

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





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

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



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

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

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CABLE SOLUTIONS D

PACKAGING AND TECHNICAL DATA

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

Our expertise is recognized in over 120 countries.





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.

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

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

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

www.omerin.com

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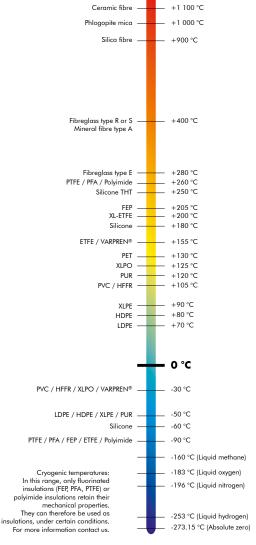




Thermal classification of insulations

Borosilicoaluminate fibre _

+1 200 °C





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FLUOROPOLYMER INSULATED WIRES AND CABLES

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FLUOROPOLYMER INSULATED WIRES AND CABLES

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

SILIFLON® ETFE and EETFE -90 °C to +155 °C

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.

FLUOROPOLYMER INSULATED WIRES AND CABLES



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

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 Maximum linear Nominal Nominal Nominal Nominal Approximate resistance at 20 °C cross-section strandina thickness diameter linear weight of insulation (Ω/km) (mm²) (mm) (mm) (kg/km) (bare copper core) 0.9 0.0.5 7 x 0.10 373 0.17 0.65 7 x 0.13 0.09 214 0.17 0.7 1.3 0.12* 7 x 0.15 161 0.17 0.8 17 0.14** 7 x 0.16 141 0.17 0.8 1.8 0.15 19 x 0.10 136 0.20 09 2.1 0.22 7 x 0.20 89.9 0.20 1.0 2.7 19×0.13 80.0 0.20 0.25 1 0.5 32 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 44 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 4.5 8.5 7 x 0.40 9.0 0.88 22.2 0.20 1.5 0.93 19 x 0.25 21.0 0.20 1.7 1.7 32 x 0.20 19.5 0.20 11.4 1 1.9 1.34 19 x 0.30 14.6 0.20 13.9 1.5 30 x 0.25 13.3 0.20 1.95 15.6 7.98 2.5 50 x 0.25 0.20 2.5 25.6 4 56 x 0.30 4.95 0.25 3.1 38.9 84 x 0.30 3.30 0.35 3.9 55.6 6 10 80 x 0.40 1.91 0.40 5.2 101 1.21 147 16 126 x 0.40 0.40 65 196 x 0.40 0.780 8.2 242 25 0.60 35 276 x 0.40 0.554 0.60 9.2 320 50 396 x 0.40 0.386 0.70 11.2 465

For this product, please contact: ** Nominal cross-section not available with the ref. EETFE ** Nominal cross-sections not available with the ref. ETFE.

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FT 2102b

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

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



FLUOROPOLYMER INSULATED WIRES AND CABLES

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.

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

Characteristics

- 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.

	cc	DNCENTRIC CO	RE	INSULATED WIRE					
				K	10 L	KL	J 02		
Non cross-: AWG	ninal section (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:

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KU 01 and KU 02

General

FT 2103c

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

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



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.

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

2 • Insulation: Fluorinated polymer ETFE.

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.

7YA

2500 V

Excellent mechanical strength.

Electrical

- Rated voltage: 450/750 V
- Test voltage:

Standard products

All colours including translucent.

Options

- Flexible tin-plated copper core ref. E7YA and E7YS: contact us.
- Flexible nickel-plated copper core ref. CNZYA and CNZYS: contact us.
- Flexible silver-plated copper core ref. AZYA and AZYS: contact us.
 Solid bare copper core ref. RZYA and RZYS: see details of the option below.
- Solid tin-plated copper core ref. RE7YA and RE7YS: contact us.

7 Y A

Flexible core • class 5 as per IEC 60228			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)	
0.25*	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
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.36	12.1
2.5	1 x 1.77	7.41
4	1 x 2.24	4.61
6	1 x 2.74	3.08

For this product, please contact:

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

(2) Standardised name: NZYA VDF.

0.40

0.40

0.40

0.40 0.50

0.60 0.60

0.60

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1.35

1.6

1.8 1.95

2.4

3.0

3.45

3 95

42

7.1

9.8

12.4

18.3 30.0

44.7 63.9

FLUOROPOLYMER INSULATED WIRES AND CABLES

2 1

Characteristics

FT 2104a

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

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



FLUOROPOLYMER INSULATED WIRES AND CABLES



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

7Y

 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.

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

- 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:
- Test volidge.
 N Lessia el 46:
 - Nominal thickness of insulation (0.15 mm): 1500 V.
 Nominal thickness of insulation (0.25 mm): 2500 V.

Standard products

• All colours including translucent.

	SOLID	INS	WIRE			
Standardised reference	Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
	(mm²)		(Ω/km) (bare copper core)	(mm)	(mm)	(kg/km)
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
7Y1x0.4 /0.7	0.125	1 x 0.40	146	0.15	0.7	1.6
7Y1x0.5 /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
7Ylx0.8/1.1	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
7Y1x0.4 /0.9	0.125	1 x 0.40	146	0.25	0.9	2.0
7Y1x0.5 /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
7Y1x0.8/1.3	0.50	1 x 0.80	36.0	0.25	1.3	5.9
7Ylxl.0/1.5*	0.785	1 x 1.00	23.1	0.25	1.5	8.7
7Ylxl.3 /l.8*	1.33	1 x 1.30	13.6	0.25	1.8	14.0
7Ylxl.6 /2.1*	2.01	1 x 1.60	9.01	0.25	2.1	20.6
7Ylx2.1 /2.6*	3.46	1 x 2.10	5.23	0.25	2.6	34.3

* Contact us.

For this product, please contact:

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FT 2105b

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

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





FLUOROPOLYMER INSULATED WIRES AND CABLES

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: LiZY n x Cross-section/Østranding (n being the number of twisted conductors).

Characteristics General

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

Electrical

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

Standard products

All colours including translucent.

For this product, please contact:

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	CONCENT	RIC CORE		INSULATE	DWIRE	OR CABLE
Standardised reference	Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness	Nominal diameter	Approximate linear weight
Standardised series	(mm²)		(Ω/km) (bare copper core)	of insulation (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
$Li7Y 1 \times 4.6 / 3.4$	4.6	37 x 0.40	4.13	0.32	3.4	46.8
					2	

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

For this product, please contact:

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FT 2106a

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

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

Approvals - standards

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

Applications

• Cabling for rotating machines. Cabling in household electrical appliances, electronics.
 Cabling in hot or cold environments (cryogenics). Cabling in aggressive environments (humidity, chemicals, etc.).

- Cabling requiring compact size
- and excellent mechanical strength.

Options

- Nickel-plated copper core: ref. CNFEP.
 Silver-plated copper core: ref. AFEP.
 Pure nickel core: ref. NFEP.
- - Outer electrical shielding:

> Tin-plated copper braid: ref. FEPBE or EFEPBĔ

 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

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

For this product, please contact:

OMERIN division principale 🗹

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

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FLUOROPOLYMER INSULATED WIRES AND CABLES



1 • Bare (ref. FEP) or tin-plated (ref. EFEP) copper core.

2 • Insulation: Fluorinated polymer FEP.



FT 2107b

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

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



Approvals - standards

 Cabling in aggressive environments (humidity, chemicals, etc.).

Cabling requiring compact size and excellent mechanical strength.

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

Cabling in household electrical appliances, electronics.

Čabling in hot or cold environments (cryogenics).

Applications

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 inckel-plated copper core ref. CN6YA and CN6YS: contact us.
 Flexible silverplated 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

Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximat linear weigh
(mm²)		(Ω/km)	(mm)	(mm)	(kg/km)
0.25*	19 x 0.13 or 7 x 0.22	80.7	0.30	1.25	4.2
0.5	16 x 0.20	39.0	0.30	1.5	6.5
0.6*	19 x 0.20	32.8	0.30	1.5	7.4
0.75	24 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

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:

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FLUOROPOLYMER INSULATED WIRES AND CABLES



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

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FT 2108a

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

SILIFLON® 6Y6YS and E6Y6YS Double insulating layer VDE approval

-90 °C to +180 °C

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.
 - 6Y6YS and E6Y6YS

Chara	cterisi	ICS
	_	

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.

	M	ULTISTRAND CO	INSULATED WIRE				
	ninal 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:

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FLUOROPOLYMER INSULATED WIRES AND CABLES



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

FT 2109a

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

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.

FLUOROPOLYMER INSULATED WIRES AND CABLES

Approvals - standards

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

Cabling in household electrical appliances, electronics.
 Cabling in hot or cold environments (cryogenics).
 Cabling in aggressive environments
 (humidity, chemicals, etc.).

Applications

Cabling for rotating machines.

Cabling requiring compact size and

Nickel-plated copper core: ref. CNPFA.
 Silver-plated copper core: ref. APFA.

> Tin-plated copper braid: ref. PFABE or EPFABE. • Other nominal metric or American cross-sections:

Other nominal stranding: contact us.
Other options and/or combinations of the options

excellent mechanical strength.

 Pure nickel core: ref. NPFA. Outer electrical shielding:

outlined above: contact us.

