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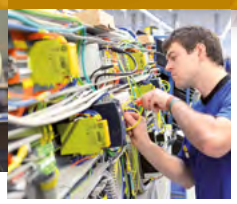
HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET

SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

omerin

LES CABLES DE L'EXTREME

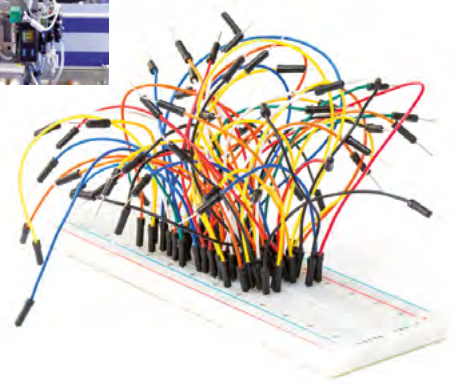






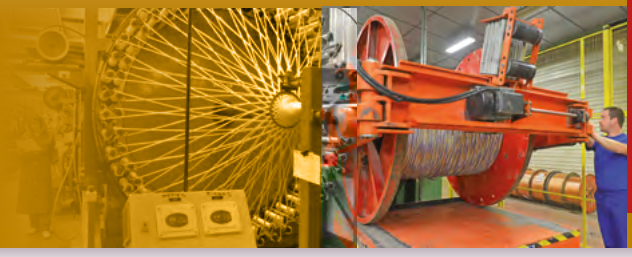






- ***The world's leading manufacturer of silicone-insulated wires and cables***
- ***Europe's leading manufacturer of glass-yarn braids***
- ***France's leading manufacturer of fire safety cables***

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.

Men and women at your service

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 1

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS 2

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION III: COMPOSITE INSULATIONS 3

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CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY 11

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.

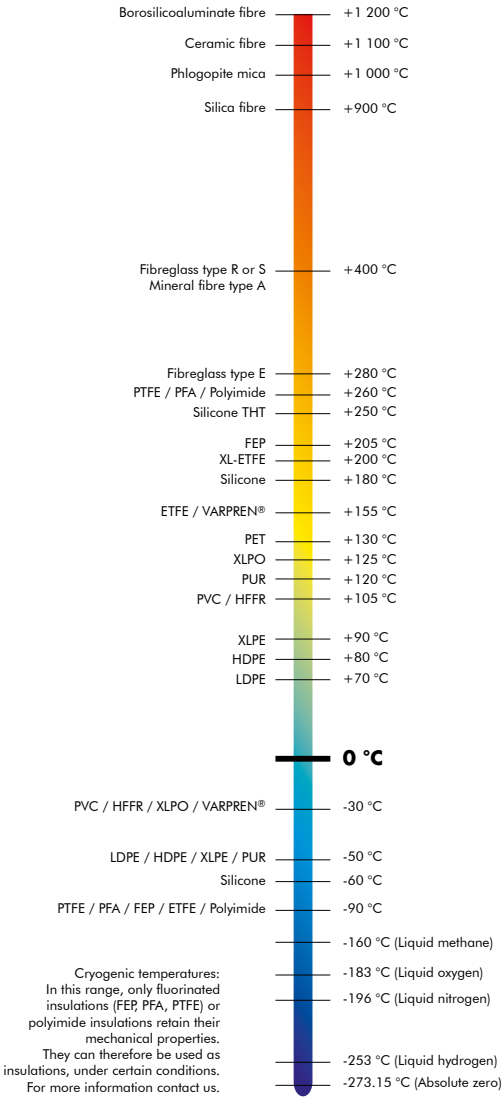
This catalogue, as well as ten others from our collection are available on line with real time updates and much more information at

www.omerin.com

All the trademarks listed below are registered trademarks of the OMERIN Group.

BIO-HABITAT®	Wires and cables for a home without electromagnetic interference
CERAFIL®	Miniature ceramic insulated wires for very high temperatures
COAXRAIL®	Coaxial cables for railway industry
COAXTHERM®	High temperature coaxial cables
COUPLIX®	Pyrometry cables (thermocouples, extension, compensation cables)
DATARAIL®	Data cables for the railway industry
ELECTROAIR®	Aerospace & Defence wires and cables
ENERSYL®	Electrical cables for power station and high risk sites
FLEXBAT®	Extra flexible battery cables
LUMIPLAST®	Wires and cables for lighting systems
METALTRESSE®	High performance metallic braids
MINOROC®	Very high tensile strength synthetic cables
MULTIMAX®	Power, control and instrumentation cables for the marine industry
MULTI-VX®	Hybrid data and power cables
ODIOSIS®	Sound, amplification and loudspeaker cables
OILPLAST®	Cables for industrial environments and intrinsically safe system
OMBILIFLEX®	High performance special multi-function cables
PLASTHERM®	Special thermoplastic insulated wires and cables
POWER CONNECT®	High performance power cords
PROFIPLAST®	Thermoplastic insulated wires and cables
PYRISOL®	Fire resistant power cables for safety circuits
PYRITEL®	Fire resistant communication cables for safety circuits
SILIBOX®	Wire and cables cardboard box packaging system
SILICABLE®	Special high temperature wires and cables
SILICOUL®	Low and medium voltage class H (180°C) power cables
SILIFLAM®	Very high safety cables for extreme temperatures
SILIFLON®	Fluoropolymer insulated high temperature wires and cables
SILIGAINE®	Braided insulating sleevings
SILIRAD®	Electron beam cross-linked cables
SILITUBE®	Braided or extruded tubes
SOLARPLAST®	Power cables for photovoltaic solar panels
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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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

• 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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (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	80.0	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

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

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

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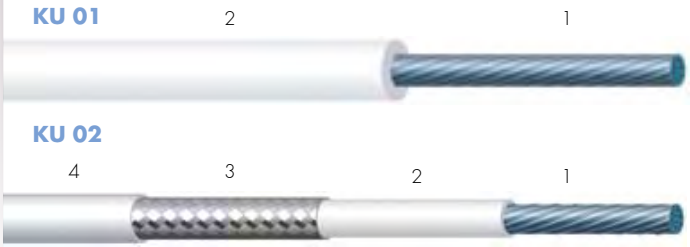
SILIFLON®
KU 01 and KU 02
-55 °C to +150 °C



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 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 CORE				INSULATED WIRE			
				KU 01		KU 02	
Nominal cross-section AWG	(mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
30	0.05	7 x 0.10	365.4	0.63	0.9	1.33	4.7
28	0.09	7 x 0.13	208.0	0.69	1.3	1.39	5.0
26	0.15	19 x 0.10	128.7	0.81	1.9	1.51	5.8
24	0.25	19 x 0.13	76.6	0.91	2.8	1.71	7.2
22	0.38	19 x 0.16	50.3	1.10	4.2	1.96	10.1
20	0.60	19 x 0.20	32.1	1.52	6.9	2.38	13.4
18	0.93	19 x 0.25	20.6	1.80	10.5	2.76	19.3
16	1.34	19 x 0.30	14.3	2.00	14.4	2.96	23.5
14	1.82	37 x 0.25	10.6	2.36	19.5	3.32	30.8
12	3.00	37 x 0.32	6.5	2.89	36.1	3.85	48.1

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

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SILIFLON® 7YA

VDE approval

-90 °C to +135 °C

1 • Flexible bare copper core – class 5 as per IEC 60228 / DIN VDE 0295.
2 • 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.
> 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

Flexible core • class 5 as per IEC 60228			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 or 7 x 0.22	80.7	0.40	1.45	4.6
0.5	16 x 0.20	39.0	0.40	1.7	7.8
0.75	24 x 0.20	26.0	0.40	1.85	9.9
1	32 x 0.20	19.5	0.40	2.0	12.6
1.5	30 x 0.25	13.3	0.50	2.4	18.9
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	43.6
6	84 x 0.30	3.30	0.60	4.3	60.1

Option • R7YA

Solid core • class 1 as per IEC 60228

0.25*	1 x 0.56	73.4	0.40	1.35	4.2
0.5	1 x 0.80	36.0	0.40	1.6	7.1
0.75	1 x 0.98	24.5	0.40	1.8	9.8
1	1 x 1.13	18.1	0.40	1.95	12.4
1.5	1 x 1.36	12.1	0.50	2.4	18.3
2.5	1 x 1.77	7.41	0.60	3.0	30.0
4	1 x 2.24	4.61	0.60	3.45	44.7
6	1 x 2.74	3.08	0.60	3.95	63.9

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

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

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SILIFLON® 7Y

VDE approval

-90 °C to +135 °C

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

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.

7Y

SOLID CORE				INSULATED WIRE		
Standardised reference	Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (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:

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

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SILIFLON® Li7Y

VDE approval

-90 °C to +135 °C

1 • Concentric bare, tin-plated or silver-plated copper core.
2 • 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:

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

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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	(mm^2)		(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						
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	0.17	1.3	6.3
Li7Y 1 x 0.93 /1.55	0.93	19 x 0.25	20.4	0.17	1.55	9.5
Li7Y 1 x 1.3 /1.8	1.3	19 x 0.29	15.8	0.21	1.8	12.8
Li7Y 1 x 1.9 /2.15	1.9	19 x 0.36	10.0	0.23	2.15	19.3
Li7Y 1 x 2.8 /2.7	2.8	37 x 0.31	6.63	0.26	2.7	28.6
Li7Y 1 x 4.6 /3.4	4.6	37 x 0.40	4.13	0.32	3.4	46.8

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

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

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SILIFLON® FEP and EFEP

-90 °C to +205 °C

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

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.

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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (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

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

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

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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.

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 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 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 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 • R6YS

Solid core • class 1 as per IEC 60228					
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

* Nominal cross-sections not described in IEC 60228.

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

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SILIFLON®
6Y6YS and E6Y6YS
Double insulating layer
VDE approval
-90 °C to +180 °C

1 • Multistrand bare (ref. 6Y6YS) or tin-plated (ref. E6Y6YS) copper core.
2 • Insulation: Fluorinated polymer FEP.

Approvals - standards

• VDE approval as per standard DIN VDE 0250 Part 106 -
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

MULTISTRAND CORE				INSULATED WIRE		
Nominal cross-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

Option • 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:

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

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SILIFLON® PFA and EPFA

-90 °C to +260 °C

1 • Bare (ref. PFA) or tin-plated (ref. EPFA) copper core.
2 • 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 EPFA

CONDUCTING CORE			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (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

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

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

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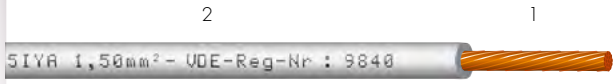
SILIFLON® 51YS

VDE approval

-90 °C to +250 °C



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

Approvals - standards

• VDE approval as per standard DIN VDE 0250 Part 106 - Licence no. 106489.

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

• Flexible tin-plated copper core – ref. E51YS: contact us.
• Flexible nickel-plated copper core – ref. CN51YS: contact us.
• 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.
• Rated voltage 450/750 V – réf. 51YA: contact us.

Characteristics

General

• 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

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

Standard products

• All colours including translucent.

51YS

Flexible core • class 5 as per IEC 60228			INSULATED WIRES		
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 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 core • class 1 as per IEC 60228					
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 x 2.24	4.61	0.40	3.05	42.7
6	1 x 2.74	3.08	0.40	3.55	61.7

* Nominal cross-section not described in IEC 60228.

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

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

1 • Solid bare copper core.
2 • Insulation: Fluorinated polymer ETFE (ref. RETFE) or FEP (ref. RFEP) or PFA (ref. RPFA).

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.

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 x 2.74	3.08	0.35	3.45	60.5

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

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LES CABLES DE L'EXTREME

SILIFLON® 105 °C

Fluoropolymer insulation UL and cUL approval

C US

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.

