame-retardant insulation with reduced walls

-40 °C to +105 °C

- 1 Concentric tin-plated copper core.
- 2 Halogen-free, flame-retardant thermoplastic insulation, reduced walls

Approvals - standards

- Resistance to vertical flame propagation for a single insulated wire. IEC 60332-1-2 / NF C 32-070 test C2
 - Halogen-free, low corrosivity and acidity of gases evolved during combustion: EN 60754-1 and EN 60754-2
 - Low smoke opacity: EN 61034-2

Applications

• Internal cabling for electrical and electronic appliances

Characteristics

General

- Continuous operating temperatures: -40 °C to +105 °C.
- Halogen-free, flame retardant, low toxicity, corrosivity and smoke opacity
- Good flexibility and mechanical strength, excellent resistance to abrasion.

 Rated voltage: 250 V. • Test voltage: 1 500 V.

Standard products

- All solid colours
- Surface marking (except AWG24)

PLASTHERM PHF2E IRD

Conc	entric tin-pl	ated coppe	rcore
Nominal cross-section (mm²)	Equivalent cross-section AWG	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.22	24	7 x 0.20	92.5
0.34	22	7 x 0.25	59.2
0.6	20	19 x 0.20	33.7
0.93	18	19 x 0.25	21.6
1.34	16	19 x 0.30	15.0

INSU	JLATED WIRE	OR CABLE
Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25	1.10	2.9
0.25	1.30	4.4
0.40	1.75	7.6
0.40	2.00	11.1
0.45	2.35	15.9

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THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® PHFLEX

Cable resistant to alternate bending, halogen-free insulation

-35 °C to +90 °C

3 2 1

356 PLASTHERM PHFLEX 1.5mm²

- 1 Flexible tin-plated copper core Class 6 as per IEC 60228.
- 2 Halogen-free, flame-retardant thermoplastic insulation.
- 3 Halogen-free, flame-retardant thermoplastic insulation.

Aprovals - standards

As per EN 45545-2

- Resistance to vertical flame propagation for a single insulated wire as per EN 60332-1-2 report LAPI n° 1477.0Cl0010/21.
- Low smoke opacity as per standard EN 61034-2 LAPI n° 1477.0CI0260/21.
 - Tests on electric cables under fire conditions as per EN 50305 LAPI n° 1477.1CI0120/21.

Applications

 Cabling for electrical systems requiring high cable flexibility and specific conditions of use (fire, smoke, mechanical fatigue) for railway rolling stock.

Characteristics

- General
 - Continuous operating temperatures: -35 °C to +90 °C.
 - Halogen-free, flame retardant, low smoke toxicity and opacity
 - Excellent flexibility and resistance to alternate bending, excellent resistance to abrasion.

Electrica

Rated voltage: 450 / 750 V.Test voltage: 2 500 V.

Standard products

- Dual layer insulation.
- Solid inner layer, black outer layer or dual-colour yellow/green.

PLASTHERM PHFLEX

Extra-flexible	core – class 6 as	per IEC 60228
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	105 x 0.08	40.1
0.75	152 x 0.08	26.7
1	210 x 0.08	20.0
1.5	192 x 0.10	13.7

INSUL	ATED WIRE O	R CABLE
Nominal thickness of insulation (mm)	Nominal diameter (mm)	Minimum bending radius (mm)
0.6	2.20	10
0.6	2.50	20
0.7	2.70	40
0.8	2 20	50

For this product, please contact:

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PLASTHERM® Style 21209 Polyurethane sheathing **UL and cUL approval**

C **Al** us

No. of cond. AWG 26

26

26

26

STHERM 90C 300V 21209 🕦 AWM

1 • UL approved conductors. 2 • Outer sheath: Polyurethane

Characteristics General

- \bullet Continuous operating temperatures: -20 °C to +90 °C.
- Excellent resistance to common chemical environments.
- Excellent mechanical strength and resistance to abrasion.

 Rated voltage: 125 to 1 000 V according to style no. of single conductors used. • Test voltage: 10 x Rated voltage.

Standard products

- Single conductors: UL and cUL approved PVC insulated conductors (≥ 90 °C -125 °C at 1 000 V).
 - · Standard outer sheath colour: black.
 - 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

• Other outer sheath colours: contact us.