Options

contact us.

Characteristics General

- Continuous operating temperatures: -90 °C to +260 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

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

Standard products

• All colours including translucent.

PFA and **FPFA**

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

For this product, please contact:

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

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

FT 2110b

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

SILIFLON® 51YS

VDE approval -90 °C to +250 °C



Approvals - standards

and excellent mechanical strength.

Solid bare copper core – ref. R51YS:

see details of the option below.

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

Cabling in household electrical appliances, electronics.
 Cabling in hot or cold environments (cryogenics).

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

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 tin-plated copper core - ref. RE51YS: contact us.

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

Applications

Options

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

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

Standard products

All colours including translucent.

51**YS**

Flexible	core • class 5 as per IEC	60228	INSU	LATED W	IRES
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(kg/km)
0.25*	19 x 0.13 or 7 x 0.22	79.9	0.30	1.25	4.2
0.5	16 x 0.20	39.0	0.30	1.5	6.5
0.75	24 x 0.20	26.0	0.30	1.65	8.7
1	32 x 0.20	19.5	0.30	1.8	10.9
1.5	30 x 0.25	13.3	0.30	2.0	14.9
2.5	50 x 0.25	7.98	0.35	2.6	25.0
4	56 x 0.30	4.95	0.40	3.4	41.9
6	84 x 0.30	3.30	0.40	3.9	60.1

Option • R51YS

Solid 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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FLUOROPOLYMER INSULATED WIRES AND CABLES

2 5IYA 1,50mm²- VDE-Reg-Nr : 9840

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

16

FT 2111a

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

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



FLUOROPOLYMER INSULATED WIRES AND CABLES

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.

RETFE, RFEP and RPFA

Options

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

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

- **Characteristics** General
 - Continuous operating temperatures: RETFE: -90 °C to +155 °C.

 - RFEP: -90 °C to +205 °C.
 - RPFA: -90 °C to +260 °C.
 - Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.
 - Excellent mechanical strength.

Electrical

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

Standard products

• All colours including translucent.

	SOLID CORE		INS	ULATED WI	RE
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

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

FT 2112b

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

SILIFLON® 105 °C Fluoropolymer insulation UL and cUL approval



FLUOROPOLYMER INSULATED WIRES AND CABLES



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

Approvals - standards

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

Applications

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

Options

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

Characteristics General

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

Electrical

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

Standard products

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

	tyle no. nsulation		5 1 3 Thin-wall"			2 27		08 in-wall"	10 ET	101 FE
Α	pproval	105 °	C – VNS		105 °C	: – VNS	105 °C	- 30 V	105 °C	- 250 V
	ninal section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	1		Nominal diameter* (mm)	thickness of insula- tion	Nominal diameter* (mm)		Nominal diameter* (mm)
30	0.05	0.13	0.55		(mm) 0.20	0.7	(mm) 0.14	0.6	(mm) 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		· ·	-	
Conduct	ing metal	В	CD		BCI	DEFG	ВС	D	ВС	D

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



KEY

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

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

- AWM II A/BExternal or Internal wiring
- NS Not Specified
- VNS Voltage Not Specified

E: 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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FT 2113d

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

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

Approvals - standards

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

- cUL approval as per standard C22.2 No. 210 (AVVM | 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.

3	2	1
	SILIFLON 158C 18935 94 AWM	

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

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.

Nom cross-s AWG 24 22		Average thickness of insulation (mm)	Nominal d Multistrand core	A/B	Approximate linear weight	
cross-s AWG 24	ection (mm²) 0.22	of insulation (mm)	Multistrand core			
24	0.22	. ,		Solid core		
		0.15			(kg/km)	
22	0.34	0.15	1.2	1.15	3.2	
		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	
Conductir	na metal		BF			

KEY

- Conducting metals
- В Tin-plated copper R*
- Tin-plated copper (Ø > 0.38 mm) AWM I A/B Internal wiring AWM II A/BExternal or Internal wiring С
- D Silver-plated copper
- E Nickel
- F Bare copper
- F* Bare copper (ø > 0.38 mm) G Nickel-plated copper 27 %
- Not Specified NS VNS Voltage Not Specified

AWM I A Internal wiring, not subject to mechanical abuse

: UL approved nominal crosssections only.

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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of insulation should be taken into account

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

FT 2132b

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

SILIFLON® Style 11881 FEP insulation + reinforcing braid **UL and cUL approval** -60 °C to +200 °C



Approvals - standards

• UL approval as per standard UL 758 -File no.: E101965. • cUL approval as per standard C22.2 No. 210 (AVVM | 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.

- 3 2 1 SILIFLON 200C 11881 🔊 AWM
 - 1 Bare, tin-plated, nickel-plated or silver-plated copper core.
 - 2 Insulation: Fluorinated polymer FEP.
 - 3 Reinforcement: Varnished fiberglass braid.

Characteristics

General

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

Electrical

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

Standard products

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



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	Style no.		81			
	Approval		200°C - 600 V AWMIA/B			
Nominal cross-section		Nominal Average thickness of insulation		Nominal diameter*		
AWG (mm²)		(mm)	Multistrand core (mr	Solid core n)	linear weight (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	
Conducti	ng metal		B*CDI	F*G		

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

KEY

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

 $\mbox{AWM I A}$ $\mbox{Internal wiring, not subject to mechanical abuse}$ $\mbox{AWM I A/B}$ $\mbox{Internal wiring}$

- AWM II A/BExternal or Internal wiring
- NS Not Specified VNS Voltage Not Specified
- : UL approved nominal cross-sections only.



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FT 2114g

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

SILIFLON® 150 °C Fluoropolymer insulation UL and cUL approval



FLUOROPOLYMER INSULATED WIRES AND CABLES

2 1 300V FT1 SILIFLON 150C

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 (AVVG 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.

	Insulation	ETFE "T	hin-wall"
	Approval	150 °C	- 125 V
	Nominal ss-section	Average thickness of insulation	Nominal diameter*
AWG	(mm²)	(mm)	(mm)
30	0.05	0.14	0.6
28	0.09	0.14	0.7
26	0.13	0.14	0.75
24	0.22	0.14	0.9
22	0.34	0.14	1.05
-	0.5	0.14	1.2
20	0.6	0.14	1.3
-	0.75	0.20	1.5
18	0.93	0.20	1.65
-	1	0.20	1.7
16	1.34	0.20	1.9
-	1.5	0.20	1.9
14	-	0.33	2.55
-	2.5	0.33	2.7
12	-	0.33	3.1
-	4	0.33	3.25
10	-	0.33	3.7
-	6	0.33	3.9
8	-		
-	10	-	-
6	-	•	-
4	16	-	-
-	25	-	-
2	35		-
1	33		-
-	50		
1/0			
2/0	70		
3/0			
	95		
4/0	-		-
., 0	120	-	-
		-	
Cond	ucting metal	BCL	DEFG

Style no.

1827

"		125 'hin-wall"		328 TFE		43 TFE
5 V	150 °C	- 300 V	150 °C	- 300 V	150 °C	- 300 V
inal eter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*
n)	tion (mm)	(mm)	tion (mm)	(mm)	tion (mm)	(mm)
	0.15	0.6	Ò.33	0.95	0.33	0.95
	0.15	0.7	0.33	1.05	0.33	1.05
	0.15	0.9	0.33	1.3	0.33	1.3
	0.15	1.05	0.33	1.4	0.33	1.4
	0.15	1.25	0.33	1.65	0.33	1.65
	0.15	1.3	0.33	1.05	0.33	1.05
	0.15	1.4	0.33	1.75	0.33	1.75
	0.15	1.65	0.33	1.95	0.33	1.9
	0.10	1.9	0.33	2.2	0.33	2.2
	0.20	1.9	0.33	2.2	0.33	2.2
	0.20	2.5	0.33	2.55	0.33	2.55
	0.20	2.45	0.33	2.7	0.33	2.7
	0.25	2.45	0.33	3.1	0.33	3.0
	0.25	3.1	0.33	3.25	0.33	3.25
	0.25	3.6	0.33	3.7	0.33	3.9
	0.25	37	0.33	3.9	0.33	3.9
	0.64	5.4	-	-	0.51	5.3
	0.64	5.7	-	-	0.51	5.4
	0.64	6.6		-	0.51	6.3
	0.64	6.7		-	0.51	6.6
	0.64	7.8		-	0.51	7.4
	0.64	8.3		-	0.51	8.0
	0.89	10.0		-	0.51	9.3
	0.89	11.0	-	-	0.76	10.7
	0.89	11.4		-	0.76	11.1
	1.14	12.5		-	0.76	11.7
	1.14	14.0			0.76	12.8
	1.14	15.2		-	0.76	14.4
	1.14	15.4		-	0.76	14.6
	1.14	16.8		-	0.76	16.0
	1.14	17.1	-	-	0.76	16.3
	BCI	DEFG	E	3F	BCE	DEFG

KEY

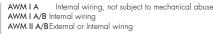
Conducting metals

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

* 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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NS Not Specified VNS Voltage Not Specified