Style no.		1513		1227		1508		10101	
Insulation		ETFE "Thin-wall"		FEP		ETFE "Thin-wall"		ETFE	
Approval		105 °C – VNS		105 °C – VNS		105 °C – 30 V		105 °C – 250 V	
Nominal cross-section		Average thickness of insulation	Nominal diameter*	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)	(mm)	(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	-	-	0.33	3.9	-	-	-	-
Conducting metal		BCD		BCDEFG		BCD		BCD	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

OMERIN division Berne
La Forie - F 63600 Ambert
Tel. +33 (0)4 73 82 03 81 - Fax +33 (0)4 73 82 18 69
berne@omerin.com

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LES CABLES DE L'EXTREME

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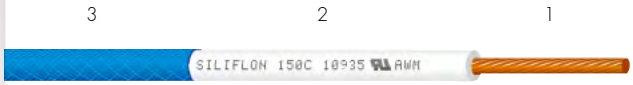
SILIFLON® Style 10935

ETFE insulation + reinforcing braid
UL and cUL approval
-60 °C to +150 °C



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

Approvals - standards

C US

- UL approval as per standard UL 758 – File no.: E101965.
- cUL approval as per standard C22.2 No. 210 (AWM I 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.

Characteristics

General

- 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.		10935			
Approval		150°C - 600 V AWM I A/B			
Nominal cross-section		Average thickness of insulation	Nominal diameter*		Approximate linear weight
			Multistrand core	Solid core	
AWG	(mm²)	(mm)	(mm)		(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
Conducting metal			BF		

* 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

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

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

NS Not Specified
VNS Voltage Not Specified

■ : UL approved nominal cross-sections only.

For this product, please contact:

OMERIN division principale ☑
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

omerin
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www.omerin.com

SILIFLON® Style 11881

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

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 I 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.

Style no.		11881			
Approval		200°C - 600 V AWM I A/B			
Nominal cross-section		Average thickness of insulation	Nominal diameter*		Approximate linear weight
			Multistrand core	Solid core	
AWG	(mm²)	(mm)	(mm)		(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
Conducting metal		B*CDEF*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

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.

SILIFLON® 150 °C

Fluoropolymer insulation UL and cUL approval

C US

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

Style no.	1827	10125	1828	1643
Insulation	ETFE "Thin-wall"	ETFE "Thin-wall"	ETFE	ETFE
Approval	150 °C – 125 V	150 °C – 300 V	150 °C – 300 V	150 °C – 300 V
Nominal cross-section AWG	Nominal cross-section (mm²)	Average thickness of insulation (mm) / Nominal diameter* (mm)	Average thickness of insulation (mm) / Nominal diameter* (mm)	Average thickness of insulation (mm) / Nominal diameter* (mm)	Average thickness of insulation (mm) / Nominal diameter* (mm)
30	0.05	0.14 / 0.6	0.15 / 0.6	0.33 / 0.95	0.33 / 0.95
28	0.09	0.14 / 0.7	0.15 / 0.7	0.33 / 1.05	0.33 / 1.05
26	0.13	0.14 / 0.75	0.15 / 0.75	0.33 / 1.15	0.33 / 1.15
24	0.22	0.14 / 0.9	0.15 / 0.9	0.33 / 1.3	0.33 / 1.3
22	0.34	0.14 / 1.05	0.15 / 1.05	0.33 / 1.4	0.33 / 1.4
-	0.5	0.14 / 1.2	0.15 / 1.25	0.33 / 1.6	0.33 / 1.6
20	0.6	0.14 / 1.3	0.15 / 1.3	0.33 / 1.65	0.33 / 1.65
-	0.75	0.20 / 1.5	0.15 / 1.4	0.33 / 1.75	0.33 / 1.75
18	0.93	0.20 / 1.65	0.15 / 1.55	0.33 / 1.9	0.33 / 1.9
-	1	0.20 / 1.7	0.15 / 1.65	0.33 / 1.95	0.33 / 1.95
16	1.34	0.20 / 1.9	0.20 / 1.9	0.33 / 2.2	0.33 / 2.2
-	1.5	0.20 / 1.9	0.20 / 1.9	0.33 / 2.2	0.33 / 2.2
14	-	0.33 / 2.55	0.20 / 2.5	0.33 / 2.55	0.33 / 2.55
-	2.5	0.33 / 2.7	0.20 / 2.45	0.33 / 2.7	0.33 / 2.7
12	-	0.33 / 3.1	0.25 / 2.9	0.33 / 3.1	0.33 / 3.0
-	4	0.33 / 3.25	0.25 / 3.1	0.33 / 3.25	0.33 / 3.25
10	-	0.33 / 3.7	0.25 / 3.6	0.33 / 3.7	0.33 / 3.9
-	6	0.33 / 3.9	0.25 / 3.7	0.33 / 3.9	0.33 / 3.9
8	-	- / -	0.64 / 5.4	- / -	0.51 / 5.3
-	10	- / -	0.64 / 5.7	- / -	0.51 / 5.4
6	-	- / -	0.64 / 6.6	- / -	0.51 / 6.3
-	16	- / -	0.64 / 6.7	- / -	0.51 / 6.6
4	-	- / -	0.64 / 7.8	- / -	0.51 / 7.4
-	25	- / -	0.64 / 8.3	- / -	0.51 / 8.0
2	35	-	0.89 / 10.0	- / -	0.51 / 9.3
1	-	- / -	0.89 / 11.0	- / -	0.76 / 10.7
-	50	- / -	0.89 / 11.4	- / -	0.76 / 11.1
1/0	-	- / -	1.14 / 12.5	- / -	0.76 / 11.7
2/0	70	- / -	1.14 / 14.0	- / -	0.76 / 12.8
3/0	-	- / -	1.14 / 15.2	- / -	0.76 / 14.4
-	95	- / -	1.14 / 15.4	- / -	0.76 / 14.6
4/0	-	- / -	1.14 / 16.8	- / -	0.76 / 16.0
-	120	- / -	1.14 / 17.1	- / -	0.76 / 16.3
Conducting metal		BCDEFG	BCDEFG	BF	BCDEFG

KEY

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

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

- **NS** Not Specified
- **VNS** Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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Style no.		1333-VW-1		10210		10126-VW-1		1644		1331		11945		10358	
Insulation		FEP		ETFE "Thin-wall"		ETFE "Thin-wall"		ETFE		FEP		ETFE "Thin-wall"		ETFE	
Approval		150 °C – 300 V		150 °C – 600 V		150 °C – 600 V		150 °C – 600 V		150 °C – 600 V		150 °C – 750 V		150 °C – 1000 V (cUL 600 V)	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)														
30	0.05	0.33	0.95	-	-	0.25	0.8	0.51	1.3	0.51	1.3	-	-	0.51	1.3
28	0.09	0.33	1.05	-	-	0.25	0.9	0.51	1.4	0.51	1.4	-	-	0.51	1.4
26	0.13	0.33	1.15	-	-	0.25	1.05	0.51	1.5	0.51	1.5	-	-	0.51	1.5
24	0.22	0.33	1.3	0.15	0.9	0.25	1.15	0.51	1.65	0.51	1.65	0.15	0.9	0.51	1.65
22	0.34	0.33	1.4	0.15	1.05	0.25	1.3	0.51	1.8	0.51	1.8	0.15	1.05	0.51	1.8
-	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	0.51	1.95
20	0.6	0.33	1.65	0.15	1.35	0.25	1.5	0.51	2.0	0.51	2.0	0.15	1.35	0.51	2.0
-	0.75	0.33	1.75	0.15	1.4	0.25	1.55	0.51	2.1	0.51	2.1	0.15	1.4	0.51	2.1
18	0.93	0.33	1.9	0.15	1.55	0.25	1.8	0.51	2.25	0.51	2.25	0.15	1.55	0.51	2.25
-	1	0.33	1.95	0.15	1.65	0.25	1.8	0.51	2.3	0.51	2.3	0.15	1.65	0.51	2.3
16	1.34	0.33	2.2	0.20	1.9	0.25	2.0	0.51	2.5	0.51	2.5	0.20	1.9	0.51	2.5
-	1.5	0.33	2.2	0.20	1.9	0.25	2.0	0.51	2.55	0.51	2.55	0.20	1.9	0.51	2.55
14	-	0.33	2.55	0.20	2.25	0.25	2.4	0.51	2.85	0.51	2.85	0.20	2.25	0.51	2.85
-	2.5	0.33	2.7	0.20	2.45	0.25	2.45	0.51	3.0	0.51	3.0	0.20	2.45	0.51	3.0
12	-	0.33	3.1	0.25	2.9	0.38	3.2	0.51	3.25	0.51	3.3	0.25	2.9	0.51	3.3
-	4	0.33	3.25	0.25	3.1	0.38	3.35	0.51	3.6	0.51	3.6	0.25	3.1	0.51	3.6
10	-	0.33	3.7	0.25	3.6	0.38	4.1	0.51	4.1	0.51	4.1	0.25	3.6	0.51	4.1
-	6	0.33	3.9	-	-	0.38	4.5	0.51	4.3	0.51	4.3	-	-	0.51	4.3
8	-	-	-	-	-	0.64	5.4	0.76	5.6	0.76	5.4	-	-	0.76	5.4
-	10	-	-	-	-	0.64	5.7	0.76	5.9	0.76	5.9	-	-	0.76	5.9
6	-	-	-	-	-	0.64	6.6	0.76	6.8	0.76	6.8	-	-	0.76	6.8
-	16	-	-	-	-	0.64	6.7	0.76	7.1	0.76	7.1	-	-	0.76	7.1
4	-	-	-	-	-	0.64	7.8	0.76	8.0	0.76	8.0	-	-	0.76	8.0
-	25	-	-	-	-	0.64	8.3	0.76	8.5	0.76	8.5	-	-	0.76	8.5
2	35	-	-	-	-	0.89	10.0	0.76	9.6	0.76	9.6	-	-	0.76	9.6
1	-	-	-	-	-	0.89	11.0	1.14	11.2	1.14	11.2	-	-	1.14	11.2
-	50	-	-	-	-	0.89	11.4	1.14	12.0	1.14	12.0	-	-	1.14	12.0
1/0	-	-	-	-	-	1.14	12.5	1.14	12.5	1.14	12.5	-	-	1.14	12.5
2/0	70	-	-	-	-	1.14	14.0	1.14	14.6	1.14	14.0	-	-	1.14	14.0
3/0	-	-	-	-	-	1.14	15.2	1.14	15.2	1.14	15.2	-	-	1.14	15.2
-	95	-	-	-	-	1.14	15.4	1.14	15.4	1.14	15.4	-	-	1.14	15.4
4/0	-	-	-	-	-	1.14	16.8	1.14	16.8	1.14	16.8	-	-	1.14	16.8
-	120	-	-	-	-	1.14	17.1	1.14	17.1	1.14	17.1	-	-	1.14	17.1
Conducting metal		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

omerin
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www.omerin.com

SILIFLON® 200°C

Fluoropolymer insulation UL and cUL approval

C US

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.
- VW-1 approval.

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.

Style no.		10109		10969		1900		1332	
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 thickness of insulation	Nominal diameter*	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)	(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	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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Style no.		10086		10588		1901		1330		1930		10203		10048	
Insulation		ETFE "Thin-wall"		FEP "Thin-wall"		FEP		FEP "Thick-wall"		PFA "Thick-wall"		FEP		FEP "Thick-wall"	
Approval		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 1 000 V		200°C – 1 000 V	
Nominal cross-section		Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*
AWG	(mm^2)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	-	-
Conducting metal		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEG	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

omerin
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www.omerin.com

SILIFLON® 250°C

Fluoropolymer insulation UL and cUL approval

C US

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.
- VW-1 approval.