Internal wiring. not subject to mechanical abuse

· Other nominal cross-sections: contact us.

Style no.

0.13

0.13

0.13

21209-E90

90 °C = 300 W **Approval** Single conductor style no.

0.75

0.75

0.75

U	C -	. 300 1	/
Sty	/le '	10125	
		AWM I/II A	/B
			_

34

3.6

21209-W12 90 °C - 600 V Style 10900

1.2

1.2 1.2

AWM I/II

40

45

4.8

21209-F90

90 °C - 1,000 V

V	90 °C -	1,000 V
A/B	Style	10203 AWM I/II A/B
	N 1 1	
ıl r*	Nominal diameter*	Nominal diameter*
le	of the cond. (mm)	of the cable (mm)
	1.5	4.6
	1.5	4.8
	1.5	5.2
	1.5	5.6
	1.5	6.1
	1.65	4.9
	1.65	5.1
	1.65	5.5
	1.65 1.65	6.0
		6.5
	1.8	5.2
	1.8	5.4
	1.8	5.9
	1.8	6.4
	1.8	7.0
	1.95	5.5
	1.95	5.8
	1.95	6.3
	1.95 1.95	6.8 7.4
	2	5.6
	2	5.9
	2	6.4
	2	7.0
	2	7.6
	2.1	5.8
	2.1	6.1
	2.1	6.6
	2.1	7.3
	2.1	7.9
	2.25	6.1
	2.25	6.4
	2.25	7.0
	2.25	7.7
	2.25	8.3
	2.3	6.2
	2.3	6.5
	2.3	7.1
	2.3	7.8 8.5
	2.5	6.6
	2.5	6.9
	2.5	7.6
	2.5	8.3
	2.5	9.1
	2.55	6.7
	2.55	7.0
	2.55	7.7
	2.55	8.5
	2.55	9.2
	2.9	7.4
	2.9	7.8
	2.9	8.6
	2.9	9.4
	2.9	10.3
	ВС	CDF

conducting metals

B Tin-plated copper

Tin-plated copper (a > 0.38 mm)Nickel-plated copper

Silver-plated copper Nickel

Bare copper

: UL approved nominal Bare copper (ø > 0.38 mm) cross-sections only. G Nickel-plated copper 27 %

* The diameter is provided for information purposes as it may vary depending on the stranding of the core.

AWM I A

Only the average thickness of insulation or the sheathing should be taken into account.

For this product, please contact:

AWM I A/B Internal wiring

NS Not Specified
VNS Voltage Not Specified

AWM II A/BExternal or Internal wiring

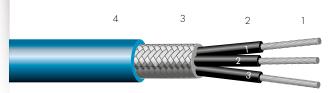
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THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® MYBE-EY-CSI -20 °C to +80 °C INTRINSIC SAFETY



- 1 Flexible tin-plated copper core
- 2 Insulation: PVC 80 °C
- 3 Electrical shielding: tin-plated copper braid.
- 4 Outer sheath: Special blue colour PVC

Applications

· Cable intended for instrumentation and control, for fixed intrinsic safety circuit installations.

Options

- Insulation and/or outer sheath made of PVC 105 °C: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
- Other numbers of conductors: contact us.

Characteristics General

- Continuous operating temperatures: -20 °C to +80 °C.
- · Good resistance to thermal shock.
- Good mechanical strength.
- Good resistance to common chemical environments and hydrocarbons (except aromatic).

Electrical

• Rated voltage: 600/1 000 V. Test voltage: 3 000 V.

Other characteristics

- Flame retardant: Category C2 cables (NF C 32-070) and IEC 60 332-1
- Overlapping of electrical shield ≥ 60 %

Standard products

- Standard conductor colours: black with white numbers.
- Standard outer sheath colour: blue.

Identification

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

< Number of conductors > X < Cross-section > (mm²) (example: 3 X 0.75 mm²).

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 0.75 mm²).