: UL approved nominal cross-sections only

For this product, please contact: OMERIN division principale 🗹

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	Style no. Insulation		-VW-1		210 hin-wall"		6-VW-1 Thin-wall"		544 TFE		831 EP		945 hin-wall"		358 ETFE
A	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		- 1000 \ 600 V)
cross-	ninal section	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter										
AWG 30	(mm²) 0.05	tion (mm) 0.33	(mm) 0.95	tion (mm)	(mm)	tion (mm) 0.25	(mm) 0.8	tion (mm) 0.51	(mm) 1.3	tion (mm) 0.51	(mm) 1.3	tion (mm)	(mm)	tion (mm) 0.51	(mm) 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	1.4	0.51	1.4			0.51	1.4
24	0.22	0.33	1.13	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	1.13	0.51	1.8	0.51	1.8	0.15	1.0.5	0.51	1.8
22	0.5	0.33	1.4	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	1.35	0.25	1.55	0.51	2.1	0.51	2.0	0.15	1.35	0.51	2.0
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
Conduc	ting metal	BCE	DEFG	BCI	DEFG	BCI	DEFG	BCI	DEFG	BC	DEFG	BCE	DEFG	BCI	DEFG

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
 C Nickel

- For this product, please contact: G Nickel-plated copper 27 %

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AWM I A Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring 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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FT 2115f

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

SILIFLON® 200°C Fluoropolymer insulation UL and cUL approval



Approvals - standards

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

FLUOROPOLYMER INSULATED WIRES AND CABLES



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

10969 FEP 1900 FEP Style no. 10109 ETFE "Thin-wal 1332 FEP "Thick-wall" Insulation Approval 200°C - 300 V 200°C - 300 V 200°C - 300 V 200°C - 300 V Nominal Average thickness of insulation (mm) Average thickness of insulation (mm) Nominal diameter* Nominal diameter* Nominal diameter* Average thickness of insulation (mm) Nominal Average thickness cross-section diameter of insulation (mm) AWG (mm²) (mm) (mm) (mm) (mm) 0.6 0.7 30 0.05 0.15 0.20 07 0.25 0.8 0.33 0.95 28 0.15 0.9 0.09 0.8 1.05 0.20 0.25 0.33 0.15 0.8 0.20 0.9 0.25 1.0 0.33 1.15 26 0.13 24 0.22 0.15 0.9 0.20 1.0 0.25 1.1 0.33 1.3 0.34 1.05 1.15 0.33 0.15 0.20 0.25 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 0.20 1.4 0.25 0.33 0.75 0.15 1.4 0.33 1.75 0.25 1.55 0.33 1.75 18 0.93 0.15 1 5 5 0.33 19 0.25 0.33 19 0.15 0.33 1.65 0.33 1.95 0.25 1.8 1.95 16 1.34 19 0.25 2.0 0.20 0.33 2.1 0.33 2.1 1.5 0.20 19 0.33 22 0.25 0.33 22 14 0.20 0.25 2.7 2.25 0.33 2.4 0.33 0.20 0.25 2.45 2.9 2.55 2.9 2.5 0.33 2.7 0.25 0.33 27 12 0.25 3.1 0.33 3.25 0.33 3.25 0.25 0.25 3.1 3.6 0.33 3.9 0.25 3.6 0.33 3.9 0.25 3.7 0.33 3.9 0.33 3.9 0.25 8 0.64 0.64 5.4 5.7 10 6 0.64 6.6 16 0.64 67 4 0.64 7.8 25 35 0.64 8.3 0.89 1 0.89 11.0 50 0.89 114 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 B*CDFF*G Conducting metal B*CDFF*G B*CDFG B*CDFF*G

KEY Conducting metals

- В Tin-plated copper
- B*
- Tin-plated copper (ø > 0.38 mm) Nickel-plated copper С
- Silver-plated copper Nickel D
- Е
- F
- Bare copper Bare copper (ø > 0.38 mm) . F*
- G Nickel-plated copper 27 %

For this product, please contact:

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Internal wiring, not subject to mechanical abuse

AWMIA

AWM I A/B Internal wiring

VNS Voltage Not Specified

NS Not Specified

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

AWM II A/BExternal or Internal wiring

: UL approved nominal cross-sections only.

	<mark>Style no.</mark> Insulation		086 hin-wall"	10 FEP "Th	588 in-wall"		ep		ick-wall"		230 hick-wall"		203 EP		048 ick-wall"
A	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 \
cross-	ninal section	Average thickness of insulation	Nominal diameter*												
AWG	(mm²)	(mm)	(mm)												
30	0.05	0.25	0.8	0.23	0.75	0.36	1.0	0.51	1.3	0.51	1.3	0.51	1.3	0.64	1.6
28	0.09	0.25	0.9	0.23	0.85	0.36	1.1	0.51	1.4	0.51	1.4	0.51	1.4	0.64	1.7
26	0.13	0.25	1.0	0.23	0.95	0.36	1.2	0.51	1.5	0.51	1.5	0.51	1.5	0.64	1.8
24	0.22	0.25	1.1	0.23	1.05	0.36	1.35	0.51	1.65	0.51	1.65	0.51	1.65	0.64	1.9
22	0.34	0.25	1.25	0.23	1.2	0.36	1.45	0.51	1.85	0.51	1.8	0.51	1.8	0.64	2.05
-	0.5	0.25	1.4	0.23	1.35	0.36	1.65	0.51	1.95	0.51	1.95	0.51	1.95	0.64	2.2
20	0.6	0.25	1.5	0.23	1.45	0.36	1.7	0.51	2.0	0.51	2.0	0.51	2.0	0.64	2.3
-	0.75	0.25	1.55	0.23	1.5	0.36	1.8	0.51	2.1	0.51	2.1	0.51	2.1	0.64	2.4
18	0.93	0.25	1.7	0.23	1.65	0.36	2.0	0.51	2.25	0.51	2.25	0.51	2.25	0.64	2.55
-	1	0.25	1.8	0.23	1.75	0.36	2.0	0.51	2.3	0.51	2.3	0.51	2.3	0.64	2.6
16	1.34	0.25	2.0	0.23	1.95	0.36	2.2	0.51	2.5	0.51	2.55	0.51	2.5	0.64	2.8
-	1.5	0.25	2.0	0.23	1.95	0.36	2.3	0.51	2.55	0.51	2.55	0.51	2.55	0.64	2.85
14	-	0.25	2.4	0.23	2.35	0.36	2.6	0.51	3.0	0.51	3.0	0.51	3.0	0.64	3.2
-	2.5	0.25	2.55	0.23	2.5	0.36	2.75	0.51	3.0	0.51	3.0	0.51	3.0	0.64	3.3
12	-	0.38	3.2	0.23	2.9	0.36	3.1	0.51	3.4	0.51	3.4	0.51	3.4	0.64	3.6
-	4	0.38	3.35	0.23	3.1	0.36	3.3	0.51	3.6	0.51	3.6	0.51	3.6	0.64	3.9
10	-	0.38	3.8	0.23	3.5	0.36	3.8	0.51	4.0	0.51	4.0	0.51	4.0	0.64	4.3
-	6	0.38	4.0	-		0.36	4.0	0.51	4.3	0.51	4.3	0.51	4.3	0.64	4.5
8	-	0.64	5.4	-		0.51	5.2	0.76	5.3	0.76	5.6	0.76	5.6	-	-
-	10	0.64	5.7	-	-	0.51	5.4	0.76	5.9	0.76	5.9	0.76	5.9	-	
6	-	0.64	6.6			0.51	6.3	0.76	6.8	0.76	6.8	0.76	6.8		-
-	16	0.64	6.7	-		0.51	6.6	0.76	7.1	0.76	7.1	0.76	7.1	-	
4	-	0.64	7.8	-		0.51	7.4	0.76	8.0	0.76	8.0	0.76	8.0	-	-
-	25	0.64	8.3	-		0.51	8.0	0.76	8.5	0.76	8.5	0.76	8.5	-	
2	35	0.89	10.0	-		0.51	9.3	0.76	9.2	0.76	9.2	0.76	9.2		
1	-	0.89	11.0	-		0.76	10.7	1.14	11.2	1.14	11.2	1.14	11.2	-	
-	50	0.89	11.4	-		0.76	11.1	1.14	12.0	1.14	12.0	1.14	12.0	-	
1/0	-	1.14	12.5	-		0.76	11.7	1.14	12.5	1.14	12.5	1.14	12.5	-	-
2/0	70	1.14	14.0	-		0.76	12.8	1.14	14.0	1.14	14.0	1.14	14.0	-	
3/0	-	1.14	15.2	-	-	0.76	14.4	1.14	15.2	1.14	15.2	1.14	15.2		-
-	95	1.14	15.4	-		0.76	14.6	1.14	15.4	1.14	15.4	1.14	15.4		-
4/0	-	1.14	16.8		-	0.76	16.0	1.14	16.8	1.14	16.8	1.14	16.8		-
-	120	1.14	17.1			0.76	16.3	1.14	17.1	1.14	17.1	1.14	17.1		-
		D*C5				Dtop		DICO		DIAC		D*CE		DIC	050
onduc	ting metal	B+CL	DEF*G	B*CD)EF*G	B*CD	EF*G	B∗CL	DEF*G	B*CI	DEF*G	B*CL	DEF*G	B*C	DEG

KEY

- Conducting metals B Timplated copper B* Timplated copper (Ø > 0.38 mm) C Nickel-plated copper
- D Silverplated copper
 D Silverplated copper
 E Nickel
 F Bare copper (Ø > 0.38 mm)
 C Nickel Linkel

G Nickel-plated copper 27 %

- : UL approved nominal cross-sections only.