Characteristics

General

- 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: 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.

Style no.		1933 PFA "Thin-wall"		1882 PFA		10486 PFA	
Insulation							
Approval		250°C – VNS		250°C – 150 V		250°C – 300 V	
Nominal cross-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
Conducting metal		CEG		CEG		CEG	

KEY

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

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

- **NS** Not Specified
- **VNS** Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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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

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Style no.		1726		10362		1727		10371	
Insulation		PFA		PFA "Thin-wall"		PFA		PFA "Thin-wall"	
Approval		250°C – 300 V		250°C – 600 V		250°C – 600 V		250°C – 1000 V (cUL 600 V)	
Nominal cross-section		Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*
AWG	(mm^2)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
30	0.05	0.33	0.95	0.25	0.8	0.51	1.3	0.51	1.3
28	0.09	0.33	1.05	0.25	0.9	0.51	1.4	0.51	1.4
26	0.13	0.33	1.15	0.25	1.0	0.51	1.5	0.51	1.5
24	0.22	0.33	1.3	0.25	1.1	0.51	1.65	0.51	1.65
22	0.34	0.33	1.45	0.25	1.25	0.51	1.8	0.51	1.8
-	0.5	0.33	1.6	0.25	1.4	0.51	1.95	0.51	1.95
20	0.6	0.33	1.65	0.25	1.5	0.51	2.0	0.51	2.0
-	0.75	0.33	1.75	0.25	1.55	0.51	2.1	0.51	2.1
18	0.93	0.33	1.9	0.25	1.8	0.51	2.2	0.51	2.2
-	1	0.33	1.95	0.25	1.8	0.51	2.3	0.51	2.3
16	1.34	0.33	2.2	0.25	2.0	0.51	2.45	0.51	2.45
-	1.5	0.33	2.2	0.25	2.0	0.51	2.65	0.51	2.55
14	-	0.33	2.6	0.25	2.4	0.51	2.85	0.51	2.8
-	2.5	0.33	2.7	0.25	2.55	0.51	3.0	0.51	3.0
12	-	0.33	3.2	0.25	2.9	0.51	3.4	0.51	3.4
-	4	0.33	3.25	0.25	3.1	0.51	3.6	0.51	3.6
10	-	0.33	3.9	0.25	3.6	0.51	4.2	0.51	4.2
-	6	0.33	3.9	0.25	3.7	0.51	4.3	0.51	4.3
8	-	0.51	5.2	0.76	5.8	0.76	5.7	0.76	5.7
-	10	0.51	5.4	0.76	5.9	0.76	5.9	0.76	5.9
6	-	0.51	6.3	0.76	6.8	0.76	6.8	0.76	6.8
-	16	0.51	6.6	0.76	7.1	0.76	7.1	0.76	7.1
4	-	0.76	8.0	0.76	8.0	0.76	8.0	0.76	8.0
-	25	0.76	8.5	0.76	8.5	0.76	8.5	0.76	8.5
2	35	0.76	9.6	0.76	9.6	0.76	9.6	0.76	9.6
1	-	1.14	11.2	1.14	11.2	1.14	11.2	1.14	11.2
-	50	1.14	12.0	1.14	12.0	1.14	12.0	1.14	12.0
1/0	-	1.14	12.5	1.14	12.5	1.14	12.5	1.14	12.5
2/0	70	1.14	14.0	1.14	14.0	1.14	14.0	1.14	14.0
3/0	-	1.14	15.2	1.14	15.2	1.14	15.2	1.14	15.2
-	95	1.14	15.4	1.14	15.4	1.14	15.4	1.14	15.4
4/0	-	1.14	16.8	1.14	16.8	1.14	16.8	1.14	16.8
-	120	1.14	17.1	1.14	17.1	1.14	17.1	1.14	17.1
Conducting metal		CEG		CEG		CEG		CEG	

KEY

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

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

- **NS** Not Specified
- **VNS** Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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www.omerin.com

SILIFLON® KZ 04

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

Standard products

- Standard insulation colours: all solid colours.

KZ 04

CONCENTRIC CORE				INSULATED WIRE	
Nominal cross-section AWG	(mm²)	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:

OMERIN division principale ☑
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

omerin
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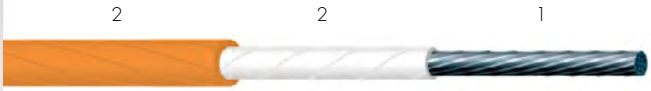
SILIFLON® KZ 05

-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 CORE				INSULATED WIRE	
Nominal cross-section AWG	(mm²)	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:

OMERIN division principale
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

omerin
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www.omerin.com

SILIFLON® KZ 06

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

Standard products

- Standard insulation colours: all solid colours.

KZ 06

CONCENTRIC CORE				INSULATED WIRE	
Nominal cross-section AWG	(mm²)	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:

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

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www.omerin.com

SILIFLON® KZ 07

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

Standard products

- Standard insulation colours: all solid colours.

KZ 07

CONCENTRIC CORE				INSULATED WIRE	
Nominal cross-section AWG	(mm²)	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:

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

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www.omerin.com

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

CONCENTRIC CORE				INSULATED WIRE	
Nominal cross-section AWG	(mm²)	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:

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

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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

CONCENTRIC CORE				INSULATED WIRE	
Nominal cross-section AWG	(mm²)	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:

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

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SILIFLON® CN5YS and A5YS

VDE approval

-90 °C to +250 °C

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.

Approvals - standards

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

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.
• 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 IEC 60228			INSULATED WIRE		
Nominal cross-section (mm^2)	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:

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

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SILIFLON® Style 10506

PTFE insulation
UL and cUL approval
-90 °C to +250 °C

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

Approvals - standards

C UL US

- 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

- 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

MULTISTRAND CORE			INSULATED WIRE		
Nominal cross-section AWG	Nominal cross-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 x 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:

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

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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.

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 °C to +155 °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*

CONDUCTING CORE			12 KV		15 KV		20 KV		25 KV		30 KV	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal diameter (mm)	Approximate linear weight (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

* Pulse voltage.

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

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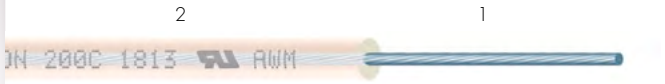
SILIFLON® HT

Ignition wires
UL and cUL approval

C US



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

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

Options

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

Characteristics

General

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

Electrical

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

Standard products

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

Style no.		10185-E150		1911-F150		1813		10185-E200		1911-F250	
Approval		150 °C – 10 KV AC** (cUL 600 V)		150 °C – 20 KV DC** (cUL 1000 V)		200 °C – 3000 V (cUL 1000 V)		200 °C – 10 KV AC** (cUL 150°C -600 V)		250 °C – 20 KV DC**	
Nominal cross-section AWG	(mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
30	0.05	-	-	-	-	0.64	1.6	-	-	-	-
28	0.09	-	-	-	-	0.64	1.7	-	-	-	-
26	0.13	-	-	-	-	0.64	1.8	-	-	-	-
24	0.22	0.36	1.4	0.48	1.6	0.64	1.9	0.36	1.4	0.61	1.8
22	0.34	0.36	1.5	0.48	1.75	0.64	2.05	0.36	1.5	0.61	1.95
-	0.5	0.36	1.65	0.48	1.9	0.64	2.2	0.36	1.65	0.61	2.15
20	0.6	0.36	1.7	0.48	2.0	0.64	2.3	0.36	1.7	0.61	2.15
-	0.75	0.36	1.85	0.48	2.1	0.64	2.4	0.36	1.85	0.61	2.35
18	0.93	0.36	2.0	0.48	2.2	0.64	2.55	0.36	2.0	0.61	2.5
-	1	0.36	2.05	0.48	2.25	0.64	2.6	0.36	2.05	0.61	2.55
16	1.34	0.36	2.2	0.48	2.5	0.64	2.8	0.36	2.2	0.61	2.7
-	1.5	0.36	2.3	0.48	2.55	0.64	2.9	0.36	2.3	0.61	2.8
14	-	0.36	2.6	0.48	2.9	0.64	3.15	0.36	2.6	0.61	3.0
-	2.5	0.36	2.8	0.48	3.0	0.64	3.35	0.36	2.8	0.61	3.3
12	-	0.36	3.1	0.48	3.35	0.64	3.65	0.36	3.1	0.61	3.6
-	4	0.36	3.4	0.48	3.6	0.64	3.9	0.36	3.4	0.61	3.85
10	-	0.36	3.8	0.48	4.0	0.64	4.3	0.36	3.8	0.61	4.25
-	6	0.36	3.9	0.48	4.2	0.64	4.5	0.36	3.9	0.61	4.4
Conducting metal		BCDEFG		BCDEFG		B*CDEFG		B*CDEF*G		CEG	

KEY

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

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

- **NS** Not Specified
- **VNS** Voltage Not Specified

■: UL approved nominal cross-sections only.

* The diameter is provided for information purposes as it may vary depending on the stranding of the core. Only the average thickness of insulation should be taken into account.
** Pulse voltage.

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

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LES CABLES DE L'EXTREME

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.

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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

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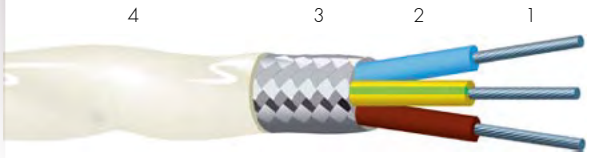
Flexible core • class 5 as per IEC 60228			INSULATED CONDUCTORS		SHEATHED CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	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 x 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:

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

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

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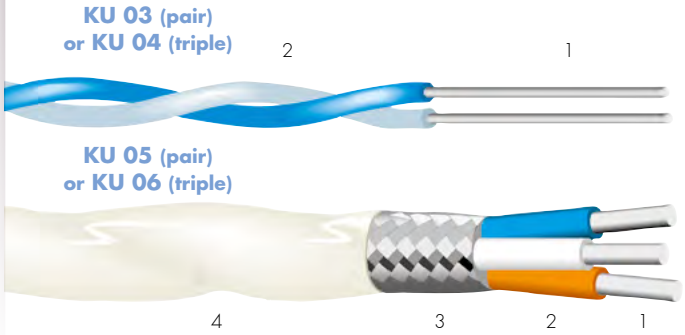
Flexible core • class 5 as per IEC 60228			INSULATED CONDUCTORS		SHEATHED CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	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 x 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 x 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 x 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:

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

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



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.

CONDUCTORS (TYPE KU 01)					KU 03		KU 04		KU 05		KU 06	
Nominal cross-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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Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

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SILIFLON® 150 °C

Fluoropolymer insulation
Fluoropolymer sheathing
UL and cUL approval

1 • UL and cUL approved conductors with fluoropolymer insulation.
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, or aluminium tape + continuity wire.
- Other outer sheath colours: contact us.
- Other nominal cross-sections: contact us.
- Conductors with a silicone insulation : contact us.