Flexible core • class 5 as per IEC 60228			INSULATED CONDUCTORS		SHEATHED CABLE	
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)
2 x 0.75	24 x 0.20	26.7	0.6	2.35	7.3	75
3 x 0.75	24 x 0.20	26.7	0.6	2.35	7.7	95
4 x 0.75	24 x 0.20	26.7	0.6	2.35	8.3	105
5 x 0.75	24 x 0.20	26.7	0.6	2.35	9.0	125
7 × 0.75	24 x 0.20	26.7	0.6	2.35	9.6	160
12 × 0.75	24 x 0.20	26.7	0.6	2.35	12.9	240
19 x 0.75	24 x 0.20	26.7	0.6	2.35	15.1	350
27 x 0.75	24 x 0.20	26.7	0.6	2.35	17.9	495
37 x 0.75	24 x 0.20	26.7	0.6	2.35	15.4	655
48 x 0.75	24 x 0.20	26.7	0.6	2.35	18.5	837
61 x 0.75	24 x 0.20	26.7	0.6	2.35	20.9	1053

For this product, please contact:

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THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® HP-U

2-conductor flat cable Thin insulation -20 °C to +80 °C



- Solid bare copper core.
- 2 Insulation: PVC.

Applications

• Internal cabling for electric, electronic, audio and video appliances.

Options

- Tin-plated copper core.
- · Other nominal cross-sections: contact us.
- Identification using a coloured longitudinal stripe on one of the two conductors: contact us.

Characteristics

General

- Continuous operating temperatures: -20°C to +80°C.
- Compact design with thin insulation.
- Easy stripping and separating of conductors.

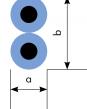
• Rated voltage: 400 V. • Test voltage: 4000 V.

Standard products

All colours including two-coloured.

	SOLID CORE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)
2 x 0.20	1 x 0.50	93.1
2 x 0.28	1 x 0.60	64.7
2 x 0.38	1 x 0.70	36.0
2 x 1.00	1 x 1.13	18.1

INSULATED WIRE				
	ninal outer mensions (mm) b	Approximate linear weight (kg/km)		
1 0	2.7	0.6		
1.2	Z./	0.0		
1.4	3.0	0.85		
1.75	4.0	1.2		
2.4	5.1	2.8		
<u> </u>				



For this product, please contact:

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THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® HP-M

2-conductor flat cable Thin insulation -20 °C to +80 °C



- 1 Flexible bare copper core
- 2 Insulation: PVC.

Applications

• Internal cabling for electric, electronic, audio and video appliances.

Options

- Tin-plated copper core.
- Other nominal cross-sections: contact us.
- Identification using a coloured longitudinal stripe on one of the two conductors: contact us.

Characteristics

General

- Continuous operating temperatures: -20°C to +80°C.
- · Compact design with thin insulation.
- Easy stripping and separating of conductors.

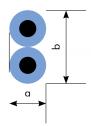
• Rated voltage: 400 V. • Test voltage: 4000 V.

Standard products

All colours including two-coloured.

FLEXIBLE CORE				
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)		
2 x 0.38	12 x 0.20	52.0		
2 x 0.50	16 x 0.20	39.0		
2 x 0.75	24 x 0.20	26.0		
2 x 1	32 x 0.20	19.5		
2 x 1.5	30 x 0.20	13.3		
2 x 2.5	49 x 0.20	7.98		

INSULATED CABLE				
а	Nominal outer Dimensions (mm)	b	Approximate linear weight (kg/km)	
1.3		3.0	0.95	
1.6		3.6	1.3	
2.2		4.5	2.0	
2.5		5.2	2.8	
3.0		6.2	4.0	
3.7		7.8	6.3	



For this product, please contact:

OMERIN division Berne 🗹 La Forie - F 63600 Ambert Tel. (33) 04 73 82 03 81 - Fax (33) 04 73 82 18 69 berne@omerin.com



THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM® HP-M-HT

2-conductor flat cable Thin insulation -20 °C to +105 °C

- 1 Flexible bare copper core2 Insulation: PVC 105°C.

Applications

• Internal cabling for electric, electronic, audio and video appliances.

Options

- Tin-plated copper core.
- · Other nominal cross-sections: contact us.
- Identification using a coloured longitudinal stripe on one of the two conductors: contact us.