NS Not Specified VNS Voltage Not Specified

 \star 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.

AWM II A/BExternal or Internal wiring

For this product, please contact:

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Zone Industrielle - F 53600 Ambert Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10 omerin@omerin.com



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

FT 2116c

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

SILIFLON® 250°C **Fluoropolymer insulation** UL and cUL approval



Style no.

FLUOROPOLYMER INSULATED WIRES AND CABLES



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

1882

2 • Insulation: Fluorinated polymer.

1933 REA "Thinwall

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

	Insulation	PFA "T	nin-wall"		PFA
4	Approval	250°C	– VNS	250	°C – 1
	minal section	Average thickness of insulation	Nominal diameter*	Averag thickne of insulat	ss dia
AWG	(mm²)	(mm)	(mm)	(mm)	(
30	0.05	0.15	0.6	0.25	0.
28	0.09	0.15	0.7	0.25	0.
26	0.13	0.15	0.8	0.25	1.0
24	0.22	0.15	0.9	0.25	1.
22	0.34	0.15	1.05	0.25	1.:
	0.5	0.15	1.2	0.25	1.
20	0.6	0.15	1.3	0.25	1.
	0.75			0.25	1.
18	0.93			0.25	
	1	-	-	0.25	
16	1.34	-	-	0.25	2.
-	1.5			0.25	2.
14	-			-	-
	2.5			-	-
12	-			-	
	4	-	-	-	-
10	-			-	
-	6		-	-	-
8	-			-	-
	10			-	-
6	-				-
-	16	•	•	-	-
4	-	•		-	
-	25	•		-	-
2	35	•		-	
1	-	•		-	-
-	50		•		
1/0	-	•		-	-
2/0	70	•			-
3/0	-	•		-	-
4.10	95	•			
4/0	100			-	-
	120				-
Condu	cting metal	C	EG		CEG

AWMIA

AWM I A/B Internal wiring

VNS Voltage Not Specified

NS Not Specified

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

AWM II A/BExternal or Internal wiring

: UL approved nominal cross-sections only.

10486 PFA - 150 V 250°C - 300 V Nominal Nominal diameter* Average thickness diameter of insulation (mm) (mm) (mm) 0.8 0.23 0.75 0.9 0.85 0.23 0.1 0.23 0.95 1.1 0.23 1.1 0.23 1.25 1.4 0.23 14 1.55 0.23 1.55 18 0.23 1.8 0.23 1.75 2.0 2.0 0.23 0.23 20 0.23 2.3 0.23 25 0.23 28 0.23 3.05 0.23 3.6 0.23 3.65 0.51 52 0.51 5.4 0.51 0.51 6.6 0.76 8.0 0.76 8.5 0.76 96 1.14 11.2 1 14 12.0 1.14 12.5 .14 14.0 1 14 15.2 14 1.1416.81.1417.1

CFG

KEY

Conducting metals

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

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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Internal wiring, not subject to mechanical abuse

	Style no. Insulation		26 FA
4	Approval	250°C	- 300 V
	minal -section	Average thickness of insulation	Nominal diameter*
AWG	(mm²)	(mm)	(mm)
30	0.05	0.33	0.95
28	0.09	0.33	1.05
26	0.13	0.33	1.15
24	0.22	0.33	1.3
22	0.34	0.33	1.45
	0.5	0.33	1.6
20	0.6	0.33	1.65
	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
8	-	0.51	5.2
-	10	0.51	5.4
6	-	0.51	6.3
-	16	0.51	6.6
4	-	0.76	8.0
-	25	0.76	8.5
2	35	0.76	9.6
1	-	1.14	11.2
-	50	1.14	12.0
1/0	-	1.14	12.5
2/0	70	1.14	14.0
3/0	-	1.14	15.2
-	95	1.14	15.4
4/0	-	1.14	16.8
-	120	1.14	17.1
Condu	cting metal	C	EG

	362 nin-wall"		27 FA	PFA "T	371 in-wall"
250°C	- 600 V	250°C	- 600 V		• 1000 V 500 V)
Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
. ,	. ,	. ,	. ,	. ,	. ,
0.25	0.8	0.51	1.3	0.51	1.3
0.25	0.9	0.51	1.4	0.51	1.4
0.25	1.0	0.51	1.5	0.51	1.5
0.25	1.1	0.51	1.65	0.51	1.65
0.25	1.25	0.51	1.8	0.51	1.8
0.25	1.4	0.51	1.95	0.51	1.95
	1.5				
0.25	1.55	0.51	2.1	0.51	2.1
0.25	1.8	0.51	2.3	0.51	2.3
0.25	2.0	0.51	2.45	0.51	2.45
0.25	2.0	0.51	2.65	0.51	2.55
0.25	2.4	0.51	2.85	0.51	2.8
0.25	2.55	0.51	3.0	0.51	3.0
0.25	2.9	0.51	3.4	0.51	3.4
0.25	3.1	0.51	3.6	0.51	3.6
0.25	3.6	0.51	4.2	0.51	4.2
0.25	3.7	0.51	4.3	0.51	4.3
0.76	5.8	0.76	5.7	0.76	5.7
0.76	5.9	0.76	5.9	0.76	5.9
0.76	6.8	0.76	6.8	0.76	6.8
0.76	7.1	0.76	7.1	0.76	7.1
0.76	8.0	0.76	8.0	0.76	8.0
0.76	8.5	0.76	8.5	0.76	8.5
0.76	9.6	0.76	9.6	0.76	9.6
1.14	11.2	1.14	11.2	1.14	11.2
	12.0		12.0		12.0
1.14	12.5	1.14	12.5	1.14	12.5
1.14	14.0	1.14	14.0	1.14	14.0
1.14	15.2	1.14	15.2	1.14	15.2
1.14	15.4	1.14	15.4	1.14	15.4
1.14	16.8	1.14	16.8	1.14	16.8
1.14	17.1	1.14	17.1	1.14	17.1
CI	EG	C	G	C	EG

KEY

- KEY

 Conducting metals

 B
 Timplated copper

 B* Timplated copper (Ø > 0.38 mm)

 C
 Nickel-plated copper

 C
 Nickel-plated copper
- C Nickel-plated copper
 D Silverplated copper
 E Nickel
 F Bare copper (Ø > 0.38 mm)
 E Hickel

- G Nickel-plated copper 27 %

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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27

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

- AWM II A/BExternal or Internal wiring
- NS Not Specified VNS Voltage Not Specified
- E: 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.

FT 2117b

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

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

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

For this product, please contact:

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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FT 2118b

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

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

	C	ONCENTRIC COP	RE	INSULAT	ED WIRE
	ninal section (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:

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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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FT 2119b

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

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

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

* Non-concentric cores.

For this product, please contact:

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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FT 2120a

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

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

	CC	DNCENTRIC CO	RE	INSULAT	ED WIRE
Non cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	612	0.53	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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FT 2121b

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

SILIFLON® KZ 08 -55 °C to +260 °C



1 • Concentric nickel-plated copper core.

2 • Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

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

Options

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

Characteristics General

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

Electrical (as per UTE C 93-523)

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

Standard products

• Standard insulation colours: all solid colours.

KZ 08

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

* Non-concentric cores

For this product, please contact:

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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FT 2122b

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

SILIFLON® KZ 09 -55 °C to +260 °C



1 • Concentric nickel-plated copper core.

2 • Insulation: PTFE tape(s).

Approvals - standards

• Inspired from NF C 93-523 standard.

Applications

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

Options

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

Characteristics General

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

Electrical (as per UTE C 93-523)

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

Standard products

• Standard insulation colours: all solid colours.

KZ 09

	C	DNCENTRIC COR	INSULATED WIRE		
Nom cross-s AWG		Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
32	0.035	7 x 0.08	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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FT 2123b

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

SILIFLON® CN5YS and **A5YS VDE** approval

-90 °C to +250 °C



2 2 1 VDE-Reg-Nr 7830

- 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. RCNSYS) or rigid silverplated (ref. RASYS) copper core - class 1 as per IEC 60228 / DIN VDE 0295.
- 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

Characteristics

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

Standard products

• Standard insulation colour: white.

CN5YS and A5YS

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

* Nominal cross-section not described in IEC 60228

For this product, please contact:

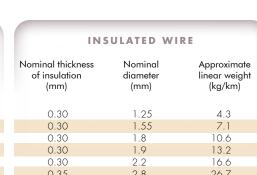
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FT 2124a

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

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



Approvals - standards

 Nickel-plated copper complying with the 2% class as per standard ASTM B355. • UL approval as per standard UL 758 -

- File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 File no.: E101965.
 - - "Horizontal flame test" as per UL approval. "FT1 flame rating" as per cUL approval.
 - **Applications**
 - Internal cabling for electrical or electronic appliances.

Options

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

 - Other nominal stranding: contact us.
 Other style no. available:
 - style 10487 with PTFE tape + glass tape(s) based insulation.