Style no.	20221-E150	20905-E150	20222-E150
Insulation	ETFE "Thin-wall"	ETFE "Thin-wall"	ETFE "Thin-wall"
Approval	150 °C – 300 V AWM II A/B (Wall 0.25 mm)	150 °C – 300 V AWM II A/B (Wall 0.51 mm)	150 °C – 600 V AWM II A/B (Wall 0.38 mm)

Nominal cross-section			Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
No. of cond.	AWG	(mm²)						
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	24	0.22	0.9	2.8	0.9	3.2	1.15	3.5
5	24	0.22	0.9	3.0	0.9	3.5	1.15	3.9
7	24	0.22	0.9	3.3	0.9	3.7	1.15	4.3
2	22	0.34	1.05	2.7	1.05	3.1	1.3	3.4
3	22	0.34	1.05	2.9	1.05	3.3	1.3	3.6
4	22	0.34	1.05	3.1	1.05	3.6	1.3	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	18	0.93	1.55	4.5	1.55	4.8	1.8	5.1
5	18	0.93	1.55	5.0	1.55	5.2	1.8	5.7
7	18	0.93	1.55	5.5	1.55	5.7	1.8	6.4
2	-	1	1.65	4.1	1.65	4.3	1.8	4.4
3	-	1	1.65	4.4	1.65	4.6	1.8	4.7
4	-	1	1.65	4.8	1.65	5.0	1.8	5.1
5	-	1	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
Conducting metal			BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections

* The diameter is provided for information purposes only 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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

SILIFLON® 200 °C

Fluoropolymer insulation
Fluoropolymer sheathing
UL and cUL approval

C UL US

1 • UL and cUL approved conductors with fluoropolymer insulation.
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 °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

- Electrical shielding: Tin-plated copper braid, or aluminium tape + continuity wire.
- Other outer sheath colours: contact us.
- Other nominal cross-sections: contact us.
- Conductors with a silicone insulation : contact us.
- Other style nos. available: styles no. 2895, 20262, 20920.

Style no.	20711-F200	20711-F200	2749-F200
Insulation	ETFE "Thin-wall"	FEP	ETFE "Thin-wall"
Approval	200 °C – 300 V AWM I A/B (Wall 0.25 mm)	200 °C – 300 V AWM I A/B (Wall 0.25 mm)	200 °C – 300 V AWM I A/B (Wall 0.51 mm)

Nominal cross-section			Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
No. of cond.	AWG	(mm²)						
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	24	0.22	0.9	3.0	1.1	3.6	0.9	3.4
7	24	0.22	0.9	3.3	1.1	4.1	0.9	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	1.5	5.3	1.3	4.9
2	-	0.75	1.4	3.4	1.55	3.9	1.4	3.8
3	-	0.75	1.4	3.8	1.55	4.1	1.4	4.0
4	-	0.75	1.4	4.1	1.55	4.5	1.4	4.3
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
2	-	1	1.65	4.1	1.8	4.4	1.65	4.3
3	-	1	1.65	4.3	1.8	4.7	1.65	4.5
4	-	1	1.65	4.7	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	-	1.5	1.9	5.3	2.0	5.6	1.9	5.5
5	-	1.5	1.9	6.1	2.0	6.4	1.9	6.1
7	-	1.5	1.9	6.7	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
Conducting metal			B*CDEF*G		B*CDEG		B*CDEF*G	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

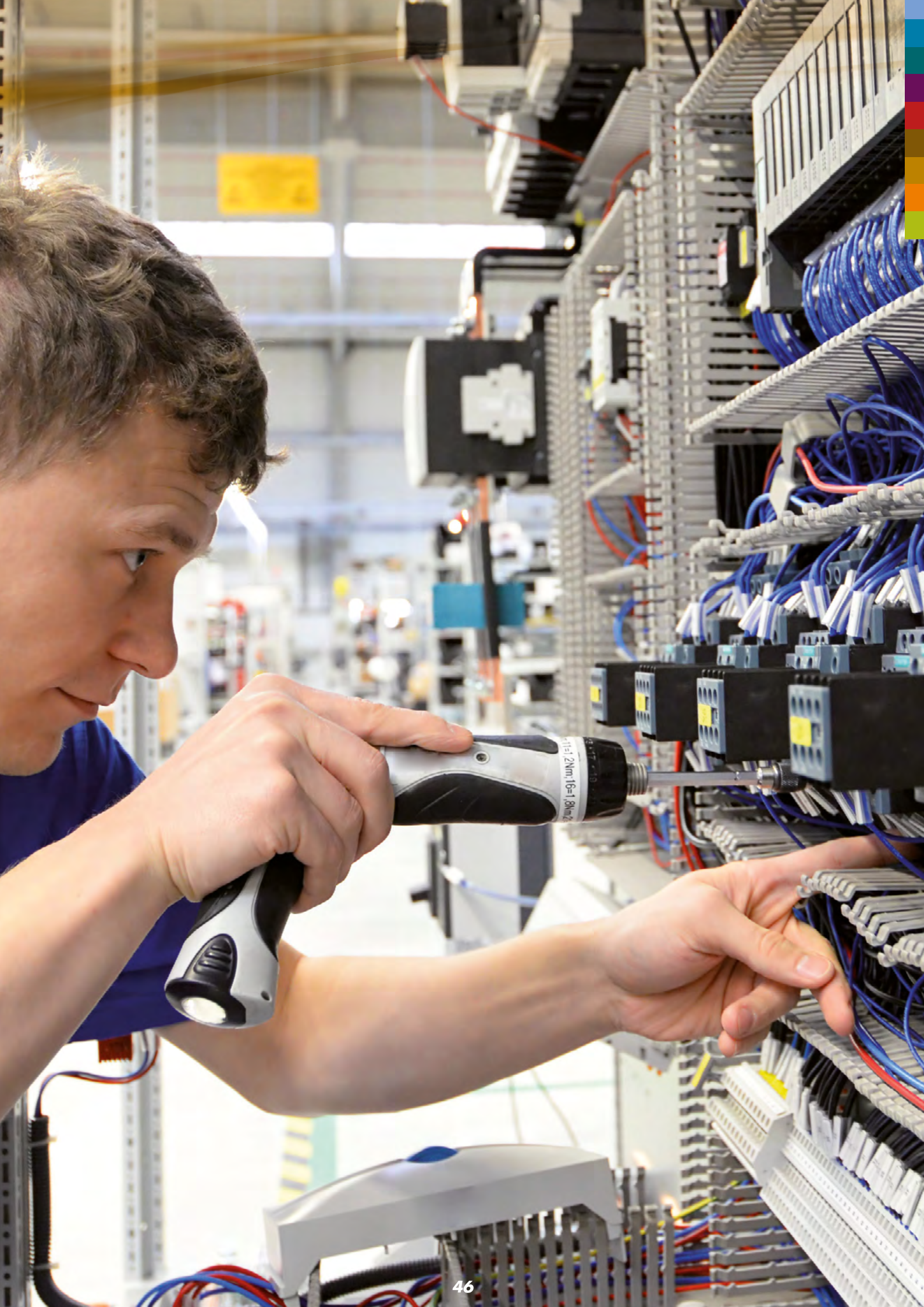
* The diameter is provided for information purposes as it may vary depending on the stranding of the core.
Only the average thickness of insulation or the sheathing should be taken into account.

For this product, please contact:

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

Style no.			2749-F200		20710-F200		20710-F200		2750-F200		2750-F200	
Insulation			FEP		ETFE "Thin-wall"		FEP		ETFE "Thin-wall"		FEP	
Approval			200 °C – 300 V AWM I A/B (Wall 0.25 mm)		200 °C – 600 V AWM I A/B (Wall 0.30 mm)		200 °C – 600 V AWM I A/B (Wall 0.30 mm)		200 °C – 600 V AWM I A/B (Wall 0.51 mm)		200 °C – 600 V AWM I A/B (Wall 0.51 mm)	
	Nominal cross-section		Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
No. of cond.	AWG	(mm²)										
2	26	0.13	1.0	3.0	1.0	2.6	1.2	3.0	1.0	3.0	1.2	3.4
3	26	0.13	1.0	3.2	1.0	2.7	1.2	3.2	1.0	3.1	1.2	3.6
4	26	0.13	1.0	3.4	1.0	3.0	1.2	3.5	1.0	3.4	1.2	3.9
5	26	0.13	1.0	3.7	1.0	3.3	1.2	4.0	1.0	3.7	1.2	4.3
7	26	0.13	1.0	4.0	1.0	3.6	1.2	4.4	1.0	4.0	1.2	4.6
2	24	0.22	1.1	3.2	1.1	2.8	1.35	3.3	1.1	3.2	1.35	3.7
3	24	0.22	1.1	3.4	1.1	2.9	1.35	3.5	1.1	3.3	1.35	3.9
4	24	0.22	1.1	3.7	1.1	3.2	1.35	4.1	1.1	3.6	1.35	4.3
5	24	0.22	1.1	4.0	1.1	3.5	1.35	4.4	1.1	3.9	1.35	4.7
7	24	0.22	1.1	4.3	1.1	4.1	1.35	4.9	1.1	4.3	1.35	5.1
2	22	0.34	1.25	3.5	1.25	3.1	1.45	3.5	1.25	3.5	1.45	3.9
3	22	0.34	1.25	3.7	1.25	3.3	1.45	3.9	1.25	3.7	1.45	4.2
4	22	0.34	1.25	4.0	1.25	3.8	1.45	4.3	1.25	4.0	1.45	4.5
5	22	0.34	1.25	4.4	1.25	4.1	1.45	4.7	1.25	4.3	1.45	4.9
7	22	0.34	1.25	4.8	1.25	4.5	1.45	5.2	1.25	4.7	1.45	5.4
2	-	0.5	1.4	3.8	1.4	3.4	1.65	4.1	1.4	3.8	1.65	4.3
3	-	0.5	1.4	4.0	1.4	3.8	1.65	4.4	1.4	4.0	1.65	4.6
4	-	0.5	1.4	4.4	1.4	4.1	1.65	4.8	1.4	4.3	1.65	5.0
5	-	0.5	1.4	4.8	1.4	4.5	1.65	5.3	1.4	4.8	1.65	5.5
7	-	0.5	1.4	5.2	1.4	5.0	1.65	5.8	1.4	5.2	1.65	6.0
2	20	0.6	1.5	4.0	1.5	3.6	1.7	4.2	1.5	4.0	1.7	4.4
3	20	0.6	1.5	4.3	1.5	4.0	1.7	4.5	1.5	4.2	1.7	4.7
4	20	0.6	1.5	4.6	1.5	4.4	1.7	4.9	1.5	4.6	1.7	5.1
5	20	0.6	1.5	5.1	1.5	4.8	1.7	5.4	1.5	5.0	1.7	5.6
7	20	0.6	1.5	5.5	1.5	5.3	1.7	6.1	1.5	5.5	1.7	6.1
2	-	0.75	1.55	4.1	1.55	3.9	1.8	4.4	1.55	4.1	1.8	4.6
3	-	0.75	1.55	4.4	1.55	4.1	1.8	4.7	1.55	4.3	1.8	4.9
4	-	0.75	1.55	4.8	1.55	4.5	1.8	5.1	1.55	4.7	1.8	5.4
5	-	0.75	1.55	5.2	1.55	4.9	1.8	5.7	1.55	5.2	1.8	5.9
7	-	0.75	1.55	5.7	1.55	5.4	1.8	6.4	1.55	5.6	1.8	6.4
2	18	0.93	1.7	4.4	1.8	4.4	2.0	4.8	1.8	4.6	2.0	5.0
3	18	0.93	1.7	4.7	1.8	4.6	2.0	5.1	1.8	4.9	2.0	5.3
4	18	0.93	1.7	5.1	1.8	5.1	2.0	5.6	1.8	5.3	2.0	5.8
5	18	0.93	1.7	5.6	1.8	5.6	2.0	6.4	1.8	5.8	2.0	6.4
7	18	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
3	-	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
2	16	1.34	2.0	5.0	2.0	4.8	2.2	5.2	2.0	5.0	2.2	5.4
3	16	1.34	2.0	5.3	2.0	5.1	2.2	5.6	2.0	5.3	2.2	5.8
4	16	1.34	2.0	5.8	2.0	5.6	2.2	6.3	2.0	5.8	2.2	6.3
5	16	1.34	2.0	6.4	2.0	6.4	2.2	6.9	2.0	6.4	2.2	7.0
7	16	1.34	2.0	7.0	2.0	7.0	2.2	7.6	2.0	7.0	2.2	7.6
2	-	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	-	1.5	2.0	5.8	2.0	5.6	2.3	6.5	2.0	5.8	2.3	6.6
5	-	1.5	2.0	6.4	2.0	6.4	2.3	7.2	2.0	6.4	2.3	7.2
7	-	1.5	2.0	7.0	2.0	7.0	2.3	7.9	2.0	7.0	2.3	7.9
2	14	-	2.4	5.8	2.4	5.6	2.6	6.2	2.4	5.8	2.6	6.2
3	14	-	2.4	6.2	2.4	6.1	2.6	6.6	2.4	6.2	2.6	6.6
4	14	-	2.4	6.8	2.4	6.7	2.6	7.3	2.4	6.8	2.6	7.3
5	14	-	2.4	7.5	2.4	7.4	2.6	8.2	2.4	7.5	2.6	8.2
7	14	-	2.4	8.4	2.4	8.4	2.6	9.0	2.4	8.4	2.6	9.0
	Conducting metal		B*CDEG		B*CDEF*G		B*CDEF*G		B*CDEF*G		B*CDEF*G	