Characteristics

General

- Continuous operating temperatures: -20°C to +105°C.
- · Compact design with thin insulation.
- Easy stripping and separating of conductors.

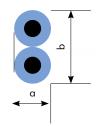
• Rated voltage: 400 V. • Test voltage: 4000 V.

Standard products

All colours including two-coloured.

FLEXIBLE CORE					
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)			
2 x 0.38	12 x 0.20	52.0			
2 x 0.50	16 x 0.20	39.0			
2 x 0.75	24 x 0.20	26.0			
2 x 1	32 x 0.20	19.5			
2 x 1.5	30 x 0.20	13.3			
2 x 2.5	49 x 0.20	7.98			

INSULATED CABLE				
a	Nominal outer Dimensions (mm) b	Approximate linear weight (kg/km)		
1.3	3.0	0.95		
1.6	3.6	1.3		
2.2	4.5	2.0		
2.5	5.2	2.8		
3.0	6.2	4.0		
3.7	7.8	6.3		



For this product, please contact:

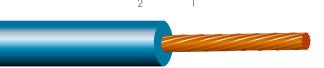
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THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM®

-40°C to +125°C



- 1 Flexible bare copper core (other metal in option) according to IEC 60228.
- 2 Special thermoplastic elastomer.

Applications

- Industry: industrial wiring in hot atmospheres. · Household electrical appliances: wiring of heated household appliances.
 - Electronics: Wiring of measuring devices and systems.

Options

- Bare, nickel-plated or silver-plated copper core.
 - Other nominal cross-sections: contact us. • Other nominal stranding: contact us.
 - Other colour of insulation: contact us.

Characteristics

General

• Continuous operating temperatures: -40°C to +125°C.

Electrical

• Rated voltage: 300 V. • Test voltage: 3000 V.

Nominal cross-section	Nominal stranding	Nominal wall thickness of insulation	Nominal external diameter	Maximum linear resistance at 20 °C
(mm²)	(CuSn)	(mm)	(mm)	(Ω/km)
0.22	7/0.20	0.25	1.15	89.9
0.34	7/0.25	0.25	1.30	57.5
0.5	16/0.20	0.30	1.50	39.0
0.75	24/0.20	0.30	1.80	26.0
Ī	32/0.20	0.35	2.00	19.5
1.5	30/0.25	0.40	2.40	13.3
2.5	50/0.25	0.40	2.90	7.98

For this product, please contact:

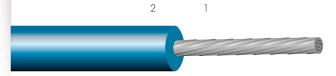
OMERIN division principale 🗹 Zone Industrielle - F 63600 Ambert Tel. (33) 04 73 82 50 00 - Fax (33) 04 73 82 50 10 omerin@omerin.com



THERMOPLASTIC INSULATED WIRES AND CABLES

PLASTHERM®

-40°C to +150°C



- 1 Flexible bare copper core (other metal in option) according to IEC 60228.
- 2 Special thermoplastic elastomer.

Applications

- Industry: industrial wiring in hot atmospheres. · Household electrical appliances: wiring of heated household appliances.
 - Electronics: Wiring of measuring devices and systems.

Options

- Bare, nickel-plated or silver-plated copper core.
 - Other nominal cross-sections: contact us.
 - · Other colour of insulation: contact us.
 - Other nominal stranding: contact us.

Characteristics

General

- Continuous operating temperatures: -40°C to +150°C.
- Excellent resistance to abrasion.
- Good resistance to chemical aggression.
- · Halogen free.

Electrical

• Rated voltage: 600 V. • Test voltage: 6000 V.

Nominal cross-section	Nominal stranding	Nominal wall thickness of insulation	Nominal external diameter	Maximum linear resistance at 20 °C
(mm²)	(CuSn)	(mm)	(mm)	(Ω/km)
0.22	7/0.20	0.15	0.95	92.5
0.34	7/0.25	0.15	1.10	59.2
0.5	16/0.20	0.20	1.35	40.1
0.75	24/0.20	0.20	1.60	26.7
1	32/0.20	0.25	1.90	20.0
1.5	30/0.25	0.30	2.20	13.7
2.5	50/0.25	0.30	2.70	8.21

For this product, please contact:

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Notes	



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