Characteristics

General

- 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

N	ULTISTRAI	ND CORE	INS	INSULATED WIRE				
	ninal section (mm²)	Nominal stranding*	Nominal thickness of insulation (mm)	Nominal diameter** (mm)	Approximate linear weight (kg/km)			
30	0.05	7 x 0.10	0.15	0.66	1.1			
28	0.09	7 x 0.13	0.15	0.76	1.6			
26	0.14	7 x 0.16	0.15	0.86	2.1			
24	0.22	7 x 0.20	0.15	0.99	3.0			
22	0.34	7 x 0.25	0.15	1.16	4.4			
-	0.5	7 x 0.30	0.15	1.30	6.1			
20	0.6	19 x 0.20	0.15	1.38	7.0			
-	0.75	24 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			

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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.

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FLUOROPOLYMER INSULATED WIRES AND CABLES

2	2	1	
SILIFLON 250C 10506 🔊 AWM			

1 • Multistrand nickel-plated copper core.

2 • Insulation: PTFE tape(s).

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



FLUOROPOLYMER INSULATED WIRES AND CABLES

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

2 • Insulation: Fluorinated polymer.

Applications

• Pure nickel core: contact us.

> Tin-plated copper braid: contact us.

• Other nominal stranding: contact us.

• Other nominal cross-sections: contact us.

• Outer electrical shielding:

• Other colours: contact us.

Options

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

Characteristics

- 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
n silver-plated copper	AETFE-HT	AFEP-HT	AMFA-HT	APFA-HT
n nickel-plated copper	CNETFE-HT	CNFEP-HT	CNMFA-HT	CNPFA-HT

c	ONDUCTI	NG CORE										
			12	2 KV	15	5 KV	20) KV	25	5 KV	30) KV
Nominal cross- section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal diameter	Approximate linear weight								
(mm²)		(Ω/km) (tin-plated copper core)	(mm)	(kg/km)								
0.22	7 x 0.20	92.5	1.4	4.7	1.5	5.2	1.7	6.3	1.8	6.8	2.0	8.1
0.34	7 x 0.25	59.2	1.6	6.5	1.7	7.0	1.8	7.6	2.0	8.9	2.2	10.3
0.5	16 x 0.20	40.1	1.7	8.1	1.8	8.7	1.9	9.3	2.1	10.7	2.3	12.2
0.6	19 x 0.20	33.7	1.8	9.3	1.9	9.9	2.0	10.6	2.2	12.0	2.4	13.6
0.75	24 x 0.20	26.7	1.9	10.9	2.0	11.6	2.1	12.3	2.3	13.8	2.5	15.4
0.93	19 x 0.25	21.6	2.0	12.8	2.1	13.5	2.3	14.9	2.4	15.7	2.6	17.4
1	32 x 0.20	20.0	2.1	13.9	2.2	14.6	2.3	15.4	2.5	17.0	2.7	18.8
1.34	19 x 0.30	15.0	2.3	17.6	2.4	18.4	2.5	19.2	2.7	21.0	2.8	21.9
1.5	30 x 0.25	13.7	2.4	19.2	2.4	19.2	2.6	20.9	2.7	21.8	2.9	23.6
2.5	50 x 0.25	8.21	2.8	29.0	2.9	29.9	3.0	30.9	3.2	33.0	3.3	34.1

INSULATED WIRE - Voltage*

For this product, please contact:

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* Pulse voltage.

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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.

FT 2126c

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

SILIFLON[®] HT Ignition wires UL and cUL approval



Characteristics General

FLUOROPOLYMER INSULATED WIRES AND CABLES



10195 5000

- 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

Options

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

27% nickel-plated copper core: contact us.

Style no.

Other nominal cross-sections: contact us.

• Pure nickel core: contact us.

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

Excellent resistance to humidity and UV.

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

1012

Standard products

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

Excellent mechanical strength.

10185-E150 1911-F150

Jiyle no.		1010.		17111150			
A	pproval		0 KV AC** 500 V)		150 °C - 20 KV DC** (cUL 1000 V)		
	ninal section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)		
30	0.05						
28	0.09						
26	0.13		-				
24	0.22	0.36	1.4	0.48	1.6		
22	0.34	0.36	1.5	0.48	1.75		
-	0.5	0.36	1.65	0.48	1.9		
20	0.6	0.36	1.7	0.48	2.0		
-	0.75	0.36	1.85	0.48	2.1		
18	0.93	0.36	2.0	0.48	2.2		
-	1	0.36	2.05	0.48	2.25		
16	1.34	0.36	2.2	0.48	2.5		
-	1.5	0.36	2.3	0.48	2.55		
14	-	0.36	2.6	0.48	2.9		
-	2.5	0.36	2.8	0.48	3.0		
12	-	0.36	3.1	0.48	3.35		
-	4	0.36	3.4	0.48	3.6		
10	-	0.36	3.8	0.48	4.0		
-	6	0.36	3.9	0.48	4.2		
Co	onducting metal	BCE	DEFG	BCE	DEFG		

18	13	10185-E200				
	- 3000 V	200 °C - 10 KV AC** (cUL 150°C -600 V)				
Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)			
0.64	1.6	-	-			
0.64	1.7	-				
0.64	1.8	-				
0.64	1.9	0.36	1.4			
0.64	2.05	0.36	1.5			
0.64	2.2	0.36	1.65			
0.64	2.3	0.36	1.7			
0.64	2.4	0.36	1.85			
0.64	2.55	0.36	2.0			
0.64	2.6	0.36	2.05			
0.64	2.8	0.36	2.2			
0.64	2.9	0.36	2.3			
0.64	3.15	0.36	2.6			
0.64	3.35	0.36	2.8			
0.64	3.65	0.36	3.1			
0.64	3.9	0.36	3.4			
0.64	4.3	0.36	3.8			
0.64	4.5	0.36	3.9			
B*C	DEFG	B*CI	DEF*G			

1911-F250

250 °C - 3	20 KV DC**
Average thickness of insulation (mm)	Nominal diameter*
()	()
-	-
-	
0.61	1.8
0.61	1.95
0.61	2.15
0.61	2.15
0.61	2.35
	2.5
0.61	2.55
0.61	2.7
0.61	2.8
0.61	3.0
0.61	3.3
	3.6
0.61	3.85
0.61	4.25
0.61	4.4
C	EG

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C Nickel-plated copper D Silver-plated copper

Bare copper

KEY Conducting metals

Е Nickel

F

. F*

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G Nickel-plated copper 27 %

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

Bare copper (ø > 0.38 mm)

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

- NS Not Specified
- VNS Voltage Not Specified

: UL approved nominal cross-sections only

* 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.

FT 2127a

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

SILIFLON® M6-E6 -90 °C to +205 °C



Flexible tin-plated copper core – class 5 as per IEC 60228
 Insulation: Fluorinated polymer FEP.

- 3 Outer sheath: Fluorinated polymer FEP.

Applications

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

Options

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

Characteristics General

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

Electrical

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

Standard products

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

For this product, please contact:

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FLUOROPOLYMER INSULATED WIRES AND CABLES

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

For this product, please contact:

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FT 2128a

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

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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FLUOROPOLYMER INSULATED WIRES AND CABLES

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

For this product, please contact:

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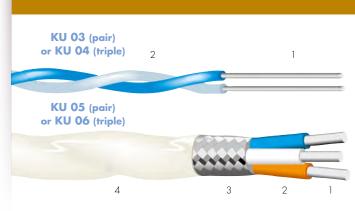
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FT 2129b

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

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

FLUOROPOLYMER INSULATED WIRES AND CABLES



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.

1 • Concentric tin-plated copper core.

- Insulation: Fluorinated polymer ETFE.
 Electrical shielding: Tin-plated copper braid.
- 4 Outer sheath: Fluorinated polymer ETFE.
- **Characteristics** General
 - Continuous operating temperatures: -55 °C to +150 °C.
 - Excellent resistance to aggressive chemical environments.
 - Excellent resistance to humidity and UV.

Excellent mechanical strength.

- Electrical (as per UTE C 93-524)
 - Rated voltage: 600 Vac 850 Vdc.
 - Test voltage: KU 03 and KU 04: 3400 Vac.
 - KU 05 and KU 06: 1500 Vac.

Standard products

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

	CON	IDUCTOR	S (TYPE KU (01)								
					KL	J 03	KI	J 04	KL	J 05	κι	J 06
cross	minal -section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	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)
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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www.omerin.com

Style no.