THERMOPLASTIC INSULATED WIRES AND CABLES

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2202	PLASTHERM 80 °C - PVC insulation	c UL us	50
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2205	PLASTHERM Style 20199, 2-conductor flat cable	c UL us	55
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PLASTHERM® Y2 and EY2

-30 °C to +105 °C

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

Applications

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

Options

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

Characteristics

General

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

Electrical

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

Standard products

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

For this product, please contact:

OMERIN division principale ☑
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

omerin
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www.omerin.com

Y2 and EY2

Flexible core			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (Tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.12	7 x 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 x 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 x 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 x 0.40	1.95	1.0	6.4	111
16	119 x 0.40	1.24	1.2	7.8	169

Option • RY2 and REY2

Solid core			INSULATED WIRE		
0.22	1 x 0.52	85.9	0.4	1.3	3.5
0.34	1 x 0.64	54.1	0.45	1.5	4.9
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

Option • Y2-ES and EY2-ES

Extra-flexible core			INSULATED WIRE		
0.05	24 x 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
0.75	390 x 0.05 or 200 x 0.07 or 100 x 0.10	27.1	0.5	2.2	10.5
1	520 x 0.05 or 260 x 0.07 or 120 x 0.10	20.4	0.55	2.5	13.8
1.5	750 x 0.05 or 390 x 0.07 or 190 x 0.10	13.7	0.55	2.8	18.7

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

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

PLASTHERM® 80 °C

PVC insulation
UL and cUL approval

C US

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		1497		1581	
Approval		80 °C – 300 V		80 °C – 300 V		80 °C – 300 V	
Nominal cross-section AWG	Nominal cross-section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
30	0.05	0.38	1.1	-	-	-	-
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	-	-	-	-	-	-
Conducting metal		BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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Style no.		10053		1011		10381		1030	
Approval		80 °C – 300 V		80 °C – 600 V		80 °C – 600 V		80 °C – 1000 V	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm^2)								
30	0.05	0.56	1.45	0.76	1.85	0.51	1.3	0.76	1.85
28	0.09	0.56	1.5	0.76	1.9	0.51	1.4	0.76	1.9
26	0.13	0.56	1.6	0.76	2.1	0.51	1.5	0.76	2.1
24	0.22	0.56	1.75	0.76	2.2	0.51	1.65	0.76	2.2
22	0.34	0.56	1.9	0.76	2.3	0.51	1.8	0.76	2.3
-	0.5	0.56	2.05	0.76	2.45	0.64	2.2	0.76	2.45
20	0.6	0.56	2.1	0.76	2.6	0.64	2.25	0.76	2.6
-	0.75	0.56	2.25	0.76	2.65	0.64	2.4	0.76	2.65
18	0.93	0.56	2.35	0.76	2.8	0.64	2.55	0.76	2.8
-	1	0.56	2.45	0.76	2.8	0.64	2.6	0.76	2.8
16	1.34	0.56	2.6	0.76	3.0	0.69	2.9	0.76	3.0
-	1.5	0.56	2.7	0.76	3.1	0.69	3.0	0.76	3.1
14	-	0.56	3.0	0.76	3.45	0.69	3.3	0.76	3.45
-	2.5	0.56	3.2	0.76	3.6	0.69	3.45	0.76	3.6
12	-	0.56	3.5	0.76	3.9	0.69	3.75	0.76	3.9
-	4	0.56	3.75	0.76	4.3	0.69	4.0	0.76	4.3
10	-	0.56	4.1	0.76	4.5	0.69	4.4	0.76	4.5
-	6	0.56	4.3	0.76	4.8	0.69	4.6	0.76	4.8
8	-	-	-	1.14	6.2	0.76	5.5	-	-
-	10	-	-	1.14	6.6	0.76	6.1	-	-
6	-	-	-	1.52	8.2	0.76	6.9	-	-
-	16	-	-	1.52	8.6	0.76	7.2	-	-
4	-	-	-	1.52	9.6	1.14	8.9	-	-
-	25	-	-	1.52	10.0	1.14	9.4	-	-
2	35	-	-	1.52	11.0	1.14	10.5	-	-
1	-	-	-	2.03	13.0	1.52	12.4	-	-
-	50	-	-	2.03	14.2	1.52	12.8	-	-
1/0	-	-	-	2.03	14.6	1.52	13.5	-	-
2/0	70	-	-	2.03	16.2	1.52	14.6	-	-
3/0	-	-	-	2.03	17.6	1.52	16.2	-	-
-	95	-	-	2.03	17.8	1.52	16.3	-	-
4/0	-	-	-	2.03	19.1	2.03	19.1	-	-
-	120	-	-	2.03	20.5	2.03	20.5	-	-
Conducting metal		BCDEFG		BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

- **NS** Not Specified
- **VNS** Voltage Not Specified

■: UL approved nominal cross-sections only.

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PLASTHERM® 105 °C

PVC insulation
UL and cUL approval

C US

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		10012	
Approval		105 °C – 300 V		105 °C – 300 V		105 °C – 300 V		105 °C – 600 V	
Nominal cross-section AWG	Nominal cross-section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
30	0.05	0.38	1.1	0.38	1.1	-	-	0.51	1.3
28	0.09	0.38	1.15	0.38	1.15	-	-	0.51	1.4
26	0.13	0.38	1.2	0.38	1.25	0.89	2.3	0.51	1.5
24	0.22	0.38	1.4	0.38	1.4	0.89	2.4	0.51	1.65
22	0.34	0.38	1.6	0.38	1.5	0.89	2.55	0.51	1.8
-	0.5	0.38	1.7	0.38	1.7	0.89	2.7	0.51	1.95
20	0.6	0.38	1.8	0.38	1.75	0.89	2.75	0.51	2.0
-	0.75	0.38	1.9	0.38	1.9	0.89	2.9	0.51	2.15
18	0.93	0.38	2.05	0.38	2.0	0.89	3.1	0.51	2.25
-	1	0.38	2.1	0.38	2.1	0.89	3.1	0.51	2.35
16	1.34	0.38	2.3	0.38	2.3	0.89	3.4	0.51	2.5
-	1.5	0.38	2.4	0.38	2.4	0.89	3.4	0.51	2.7
14	-	0.38	2.7	0.51	2.9	0.89	3.7	0.51	2.9
-	2.5	0.38	2.8	0.51	3.1	0.89	3.9	0.51	3.1
12	-	0.38	3.2	0.51	3.4	0.89	4.3	0.51	3.4
-	4	0.38	3.4	0.51	3.65	0.89	4.5	0.51	3.65
10	-	0.38	3.8	0.51	4.0	0.89	4.9	0.51	4.0
-	6	0.38	4.0	0.51	4.2	0.89	5.1	0.51	4.2
8	-	0.76	5.5	0.76	5.5	0.89	5.8	0.76	5.5
-	10	0.76	6.1	0.76	6.1	0.89	6.4	0.76	6.1
6	-	0.76	6.9	0.76	6.9	0.89	7.1	1.14	7.6
-	16	0.76	7.2	0.76	7.2	0.89	7.4	1.14	7.7
4	-	0.76	8.1	0.76	8.1	0.89	8.4	1.14	8.9
-	25	0.76	8.6	0.76	8.6	0.89	9.0	1.14	9.4
2	35	0.76	9.7	0.76	9.7	0.89	10.0	1.14	10.5
1	-	-	-	1.02	11.4	0.89	11.2	1.52	12.4
-	50	-	-	1.02	11.8	0.89	11.5	1.52	12.8
1/0	-	-	-	1.02	12.5	0.89	12.2	1.52	13.5
2/0	70	-	-	1.27	14.1	0.89	13.3	1.52	14.6
3/0	-	-	-	1.27	15.7	0.89	14.9	1.52	16.2
-	95	-	-	1.27	15.8	0.89	15.1	1.52	16.3
4/0	-	-	-	1.27	17.3	0.89	16.5	-	-
-	120	-	-	1.27	17.6	0.89	16.8	-	-
Conducting metal		BCDEFG		BCDEFG		BF		BCDEFG	

KEY

Conducting metals
- B Tin-plated copper
- B* Tin-plated copper (ø > 0.38 mm)
- C Nickel-plated copper
- D Silver-plated copper
- E Nickel
- F Bare copper
- F* Bare copper (ø > 0.38 mm)
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- 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.