Insulation Approval

0.6

0.6

0.6

0.6

0.75

0.75

0.75

0.75

0.75

0.93

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Conducting metal

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2.25

Nominal

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

SILIFLON® 150 °C **Fluoropolymer** insulation

Fluoropolymer sheathing UL and cUL approval



FLUOROPOLYMER INSULATED WIRES AND CABLES

2 NA RWN 11 R/B 1500 3000 FT1 SILIFLON 1500 20221 NA AWN

20221-E150

ETFE "Thin-wall

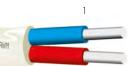
150 °C - 300 V

Nominal

AWM II A/B

(Wall 0.25 mm)

Nominal



20222-E150

ETFE "Thin-wall'

150 °C - 600 V

Nominal

AWM II A/B (Wall 0.38 mm)

Nominal

diameter of the cable

(mm)

2.9

3.0

3.3

3.6

40

3.1

3.2

3.5

39

4.3

3.4

3.6

39

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4.7

3.6

3.8

4.2

4.6

5.0

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5.3

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5.7

6.4

44

4.7

57

6.4

48

5.1

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6.4

7.0

4.8

5.1

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6.4

70

5.6

6.2

6.8

7.5

8.4

BCDFFG

20905-E150

ETFE "Thin-wall"

150 °C - 300 V

Nominal

AWM II A/B

(Wall 0.51 mm)

Nominal

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

Internal wiring, not subject to mechanical abuse

AWM I A/B Internal wiring AWM II A/BExternal or Internal wiring

: UL approved nominal cross-sections

Not Specified

VNS Voltage Not Specified

- Electrical shielding: Tin-plated copper braid,
 - or aluminium tape + continuity wire.
 - Other outer sheath colours: contact us.

AWMIA

- Other nominal cross-sections: contact us.
- Conductors with a silicone insulation : contact us.

NE I

- Conducting metals
- Tin-plated copper R*
- Tin-plated copper (ø > 0.38 mm) Nickel-plated copper С
- D Silver-plated copper
- Е Nickel
- F Bare copper
- F* Bare copper (ø > 0.38 mm) G Nickel-plated copper 27 %
- * The diameter is provided for informatio $\rho\eta j \mu$ rposes 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

NS

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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diameter of the cond.* diameter of the cond.* diameter of the cable diameter of the cond.* diameter of the cable AWG No. of cond. (mm²) (mm) (mm) (mm) (mm) (mm) 26 0.13 0.75 2.0 0.75 2.5 1.05 26 0.13 0.75 2.1 0.75 2.6 1.05 3 0.75 0.13 0.75 26 1.05 4 2.3 2.8 5 26 0.13 0.75 2.6 0.75 3.0 1.05 26 0.13 0.75 2.9 0.75 3.3 1.05 24 0.22 0.9 2.3 0.9 2.8 1.15 24 1.15 3 0.22 0.9 2.4 0.9 3.0 0.9 0.9 24 0.22 2.8 3.2 1.1.5 5 24 0.22 09 3.0 0.9 3.5 24 0.9 0.9 3.7 0.22 3.3 1.05 27 1.05 3.1 0.34 22 0.34 1.05 2.9 3.3 1.3 1.05 0.34 1.05 1.05 3.6 Δ 3 1 1.3 1.3 22 0.34 1.05 3.4 3.9 1.05 0.34 1.05 4.C 1.05 4.2 1.3 1.25 2 0.5 1.25 3.5 3.7 1.4 3 1.4 0.5 1 25 3.3 0.5 1.25 3.8 .25 4.0 14 1.4 5 0.5 1.25 4.2 1.25 4.4 0.5 1.25 4.6 1 25 4.8 1.4 20 0.6 1.3 3.2 1.3 3.6 15 2 1.5 3 20

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5.2

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5 5

6.0

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5.6 6.2

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6.7

5 5

5.9

6.4

7.1 7.8

BCDFFG

FT 2131a

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

SILIFLON® 200 °C **Fluoropolymer insulation**

Fluoropolymer sheathing UL and cUL 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

 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.

KEY Conducting metals B Tin-plated copper B Tin-plated copper (a > 0.38 mm) C Nickel-plated copper D Silverplated copper E Nickel F Bare copper F Bare copper (a > 0.38 mm) G Nickel-plated copper 27 %	AWM I A Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring AWM II A/BExternal or Internal wiring NS Not Specified VNS Voltage Not Specified
G Nickel-plated copper 27 %	UL approved nominal cross-sections only.
* The diameter is provided for information on the stranding of the core. Only the average thickness of insulation	on purposes as it may vary depending 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

LES CABLES DE L'EXTREME

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FLUOROPOLYMER INSULATED WIRES AND CABLES



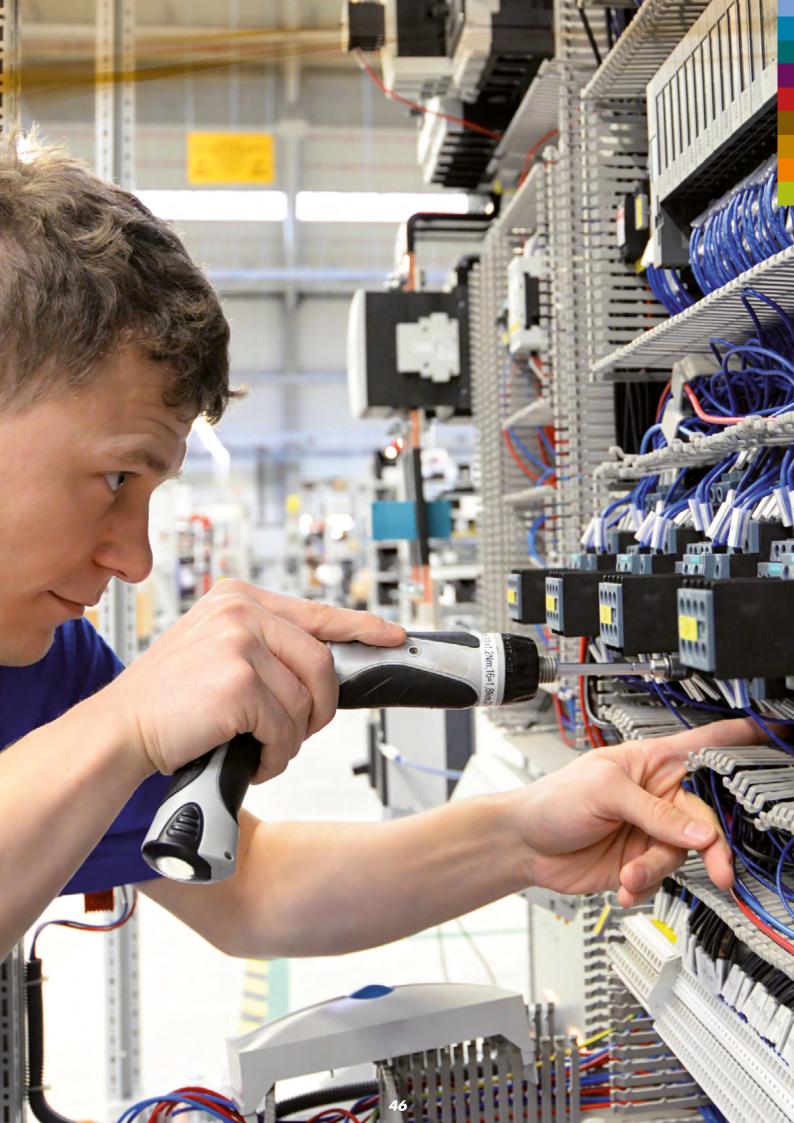
1 • UL and cUL approved conductors with fluoropolymer insulation

2 • Outer sheath: Fluorinated polymer.

		Insulation	ETFE "T	1 -F200 hin-wall"		1-F200	ETFE "T	-F200 hin-wall"
		Approval		- 300 V AWM I A/B Wall 0.25 mm)		- 300 V AWM I A/B Wall 0.25 mm)		- 300 V AWM I A/B Wall 0.51 mm)
		ominal s-section	Nominal diameter of	Nominal diameter	Nominal diameter of	Nominal diameter	Nominal diameter of	Nominal diameter
No. of con	d. AWG	(mm²)	the cond.* (mm)	of the cable* (mm)	the cond.* (mm)	of the cable* (mm)	the cond.* (mm)	of the cable* (mm)
2	26	0.13	0.8	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
7	-	0.5 0.5	1.25	4.1 4.5	1.4	4.6 5.0	1.25	4.3 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 5		1.5	1.9	5.3	2.0	5.6	1.9	5.5
7	-	1.5 1.5	1.9 1.9	6.1 6.7	2.0 2.0	6.4 7.0	1.9 1.9	6.1 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
	Condu	ucting metal	B*CD	EF*G	B*C	DEG	B*CE	DEF*G



		Style no. Insulation		- F200		D-F200 hin-wall"		0-F200		D-F200 Thin-wall"		- F200
		Approval	200 °C - 300 V AWM I A/B (Wall 0.25 mm)			– 600 V AWM I A/B Wall 0.30 mm)		- 600 V AWM I A/B Wall 0.30 mm)		- 600 V AWM I A/B (Wall 0.51 mm)	200 °C	– 600 V AWM I A/B Wall 0.51 m
		minal	Nominal	Nominal	Nominal	Nominal	Nominal	Nominal	Nominal	Nominal	Nominal	Nominal
o. of cond.		-section (mm ²)	diameter of the cond.* (mm)	diameter of the cable* (mm)	diameter of the cond.* (mm)	diameter of the cable* (mm)	diameter of the cond.* (mm)	diameter of the cable* (mm)	diameter of the cond.* (mm)	diameter of the cable* (mm)	diameter of the cond.* (mm)	
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 7	22 22	0.34	1.25	4.4	1.25	4.1	1.45	4.7	1.25	4.3	1.45	4.9
	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 5		0.5	1.4	4.4	1.4	4.1	1.65	4.8 5.3	1.4	4.3 4.8	1.65	5.0 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
4		0.75	1.55	4.4 4.8	1.55 1.55	4.1 4.5	1.8 1.8	4.7 5.1	1.55	4.3 4.7	1.8 1.8	4.9 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	4.4	1.0	4.4	2.0	5.1	1.8	4.0	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 5	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 16	1.34 1.34	2.0 2.0	6.4 7.0	2.0 2.0	6.4 7.0	2.2 2.2	6.9 7.6	2.0 2.0	6.4 7.0	2.2 2.2	7.0 7.6
2 3	-	1.5	2.0	5.0	2.0	4.8	2.3	5.4	2.0	5.0	2.3	5.6
		1.5 1.5	2.0 2.0	5.3 5.8	2.0 2.0	5.1 5.6	2.3 2.3	5.8 6.5	2.0 2.0	5.3 5.8	2.3 2.3	6.0 6.6
4 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
	~ .	cting metal	D*C	DEG	D*CD	DEF*G	D*CE	DEF*G	D*CI	DEF*G	DICO	EF*G



THERMOPLASTIC INSULATED WIRES AND CABLES

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2204	PLASTHERM Style 1015-HAR		54
2205	PLASTHERM Style 20199, 2-conductor flat cable	c 💭 us	55
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2207	PLASTHERM 80 °C - PVC insulation and sheathing		58
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2209	PLASTHERM 105 °C - PVC insulation and sheathing	c 💭 us	60
2210	PLASTHERM 90 °C - Polyolefin insulation	c 👧 us	61
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FT 2201b

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

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



THERMOPLASTIC INSULATED WIRES AND CABLES

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 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.

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

2 • Insulation: PVC 105 °C.

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 ò3600 Ambert Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10 omerin@omerin.com



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Y2 and EY2

	Flexible core		INSULATI	ED 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 × 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

- Pilon						
		Solid core		INSU	JLATED WIR	E
	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 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		INS	ULATED WIRE	
0.05	24 × 0.05	405	0.2	0.7	0.9
0.14	70 x 0.05	159	0.3	1.1	2.3
0.25	130 x 0.05 or 60 x 0.07	86.6	0.3	1.2	3.4
0.34	180 x 0.05 or 90 x 0.07 or 40 x 0.10	59.9	0.4	1.6	5.2
0.4	200 x 0.05 or 100 x 0.07 or 50 x 0.10	50.7	0.45	1.8	6.2
0.5	260 x 0.05 or 130 x 0.07 or 60 x 0.10	40.7	0.45	1.9	7.4
0.75	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



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FT 2202c

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

PLASTHERM[®] 80 °C **PVC** insulation UL and cUL approval



THERMOPLASTIC INSULATED WIRES AND CABLES



Bare or tin-plated copper core.
 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.

D

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



		Style no.	10	007	14	497	15	581
	4	Approval	80 °C	- 300 V	80 °C	- 300 V	80 °C	- 300 V
		minal -section	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*
	AWG	(mm²)	tion	(mm)	tion (mm)	(mm)	tion (mm)	(mm)
	30	0.05	(mm) 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	-	÷	-		-	· · · · ·
C	Condu	cting metal	BCI	DEFG	BCI	DEFG	BCE	DEFG

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

: UL approved nominal cross-sections only.

- NS Not Specified VNS Voltage Not Specified
- Nickel Bare copper

KEY Conducting metals

E F F* Bare copper (ø > 0.38 mm)

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

G Nickel-plated copper 27 %

Silver-plated copper

* 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.	10	053	10	011	10	381	10	030
A	pproval	80 °C	- 300 V	80 °C	- 600 V	80 °C	- 600 V	80 °C -	- 1000
	ninal section	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nominal diameter*	Average thickness of insula-	Nomin diamete
AWG	(mm²)	tion	(mm)	tion	(mm)	tion	(mm)	tion	(mm)
30	0.05	(mm) 0.56	1.45	(mm) 0,76	1.85	(mm) 0.51	1.3	(mm) 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	-	1
Conduc	ting metal	BCI	DEFG	BC	DEFG	BC	DEFG	BCI	DEFG

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



1011

– 1000 V

Nominal

diameter*

(mm)

- KEY
- Conducting metals B Tin-plated corr
- B Timplated copper B* Timplated copper (\$ > 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 %

* 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.

VNS Voltage Not Specified

NS Not Specified

AWM II A/BExternal or Internal wiring

E: UL approved nominal cross-sections only.

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 AWM I A $% (\mathsf{I},\mathsf{A},\mathsf{A})$ Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring

FT 2203g

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

PLASTHERM[®] 105°C **PVC** insulation UL and cUL approval



THERMOPLASTIC INSULATED WIRES AND CABLES



10012

(mm)

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51

0.51 0.51

0.51

0.51

0.51

0.51

0.51

0.76

0.76

1.14

1.14

1.14

1.14

1.14

1.52

1.52

1.52

1.52

1.52

BCDEFG

Nominal

(mm)

1.3

1.4

1.5

1.65

18

1.95

2.0

2.15

2 25

2.35

2.5

27

2.9

3.1

3.4

3.65

4.0 4.2

5.5

6.1

7.6

7.7

89

9.4

10.5

124

12.8

13.5

14.6

16.2

16.3

1 • Bare or tin-plated copper core.

2 • Insulation: PVC

General

1896 1569-VW-1 10198 Style no. Approval 105°C - 300 V 105°C - 600 V 105°C - 300 V 105°C - 300 V Nominal Nominal Nominal Nominal Average Average Average Average cross-section thickness diameter' thickness diameter thickness diameter thickness diameter of insulation of insulation of insulation of insulation AWG (mm²) (mm) (mm) (mm) (mm) (mm) (mm) 11 30 0.05 0.38 11 0.38 28 0.09 0.38 1.15 0.38 1.15 26 0.13 0.89 0.38 0.38 1.25 2.3 1.2 24 0.22 0.38 1.4 0.38 1.4 0.89 2.4 22 0.34 0.38 0.38 1.5 0.89 2.55 1.6 0.5 0.38 1.7 0.38 1.7 0.89 2.7 20 1.75 2.75 0.6 0.38 1.8 0.38 0.89 2.9 0.75 0.38 19 0.38 1.9 0.89 18 0.93 0.38 2.05 0.38 2.0 0.89 3.1 2.1 0.38 2.1 0.89 1 0.38 3.1 1.34 16 0.38 23 0.38 2.3 0.89 34 1.5 0.38 2.4 0.38 2.4 0.89 3.4 14 0.38 2.7 0.51 2.9 0.89 3.7 2.5 3.9 2.8 0.89 0.38 0.51 3.1 12 0.38 32 0.51 34 0.89 13 3.4 0.51 0.89 4.5 4 0.38 3.65 4.9 0.38 3.8 0.51 4.0 0.89 0.38 4.0 0.51 0.89 5.1 6 4.2 8 0.76 5.5 0.76 5.5 0.89 5.8 10 0.76 6.1 0.76 0.89 6.4 6.1 71 6 0.76 6.9 0.76 6.9 0.89 16 0.76 7.2 0.76 7.2 0.89 74 0.76 4 8.1 8.1 0.89 8.4 0.76 25 0.76 8.6 0.76 8.6 0.89 9.0 2 35 0.76 9.7 0.76 9.7 0.89 1 11.4 0.89 11.2 50 11.8 0.89 11.5 1/0 0.89 1.02 12.5 12.2 2/0 70 1 27 141 0.89 13.3 3/0 1.27 15.7 0.89 14.9 95 1.27 15.8 0.89 15.1 4/0 17.3 1.27 0.89 16.5 120 1.27 17.6 0.89 16.8 Conducting metal **BCDEFG BCDEFG** BF

Characteristics

• 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.

KEY		

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

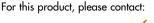
AWMIA Internal wiring, not subject to mechanical abuse AWM I A/B Internal wiring AWM I A/B Internal wiring AWM II A/B External or Internal wiring

- 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.	10	15	12	83	18	97	109	214	102	271	10:	269
A	pproval	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
cross	minal -section	Average thickness of insulation	Nominal diameter*										
AWG	(mm²)	(mm)	(mm)										
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	13.6	-	-	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
Conduc	ting metal	BCD	efg	BCD	DEFG	BCD	efg	BCD	EFG	BCD	efg	BCD	efg

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 F* Bare copper (ø > 0.38 mm)

 G Nickel-plated copper 27 %

KEY

AWM I A/B Internal wiring AWM I A/B Internal wiring AWM II A/BExternal or Internal wiring

Internal wiring, not subject to mechanical abuse

NS Not Specified VNS Voltage Not Specified

AWMIA

E: 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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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 E* Bare copper

FT 2204c

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

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



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.

Tin-plated copper core.

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)				
Туре Н05V2-К									
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 ⊲HARD

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THERMOPLASTIC INSULATED WIRES AND CABLES



- 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.

Characteristics General

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

Electrical

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

Standard products

All colours including two-coloured.

Options

FT 2205c

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

PLASTHERM® Style 20199 2-conductor flat cable 105°C PVC insulation UL approval -30 °C to +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.



THERMOPLASTIC INSULATED WIRES AND CABLES



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

Characteristics

General

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

Electrical

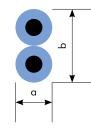
- Rated voltage: 300 V.
- Test voltage: as per standard UL 758.