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Style no.		1015		1283		1897		10914		10271		10269	
Approval		105 °C – 600 V		105 °C – 600 V		105 °C –600 V		105 °C –1 000 V		105 °C –1 000 V		105 °C – 1 000 V	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)												
30	0.05	0.76	1.85	-	-	-	-	-	-	0.51	1.3	0.76	1.85
28	0.09	0.76	1.9	-	-	-	-	0.38	1.15	0.51	1.4	0.76	1.9
26	0.13	0.76	2.1	-	-	0.89	2.3	0.38	1.2	0.51	1.5	0.76	2.1
24	0.22	0.76	2.2	-	-	0.89	2.4	0.38	1.4	0.51	1.65	0.76	2.2
22	0.34	0.76	2.3	-	-	0.89	2.55	0.38	1.6	0.51	1.75	0.76	2.3
-	0.5	0.76	2.45	-	-	0.89	2.7	0.38	1.7	0.51	1.95	0.76	2.45
20	0.6	0.76	2.6	-	-	0.89	2.75	0.38	1.8	0.51	2.0	0.76	2.5
-	0.75	0.76	2.65	-	-	0.89	2.9	0.38	1.9	0.51	2.15	0.76	2.65
18	0.93	0.76	2.8	-	-	0.89	3.2	0.38	2.05	0.51	2.3	0.76	2.8
-	1	0.76	2.8	-	-	0.89	3.2	0.38	2.1	0.51	2.35	0.76	2.8
16	1.34	0.76	3.0	-	-	0.89	3.4	0.38	2.3	0.51	2.5	0.76	3.1
-	1.5	0.76	3.1	-	-	0.89	3.4	0.38	2.4	0.51	2.7	0.76	3.1
14	-	0.76	3.45	-	-	0.89	3.7	0.38	2.7	0.51	2.9	0.76	3.5
-	2.5	0.76	3.6	-	-	0.89	3.9	0.38	2.8	0.51	3.1	0.76	3.6
12	-	0.76	3.9	-	-	0.89	4.4	0.38	3.2	0.51	3.4	0.76	3.9
-	4	0.76	4.3	-	-	0.89	4.5	0.51	3.65	0.51	3.65	0.76	4.3
10	-	0.76	4.5	-	-	0.89	4.9	0.51	4.0	0.51	4.0	0.76	4.5
-	6	0.76	4.8	-	-	0.89	5.1	0.76	4.8	0.51	4.2	0.76	4.8
8	-	1.14	6.2	1.52	7.0	0.89	5.8	0.76	5.5	0.76	5.5	1.14	6.2
-	10	1.14	6.6	1.52	7.6	0.89	6.4	0.76	6.1	0.76	6.1	1.14	6.6
6	-	1.52	8.2	1.52	8.2	0.89	7.1	0.76	6.9	1.14	7.6	1.52	8.2
-	16	1.52	8.6	1.52	8.6	0.89	7.4	0.76	7.2	1.14	7.7	1.52	8.6
4	-	1.52	9.6	1.52	9.6	0.89	8.4	1.0	8.6	1.14	8.9	1.52	9.6
-	25	1.52	10.0	1.52	10.0	0.89	9.0	1.0	9.1	1.14	9.4	1.52	10.0
2	35	1.52	11.4	1.52	11.0	0.89	10.0	1.0	10.2	1.14	10.5	1.52	11.1
1	-	2.03	13.0	-	-	0.89	11.2	1.27	11.9	1.52	12.4	2.03	13.0
-	50	2.03	14.2	-	-	0.89	11.5	1.27	12.3	1.52	12.8	2.03	14.2
1/0	-	2.03	14.6	-	-	0.89	12.2	1.27	13.0	1.52	13.5	2.03	14.6
2/0	70	2.03	16.2	-	-	0.89	13.3	1.27	14.1	1.52	14.6	2.03	16.2
3/0	-	2.03	17.6	-	-	0.89	14.9	1.27	15.7	1.52	16.2	2.03	17.6
-	95	2.03	17.8	-	-	0.89	15.1	1.27	15.8	1.52	16.3	2.03	17.8
4/0	-	2.03	19.1	-	-	0.89	16.5	1.27	17.3	-	-	2.03	19.1
-	120	2.03	20.5	-	-	0.89	16.8	1.52	19.5	-	-	2.03	20.5
Conducting metal		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

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■: 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:

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

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PLASTHERM® Style 1015-HAR

UL, cUL and USE ◁HAR▷ approval

-30 °C to +105 °C

C UL US

◁HAR▷

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 ◁HAR▷ 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.

Characteristics

General

- Maximum continuous operating temperature as per USE ◁HAR▷ : +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 ◁HAR▷:
    - Type H05V2-K: 300/500 V.
    - Type H07V2-K: 450/750 V.
- Test voltage: 6000 V.

Standard products

- All colours including two-coloured.

Style 1015-HAR

Flexible core • class 5 as per IEC 60228			INSULATED 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)
Type H05V2-K					
0.5	16 x 0.20	39.0	0.76	2.45	9.9
0.75	24 x 0.20	26.0	0.76	2.65	12.6
1	32 x 0.20	19.5	0.76	2.8	15.1
Type 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

* Nominal cross-section only available in Style 10271 ◁HAR▷.

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

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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.

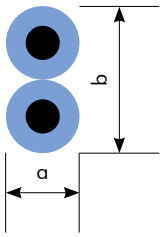
Style 20199

FLEXIBLE CORE

Nominal cross-section AWG	Nominal cross-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

INSULATED CABLE

Nominal outer dimensions (mm) a	b	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:

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

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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 core • class 5 as per IEC 60228			INSULATED CONDUCTORS		SHEATHED CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 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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Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

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Flexible core • class 5 as per IEC 60228			INSULATED CONDUCTORS		SHEATHED CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 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	16 x 0.20	40.1	0.4	1.8	6.6	68.0
19 x 0.5	16 x 0.20	40.1	0.4	1.8	11.0	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	19 x 0.20	33.7	0.6	2.2	6.5	57.8
5 x 0.6	19 x 0.20	33.7	0.6	2.2	7.5	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 x 0.20	26.7	0.6	2.3	6.2	53.4
4 x 0.75	24 x 0.20	26.7	0.6	2.3	6.7	65.0
5 x 0.75	24 x 0.20	26.7	0.6	2.3	7.8	84.2
7 x 0.75	24 x 0.20	26.7	0.6	2.3	8.5	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 0.25	21.6	0.6	2.4	8.8	124
19 x 0.93	19 x 0.25	21.6	0.6	2.4	14.2	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	32 x 0.20	20.0	0.6	2.5	9.1	132
19 x 1	32 x 0.20	20.0	0.6	2.5	14.7	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	8.9	122
7 x 1.34	19 x 0.30	15.0	0.6	2.7	9.7	161
2 x 1.5	30 x 0.25	13.7	0.6	2.8	6.8	66.0
3 x 1.5	30 x 0.25	13.7	0.6	2.8	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 x 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
5 x 2.5	50 x 0.25	8.21	0.7	3.4	11.2	204
7 x 2.5	50 x 0.25	8.21	0.7	3.4	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	56 x 0.30	5.09	0.8	4.2	12.1	253
5 x 4	56 x 0.30	5.09	0.8	4.2	13.5	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 x 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	84 x 0.30	3.39	0.8	4.8	17.2	588
2 x 10	77 x 0.40	1.95	1.0	6.4	15.0	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	119 x 0.40	1.24	1.2	7.8	21.4	840
5 x 16	119 x 0.40	1.24	1.2	7.8	23.7	1019
7 x 16	119 x 0.40	1.24	1.2	7.8	26.2	1382

PLASTHERM® 80 °C

PVC insulation
PVC sheathing
UL and cUL approval

C UL US

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

Characteristics

General

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

Electrical

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

Standard products

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

Approvals - standards

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

Applications

- External or internal cabling for electrical appliances.

Options

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

Style no.			2464-Y80		2570-Y80	
Approval			80 °C – 300 V AWM II A/B		80 °C – 600 or 1000 V AWM II A/B	
No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)
2	26	0.13	1.25	4.0	2.1	5.7
3	26	0.13	1.25	4.2	2.1	6.1
4	26	0.13	1.25	4.5	2.1	6.6
5	26	0.13	1.25	4.9	2.1	7.2
7	26	0.13	1.25	5.3	2.1	7.8
2	24	0.22	1.4	4.3	2.2	5.9
3	24	0.22	1.4	4.5	2.2	6.3
4	24	0.22	1.4	4.9	2.2	6.8
5	24	0.22	1.4	5.3	2.2	7.5
7	24	0.22	1.4	5.7	2.2	8.1
2	22	0.34	1.5	4.5	2.3	6.1
3	22	0.34	1.5	4.8	2.3	6.5
4	22	0.34	1.5	5.1	2.3	7.1
5	22	0.34	1.5	5.6	2.3	7.7
7	22	0.34	1.5	6.0	2.3	8.4
2	-	0.5	1.75	5.0	2.45	6.4
3	-	0.5	1.75	5.3	2.45	6.8
4	-	0.5	1.75	5.7	2.45	7.4
5	-	0.5	1.75	6.2	2.45	8.1
7	-	0.5	1.75	6.8	2.45	8.9
2	20	0.6	1.75	5.0	2.6	6.7
3	20	0.6	1.75	5.3	2.6	7.1
4	20	0.6	1.75	5.7	2.6	7.8
5	20	0.6	1.75	6.2	2.6	8.5
7	20	0.6	1.75	6.8	2.6	9.3
2	-	0.75	1.9	5.3	2.65	6.8
3	-	0.75	1.9	5.6	2.65	7.2
4	-	0.75	1.9	6.1	2.65	7.9
5	-	0.75	1.9	6.7	2.65	8.7
7	-	0.75	1.9	7.2	2.65	9.5
2	18	0.93	2.0	5.5	2.8	7.1
3	18	0.93	2.0	5.8	2.8	7.6
4	18	0.93	2.0	6.3	2.8	8.3
5	18	0.93	2.0	6.9	2.8	9.1
7	18	0.93	2.0	7.5	2.8	9.9
2	-	1	2.1	5.7	2.8	7.1
3	-	1	2.1	6.1	2.8	7.6
4	-	1	2.1	6.6	2.8	8.3
5	-	1	2.1	7.2	2.8	9.1
7	-	1	2.1	7.8	2.8	9.9
2	16	1.34	2.3	6.1	3.0	7.5
3	16	1.34	2.3	6.5	3.0	8.0
4	16	1.34	2.3	7.1	3.0	8.8
5	16	1.34	2.3	7.7	3.0	9.6
7	16	1.34	2.3	8.4	3.0	10.5
2	-	1.5	2.4	6.3	3.1	7.7
3	-	1.5	2.4	6.7	3.1	8.2
4	-	1.5	2.4	7.3	3.1	9.0
5	-	1.5	2.4	8.0	3.1	9.9
7	-	1.5	2.4	8.7	3.1	10.8
2	14	-	2.7	6.9	3.45	8.4
3	14	-	2.7	7.4	3.45	9.0
4	14	-	2.7	8.0	3.45	9.8
5	14	-	2.7	8.8	3.45	10.8
7	14	-	2.7	9.6	3.45	11.9
		Conducting metal	BCDEFG		BCDEFG	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

For this product, please contact:

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

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PLASTHERM® 90 °C

PVC insulation
PVC sheathing
UL and cUL approval

C US

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

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.

Style no.			2654-Y90		2587-Y90	
Approval			90 °C – 300 V AWM II A/B		90 °C – 600 V AWM II A/B	
No. of cond.	Nominal cross-section AWG	Nominal cross-section (mm²)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)
2	26	0.13	1.2	3.9	2.1	5.7
3	26	0.13	1.2	4.1	2.1	6.1
4	26	0.13	1.2	4.4	2.1	6.6
5	26	0.13	1.2	4.8	2.1	7.2
7	26	0.13	1.2	5.1	2.1	7.8
2	24	0.22	1.4	4.3	2.2	5.9
3	24	0.22	1.4	4.5	2.2	6.3
4	24	0.22	1.4	4.9	2.2	6.8
5	24	0.22	1.4	5.3	2.2	7.5
7	24	0.22	1.4	5.7	2.2	8.1
2	22	0.34	1.6	4.7	2.3	6.1
3	22	0.34	1.6	5.0	2.3	6.5
4	22	0.34	1.6	5.4	2.3	7.1
5	22	0.34	1.6	5.8	2.3	7.7
7	22	0.34	1.6	6.3	2.3	8.4
2	-	0.5	1.7	4.9	2.45	6.4
3	-	0.5	1.7	5.2	2.45	6.8
4	-	0.5	1.7	5.6	2.45	7.4
5	-	0.5	1.7	6.1	2.45	8.1
7	-	0.5	1.7	6.6	2.45	8.9
2	20	0.6	1.8	5.1	2.6	6.7
3	20	0.6	1.8	5.4	2.6	7.1
4	20	0.6	1.8	5.9	2.6	7.8
5	20	0.6	1.8	6.4	2.6	8.5
7	20	0.6	1.8	6.9	2.6	9.3
2	-	0.75	1.9	5.3	2.65	6.8
3	-	0.75	1.9	5.6	2.65	7.2
4	-	0.75	1.9	6.1	2.65	7.9
5	-	0.75	1.9	6.7	2.65	8.7
7	-	0.75	1.9	7.2	2.65	9.5
2	18	0.93	2.05	5.6	2.8	7.1
3	18	0.93	2.05	5.9	2.8	7.6
4	18	0.93	2.05	6.5	2.8	8.3
5	18	0.93	2.05	7.1	2.8	9.1
7	18	0.93	2.05	7.7	2.8	9.9
2	-	1	2.1	5.7	2.8	7.1
3	-	1	2.1	6.1	2.8	7.6
4	-	1	2.1	6.6	2.8	8.3
5	-	1	2.1	7.2	2.8	9.1
7	-	1	2.1	7.8	2.8	9.9
2	16	1.34	2.3	6.1	3.0	7.5
3	16	1.34	2.3	6.5	3.0	8.0
4	16	1.34	2.3	7.1	3.0	8.8
5	16	1.34	2.3	7.7	3.0	9.6
7	16	1.34	2.3	8.4	3.0	10.5
2	-	1.5	2.4	6.3	3.1	7.7
3	-	1.5	2.4	6.7	3.1	8.2
4	-	1.5	2.4	7.3	3.1	9.0
5	-	1.5	2.4	8.0	3.1	9.9
7	-	1.5	2.4	8.7	3.1	10.8
2	14	-	2.7	6.9	3.45	8.4
3	14	-	2.7	7.4	3.45	9.0
4	14	-	2.7	8.0	3.45	9.8
5	14	-	2.7	8.8	3.45	10.8
7	14	-	2.7	9.6	3.45	11.9
Conducting metal			BCDEFG		BCDEFG	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

For this product, please contact:

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

PLASTHERM® 105 °C

PVC insulation
PVC sheathing
UL and cUL approval

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

Characteristics

General

- Continuous operating temperatures: -30 °C to +105 °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 (≥ 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: contact 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.

Style no.			2517-Y105		2586-Y105		2586-Y105	
Approval			105 °C – 300 V AWM II A/B		105 °C – 600 V AWM II A/B		105 °C – 1000 V AWM II A/B	
No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)
2	26	0.13	1.2	3.9	2.1	5.7	2.1	5.7
3	26	0.13	1.2	4.1	2.1	6.1	2.1	6.1
4	26	0.13	1.2	4.4	2.1	6.6	2.1	6.6
5	26	0.13	1.2	4.8	2.1	7.2	2.1	7.2
7	26	0.13	1.2	5.1	2.1	7.8	2.1	7.8
2	24	0.22	1.4	4.3	2.2	5.9	2.2	5.9
3	24	0.22	1.4	4.5	2.2	6.3	2.2	6.3
4	24	0.22	1.4	4.9	2.2	6.8	2.2	6.8
5	24	0.22	1.4	5.3	2.2	7.5	2.2	7.5
7	24	0.22	1.4	5.7	2.2	8.1	2.2	8.1
2	22	0.34	1.6	4.7	2.3	6.1	2.3	6.1
3	22	0.34	1.6	5.0	2.3	6.5	2.3	6.5
4	22	0.34	1.6	5.4	2.3	7.1	2.3	7.1
5	22	0.34	1.6	5.8	2.3	7.7	2.3	7.7
7	22	0.34	1.6	6.3	2.3	8.4	2.3	8.4
2	-	0.5	1.7	4.9	2.45	6.4	2.45	6.4
3	-	0.5	1.7	5.2	2.45	6.8	2.45	6.8
4	-	0.5	1.7	5.6	2.45	7.4	2.45	7.4
5	-	0.5	1.7	6.1	2.45	8.1	2.45	8.1
7	-	0.5	1.7	6.6	2.45	8.9	2.45	8.9
2	20	0.6	1.8	5.1	2.6	6.7	2.6	6.7
3	20	0.6	1.8	5.4	2.6	7.1	2.6	7.1
4	20	0.6	1.8	5.9	2.6	7.8	2.6	7.8
5	20	0.6	1.8	6.4	2.6	8.5	2.6	8.5
7	20	0.6	1.8	6.9	2.6	9.3	2.6	9.3
2	-	0.75	1.9	5.3	2.65	6.8	2.65	6.8
3	-	0.75	1.9	5.6	2.65	7.2	2.65	7.2
4	-	0.75	1.9	6.1	2.65	7.9	2.65	7.9
5	-	0.75	1.9	6.7	2.65	8.7	2.65	8.7
7	-	0.75	1.9	7.2	2.65	9.5	2.65	9.5
2	18	0.93	2.05	5.6	2.8	7.1	2.8	7.1
3	18	0.93	2.05	5.9	2.8	7.6	2.8	7.6
4	18	0.93	2.05	6.5	2.8	8.3	2.8	8.3
5	18	0.93	2.05	7.1	2.8	9.1	2.8	9.1
7	18	0.93	2.05	7.7	2.8	9.9	2.8	9.9
2	-	1	2.1	5.7	2.8	7.1	2.8	7.1
3	-	1	2.1	6.1	2.8	7.6	2.8	7.6
4	-	1	2.1	6.6	2.8	8.3	2.8	8.3
5	-	1	2.1	7.2	2.8	9.1	2.8	9.1
7	-	1	2.1	7.8	2.8	9.9	2.8	9.9
2	16	1.34	2.3	6.1	3.0	7.5	3.1	7.7
3	16	1.34	2.3	6.5	3.0	8.0	3.1	8.2
4	16	1.34	2.3	7.1	3.0	8.8	3.1	9.0
5	16	1.34	2.3	7.7	3.0	9.6	3.1	9.9
7	16	1.34	2.3	8.4	3.0	10.5	3.1	10.8
2	-	1.5	2.4	6.3	3.1	7.7	3.1	7.7
3	-	1.5	2.4	6.7	3.1	8.2	3.1	8.2
4	-	1.5	2.4	7.3	3.1	9.0	3.1	9.0
5	-	1.5	2.4	8.0	3.1	9.9	3.1	9.9
7	-	1.5	2.4	8.7	3.1	10.8	3.1	10.8
2	14	-	2.7	6.9	3.45	8.4	3.5	8.5
3	14	-	2.7	7.4	3.45	9.0	3.5	9.1
4	14	-	2.7	8.0	3.45	9.8	3.5	10.0
5	14	-	2.7	8.8	3.45	10.8	3.5	11.0
7	14	-	2.7	9.6	3.45	11.9	3.5	12.0
		Conducting metal	BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

For this product, please contact:

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

PLASTHERM® 90 °C

Polyolefin insulation
UL and cUL approval

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

Characteristics
General

- 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.

Style no.	10900	
Approval	90 °C – 600 V AWM I A/B	
Nominal cross-section AWG	Nominal cross-section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)
30	0.05	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
-	16	0.76	7.2
4	-	0.76	8.1
-	25	0.76	8.6
2	35	0.76	9.7
1	-	1.52	12.4
-	50	1.52	12.8
1/0	-	1.52	13.5
2/0	70	1.52	14.6
3/0	-	1.52	16.2
-	95	1.52	16.3
4/0	-	1.52	18.1
Conducting metal		BF	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■ : UL approved nominal cross-sections only.

* 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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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

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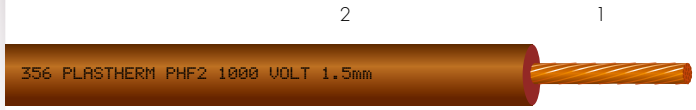
PLASTHERM® PHF2

Halogen-free insulation flame retardant

-40 °C to +105 °C



1 • Flexible bare copper (PHF2) or tin-plated (PHF2E) core – Class 5 as per IEC 60228.
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)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)		INSULATED WIRE OR CABLE		
		PHF2	PHF2E	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	39.0	40.1	0.6	2.20	9.1
0.75	24 x 0.20	26.0	26.7	0.6	2.40	11.9
1	32 x 0.20	19.5	20.0	0.7	2.70	15.2
1.5	30 x 0.25	13.3	13.7	0.8	3.10	22.3
2.5	50 x 0.25	7.98	8.21	0.8	3.60	33.4
4	56 x 0.30	4.95	5.09	0.9	4.30	50.1
6	84 x 0.30	3.30	3.39	0.9	5.00	72.5
10	80 x 0.40	1.91	1.95	0.9	6.10	113
16	126 x 0.40	1.21	1.24	1.0	7.10	170
25	196 x 0.40	0.78	0.795	1.0	8.70	256
35	276 x 0.40	0.554	0.565	1.1	10.3	364
50	396 x 0.40	0.386	0.393	1.1	12.1	510
70	360 x 0.50	0.272	0.277	1.1	13.9	692
95	485 x 0.50	0.206	0.210	1.4	16.6	972
120	608 x 0.50	0.161	0.164	1.4	18.2	1202
150	756 x 0.50	0.129	0.132	1.6	20.2	1503
185	944 x 0.50	0.106	0.108	1.6	22.4	1849
240	1221 x 0.50	0.0801	0.0817	1.8	25.4	2376
300	1525 x 0.50	0.0641	0.0654	1.8	27.6	2909

Option: PLASTHERM PHF2R

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	INSULATED WIRE OR CABLE		
			Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	1 x 0.80	36.0	0.6	2.00	9.35
0.75	1 x 0.98	24.5	0.6	2.20	12.2
1	1 x 1.13	18.1	0.7	2.60	15.1
1.5	1 x 1.38	12.1	0.7	2.80	21.6
2.5	1 x 1.77	7.41	0.8	3.40	32.1
4	1 x 2.24	4.61	0.8	4.00	48.7

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

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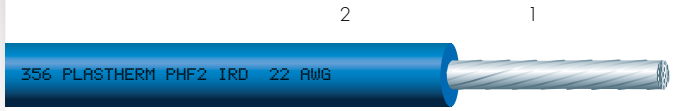
PLASTHERM®
PHF2E IRD

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.

Electrical

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

Standard products

- All solid colours
- Surface marking (except AWG24)

PLASTHERM PHF2E IRD

Concentric tin-plated copper core				INSULATED WIRE OR CABLE		
Nominal cross-section (mm^2)	Equivalent cross-section AWG	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.22	24	7 x 0.20	92.5	0.25	1.10	2.9
0.34	22	7 x 0.25	59.2	0.25	1.30	4.4
0.6	20	19 x 0.20	33.7	0.40	1.75	7.6
0.93	18	19 x 0.25	21.6	0.40	2.00	11.1
1.34	16	19 x 0.30	15.0	0.45	2.35	15.9

For this product, please contact:

OMERIN division principale ☑
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Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

omerin
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PLASTHERM® PHFLEX

Cable resistant to alternate bending, halogen-free insulation

-35 °C to +90 °C

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° 1477.0CI0010/21.
- 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.

Electrical

- 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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm^2)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Minimum bending radius (mm)
0.5	105 x 0.08	40.1	0.6	2.20	10
0.75	152 x 0.08	26.7	0.6	2.50	20
1	210 x 0.08	20.0	0.7	2.70	40
1.5	192 x 0.10	13.7	0.8	3.30	50

For this product, please contact:

OMERIN division principale ☑
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omerin@omerin.com

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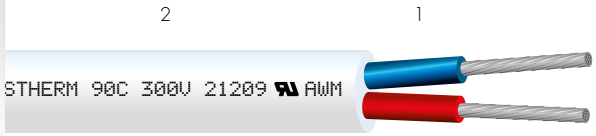
PLASTHERM®
Style 21209
Polyurethane sheathing
UL and cUL approval

C US



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

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

Electrical
- 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.
- Other nominal cross-sections: contact us.

Style no.			21209-E90		21209-W12		21209-F90	
Approval Single conductor style no.			90 °C – 300 V Style 10125 AWM I/II A/B		90 °C – 600 V Style 10900 AWM I/II A/B		90 °C – 1,000 V Style 10203 AWM I/II A/B	
Nominal cross-section			Nominal diameter* of the cond.	Nominal diameter* of the cable	Nominal diameter* of the cond.	Nominal diameter* of the cable	Nominal diameter* of the cond.	Nominal diameter* of the cable
No. of cond.	AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
2	26	0.13	0.75	3.1	1.2	4.0	1.5	4.6
3	26	0.13	0.75	3.2	1.2	4.1	1.5	4.8
4	26	0.13	0.75	3.4	1.2	4.5	1.5	5.2
5	26	0.13	0.75	3.6	1.2	4.8	1.5	5.6
7	26	0.13	0.75	3.8	1.2	5.2	1.5	6.1
2	24	0.22	0.9	3.4	1.4	4.4	1.65	4.9
3	24	0.22	0.9	3.5	1.4	4.6	1.65	5.1
4	24	0.22	0.9	3.7	1.4	4.9	1.65	5.5
5	24	0.22	0.9	4.0	1.4	5.4	1.65	6.0
7	24	0.22	0.9	4.3	1.4	5.8	1.65	6.5
2	22	0.34	1.05	3.7	1.5	4.6	1.8	5.2
3	22	0.34	1.05	3.8	1.5	4.8	1.8	5.4
4	22	0.34	1.05	4.1	1.5	5.2	1.8	5.9
5	22	0.34	1.05	4.4	1.5	5.6	1.8	6.4
7	22	0.34	1.05	4.7	1.5	6.1	1.8	7.0
2	-	0.5	1.25	4.1	1.7	5.0	1.95	5.5
3	-	0.5	1.25	4.2	1.7	5.2	1.95	5.8
4	-	0.5	1.25	4.6	1.7	5.7	1.95	6.3
5	-	0.5	1.25	4.9	1.7	6.2	1.95	6.8
7	-	0.5	1.25	5.3	1.7	6.7	1.95	7.4
2	20	0.6	1.3	4.2	1.75	5.1	2	5.6
3	20	0.6	1.3	4.4	1.75	5.3	2	5.9
4	20	0.6	1.3	4.7	1.75	5.8	2	6.4
5	20	0.6	1.3	5.1	1.75	6.3	2	7.0
7	20	0.6	1.3	5.5	1.75	6.8	2	7.6
2	-	0.75	1.4	4.4	2.0	5.6	2.1	5.8
3	-	0.75	1.4	4.6	2.0	5.9	2.1	6.1
4	-	0.75	1.4	4.9	2.0	6.4	2.1	6.6
5	-	0.75	1.4	5.4	2.0	7.0	2.1	7.3
7	-	0.75	1.4	5.8	2.0	7.6	2.1	7.9
2	18	0.93	1.55	4.7	2.1	5.8	2.25	6.1
3	18	0.93	1.55	4.9	2.1	6.1	2.25	6.4
4	18	0.93	1.55	5.3	2.1	6.6	2.25	7.0
5	18	0.93	1.55	5.8	2.1	7.3	2.25	7.7
7	18	0.93	1.55	6.2	2.1	7.9	2.25	8.3
2	-	1	1.65	4.9	2.9	7.4	2.3	6.2
3	-	1	1.65	5.1	2.9	7.8	2.3	6.5
4	-	1	1.65	5.5	2.9	8.6	2.3	7.1
5	-	1	1.65	6.0	2.9	9.4	2.3	7.8
7	-	1	1.65	6.5	2.9	10.3	2.3	8.5
2	16	1.34	1.9	5.4	3.0	7.6	2.5	6.6
3	16	1.34	1.9	5.6	3.0	8.0	2.5	6.9
4	16	1.34	1.9	6.1	3.0	8.8	2.5	7.6
5	16	1.34	1.9	6.7	3.0	9.7	2.5	8.3
7	16	1.34	1.9	7.3	3.0	10.6	2.5	9.1
2	-	1.5	2	5.6	3.1	7.8	2.55	6.7
3	-	1.5	2	5.9	3.1	8.2	2.55	7.0
4	-	1.5	2	6.4	3.1	9.0	2.55	7.7
5	-	1.5	2	7.0	3.1	10.0	2.55	8.5
7	-	1.5	2	7.6	3.1	10.9	2.55	9.2
2	14	-	2.25	6.1	3.4	8.4	2.9	7.4
3	14	-	2.25	6.4	3.4	8.9	2.9	7.8
4	14	-	2.25	7.0	3.4	9.8	2.9	8.6
5	14	-	2.25	7.7	3.4	10.8	2.9	9.4
7	14	-	2.25	8.3	3.4	11.8	2.9	10.3
Conducting metal			BCDF		BCDF		BCDF	

KEY

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

- AWM I A Internal wiring. not subject to mechanical abuse
- AWM I A/B Internal wiring
- AWM II A/B External or Internal wiring
- NS Not Specified
- VNS Voltage Not Specified

■ : UL approved nominal cross-sections only.

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

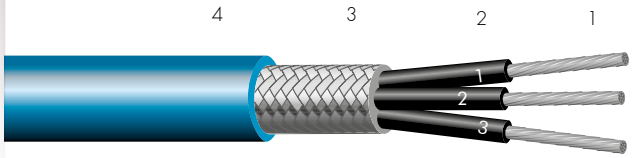
For this product, please contact:

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

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 (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
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 x 0.75	24 x 0.20	26.7	0.6	2.35	9.6	160
12 x 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:

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

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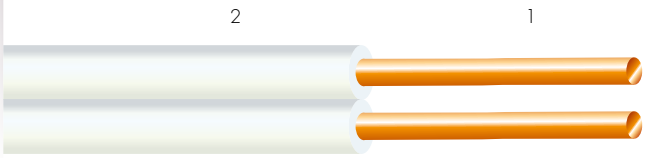
www.omerin.com

PLASTHERM® HP-U

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



1 • 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.

Electrical

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

Standard products

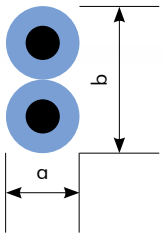
• All colours including two-coloured.

SOLID CORE

Nominal cross-section (mm^2)	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

Nominal outer Dimensions (mm) a	b	Approximate linear weight (kg/km)
1.2	2.7	0.6
1.4	3.0	0.85
1.75	4.0	1.2
2.4	5.1	2.8



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

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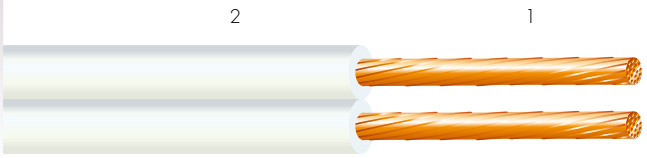
PLASTHERM® HP-M

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.

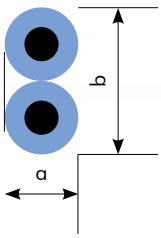
Electrical

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

Standard products

• All colours including two-coloured.

FLEXIBLE CORE			INSULATED CABLE		
Nominal cross-section (mm^2)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Nominal outer Dimensions (mm) a	b	Approximate linear weight (kg/km)
2 x 0.38	12 x 0.20	52.0	1.3	3.0	0.95
2 x 0.50	16 x 0.20	39.0	1.6	3.6	1.3
2 x 0.75	24 x 0.20	26.0	2.2	4.5	2.0
2 x 1	32 x 0.20	19.5	2.5	5.2	2.8
2 x 1.5	30 x 0.20	13.3	3.0	6.2	4.0
2 x 2.5	49 x 0.20	7.98	3.7	7.8	6.3



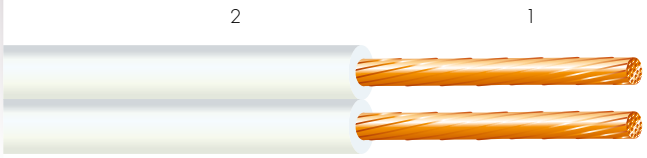
For this product, please contact:

OMERIN division Berne
La Forie - F 63600 Ambert
Tel. +33 (0)4 73 82 03 81 - Fax +33 (0)4 73 82 18 69
berne@omerin.com

www.omerin.com

PLASTHERM® HP-M-HT

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



1 • Flexible bare copper core.
2 • 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.

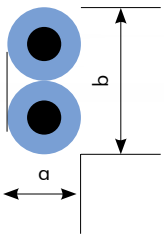
Electrical

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

Standard products

• All colours including two-coloured.

FLEXIBLE CORE			INSULATED CABLE		
Nominal cross-section (mm^2)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Nominal outer Dimensions (mm) a	b	Approximate linear weight (kg/km)
2 x 0.38	12 x 0.20	52.0	1.3	3.0	0.95
2 x 0.50	16 x 0.20	39.0	1.6	3.6	1.3
2 x 0.75	24 x 0.20	26.0	2.2	4.5	2.0
2 x 1	32 x 0.20	19.5	2.5	5.2	2.8
2 x 1.5	30 x 0.20	13.3	3.0	6.2	4.0
2 x 2.5	49 x 0.20	7.98	3.7	7.8	6.3



For this product, please contact:

OMERIN division Berne
La Forie - F 63600 Ambert
Tel. +33 (0)4 73 82 03 81 - Fax +33 (0)4 73 82 18 69
berne@omerin.com

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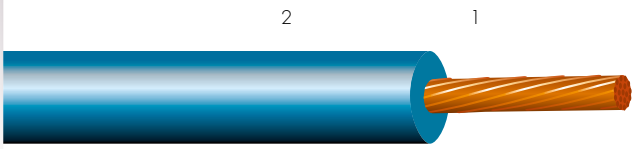
PLASTHERM® 41

-40°C to +125°C



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

Approvals - standards

• Flame resistance: meets UL758 VW-1 test.

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 (mm²)	Nominal stranding	Nominal wall thickness of insulation (mm)	Nominal external diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)
0.22	7x0.20	0.25	1.15	89.9
0.34	7x0.25	0.25	1.30	57.5
0.5	16x0.20	0.30	1.50	39.0
0.75	24x0.20	0.30	1.80	26.0
1	32x0.20	0.35	2.00	19.5
1.5	30x0.25	0.40	2.40	13.3
2.5	50x0.25	0.40	2.90	7.98

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
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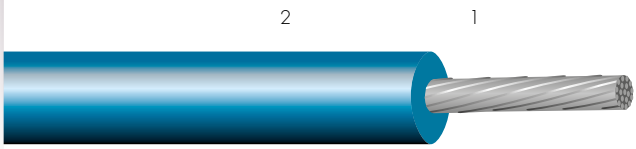
PLASTHERM® E43

-40°C to +150°C



1 • Flexible tin-plated 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 +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 (mm²)	Nominal stranding	Nominal wall thickness of insulation (mm)	Nominal external diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)
0.22	7x0.20	0.15	0.95	92.5
0.34	7x0.25	0.15	1.10	59.2
0.5	16x0.20	0.20	1.35	40.1
0.75	24x0.20	0.20	1.60	26.7
1	32x0.20	0.25	1.90	20.0
1.5	30x0.25	0.30	2.20	13.7
2.5	50x0.25	0.30	2.70	8.21

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

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Notes

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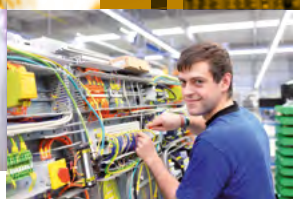


omerin
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division silisol

Headquarters and division principale
Zone industrielle - 63600 Ambert - France
Tel. +33 **(0)4 73 82 50 00**
Fax +33 (0)4 73 82 50 10
e-mail: omerin@omerin.com

division silisol
B.P. 87 - 11, allée du Couchant Z.I. du Devey
42010 Saint-Etienne Cedex 2 - France
Tel. +33 **(0)4 77 81 36 00**
Fax +33 (0)4 77 81 37 00
e-mail: silisol@omerin.com

www.omerin.com