Standard products

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

Style 20199

		FLEXIBLE CORE		IN	SULATED CABLE		
	ninal section (mm²)	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 24	2 x 0.22	7 x 0.20	87.6	1.4	3.0	7.5	
2 x 22	2 x 0.34	7 x 0.25	55.4	1.5	3.2	9.8	
	2 x 0.5	16 x 0.20	39.0	1.7	3.6	13.0	
2 x 20	2 x 0.6	19 x 0.20	34.6	1.7	3.6	15.7	



For this product, please contact:

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FT 2206b

FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

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



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

Applications

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

Options

• Silver-plated (ref. MY2-AY2) or nickel-plated (ref. MY2-CNY2) copper core: contact us. Electrical shielding: > Tin-plated copper braid: ref. MY2BE-Y2 or MY2BE-EY2. > Aluminium tape + continuity wire: ref. MY2BAL-Y2 or MY2BAL-EY2. • Insulation and/or outer sheath made of PVC 80°C: contact us. • Insulation and/or outer sheath made of PVC 125 °C: contact us. • Insulation made of silicone rubber: contact us. • Insulation made of fluorinated polymer ETFE,

FEP or PFA: contact us. • Other nominal metric or American

- cross-sections: contact us.
- Other nominal stranding: contact us.
- Other outer sheath colours: contact us.
- Other options and/or combinations

of the options outlined above: contact us.

• Other numbers of conductors: contact us.

Characteristics General

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

Electrical

- Rated voltage: up to 600/1000 V.
- Test voltage: up to 3000 V.

Standard products

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

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
2	-	blue – brown
3	yellow/green – blue – brown	brown – black – grey
4	yellow/green – brown – black – grey	blue – brown – black – grey
5	yellow/green – blue – brown – black – grey	blue – brown – black – grey – black
≥6	yellow/green – grey numbered	grey numbered

Identification

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

- < Number of conductors > X < Cross-section > (mm²) (example: 3 X 1.5 mm²).
- Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm²).

Flexible	e core • class 5 as per IEC	60228	INSULATED CO	ONDUCTORS	SHEATH	IED CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)
2 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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FT 2206b

Flexible core • class 5 as per IEC 60228			INSULATED CO	ONDUCTORS	SHEATHED CABLE		
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight	
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)	
2 x 0.5	16 x 0.20	40.1	0.4	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 7 x 0.5	16 x 0.20 16 x 0.20	40.1	0.4	1.8	6.1 6.6	52.4 68.0	
19 x 0.5	16 x 0.20	40.1	0.4	1.8	11.0	180	
17 X 0.0	10 X 0.20	-0.1	0.4	1.0	11.0	100	
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 7 x 0.6	19 x 0.20 19 x 0.20	33.7 33.7	0.6	2.2	7.5 8.2	75.2 96.7	
19 x 0.6	19 x 0.20	33.7	0.6	2.2	13.2	243	
17 X 0.0	17 X 0.20	00.7	0.0	2.2	10.2	240	
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	
2 x 1 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	
0.104	10 0.00	15.0	0.4	0.7		(0.0	
2 x 1.34 3 x 1.34	19 x 0.30 19 x 0.30	15.0	0.6	2.7 2.7	6.6 7.0	62.0 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 5 x 1.5	30 x 0.25	13.7 13.7	0.6 0.6	2.8	8.3 9.2	109	
7 x 1.5	30 x 0.25 30 x 0.25	13.7	0.6	2.8 2.8	9.2	131 172	
/ X 1.5	00 x 0.20	10.7	0.0	2.0	10.0	17 2	
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 × 4	56 x 0.30	5.09	0.8	4.2	10.0	153	
2 × 4 3 × 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	
0 - 1	04 0.00	0.00		1.0	11 /	01/	
2×6	84 x 0.30	3.39	0.8	4.8	11.6	216	
3 x 6 4 x 6	84 x 0.30 84 x 0.30	3.39 3.39	0.8 0.8	4.8 4.8	12.4 13.8	276 350	
5 x 6	84 x 0.30	3.39	0.8	4.8	15.8	444	
7×6	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 7 x 10	77 x 0.40 77 x 0.40	1.95	1.0	6.4 6.4	19.9 21.8	693 926	
7 X TU	// x 0.40	1.40	1.0	0.4	21.0	720	
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	

FT 2207b

FOR THE GENERAL MARKET • SECTION II FLUOROPOLYMERS AND THERMOPLASTICS

PLASTHERM[®] 80 °C **PVC** insulation **PVC** sheathing **UL and cUL approval**



THERMOPLASTIC INSULATED WIRES AND CABLES



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

Style no.

Approval

2464-Y80

80 °C - 300 V

AWM II A/B

2570-Y80

80 °C - 600 or 1000 V

AWM II A/B

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

Internal wiring, not subject to mechanical abuse

· 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.

		Nominal pss-section	Nominal diameter*	Nominal diameter*	Nominal diameter*	Nominal diameter*
No	of cond. AWG	(mm²)	of the cond. (mm)	of the cable (mm)	of the cond. (mm)	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		2.6	8.5
	7 20	0.6	1.75	6.2 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
		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
	Conc	lucting metal	BC	DEFG	BC	DEFG
_		U .				

KEY Conducting metals

- В Tin-plated copper
- B* Tin-plated copper (ø > 0.38 mm)
- Nickel-plated copper Silver-plated copper С D
- Nickel
- E F Bare copper

F* Bare copper (ø > 0.38 mm)

G Nickel-plated copper 27 %

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

NS Not Specified

VNS Voltage Not Specified

AWM I A/B Internal wiring AWM I A/B Internal wiring AWM II A/B External or Internal wiring

: UL approved nominal cross-sections only.

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

AWM I A

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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FT 2208b

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

PLASTHERM® 90 °C **PVC** insulation **PVC** sheathing **UL and cUL approval**



THERMOPLASTIC INSULATED WIRES AND CABLES

2 1 ASTHERM 90C 300V 2654 🔊 AWM

Style no.

Approval

Nominal

AWG

26

26 26

26

26

24

24

24

24

24

22

22

22 22

20 20

20

20

20

18

18

18

18

18

No. of cond.

3

4

5

3

5

Δ

5

3

4

5

3

5

3

Δ

5

3

5

section

(mm²)

0.13

0.13

0.13

0.13

0.13

0.22

0.22

0.22

0.22

0.34

0.34

0.34

0.34

0.34

0.5

0.5

0.5

0.5

0.5

0.6

0.6

0.6

0.6

0.6

0.75

0.75

0.75

0.75

0.75

0.93

0.93

0.93

0.93

0.93

1 34

1.34

34

1.34

1.34

1.5

1.5

1.5 1.5

1.5

Conducting metal

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

Nominal

diameter* of the cond.

(mm)

1.2

1.2

1.2

1.2

1.4

1.4 1.4

1.4 1.4

1.6

1.6

1.6 1.6

1.6

1.7 1.7 1.7

1.7 1.7

1.8

1.8 1.8

1.8

1.8

1.9 1.9

1.9 1.9

1.9

2.05

2.05

2.05

2.05

2 0.5

2.1

2.1

2.1

2.1

2.3 2.3

2.3 2.3

2.3

2.4

2.4 2.4

2.4

24

2.7

2.7 2.7

2.7 2.7

2654-Y90

90 °C – 300 V

AWM II A/B

Nominal

diameter* of the cable

(mm)

4.1

4.4

4.8

5.1

4.3

4.5

4.9

5.3 5.7

47

5.0

5.4

5.8

6.3

4.9

5.2

5.6

6.1

6.6

5.1

5.4

5.9

6.4

6.9

5.3

5.6

6.7

5.6

5.9

6.5

7.1

5.7

6.1

6.6

7.2

78

61

6.5

7.7

8.4

6.3

6.7

7.3

8.0

87

6.9

7.4

8.0

8.8

96

BCDEFG

2587-Y90

90 °C – 600 V

Nominal

diameter* of the cond.

(mm)

2.

2.1

2.1 2.1

2.1

22

2.2

2.2

22

2.2

2.3

2.3

2.3 2.3

2.3

2.45

2.45

2.45

2.45

2.45

2.6

2.6 2.6

2.6

2.6

2.65 2.65

2.65

2.65

2.65

2.8

2.8

2.8

2.8

2.8

2.8

2.8

2.8

28

28

3.0

3.0

3.0

3.0

3.0

3.

3.1

3.

3.1

3.1

3.45

3 4 5

3.45

3.45

3 4 5

AWM II A/B

Nominal

of the cable

(mm)

57

6.1

6.6 7.2

7.8

5.9

6.3

6.8

7.5

8.1

61

6.5

7.7

8.4

6.4

6.8

7.4

8.1

89

6.7 7.1 7.8

8.5

9.3

6.8 7.2

70

8.7

9.5

7.6

8.3

9.1

99

71

7.6

8.3

01

99

7 5 8.0

8.8

9.6

10.5

7.7

8.2

9.0

9.9

8.4

90

9.8

10.8 11.9

BCDEFG

10.8

diameter

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

		2	-
		3	-
KEY		4	-
Conducting metals	AWM I A Internal wiring, not subject	5	-
B Tin-plated copper	to mechanical abuse	7	-
B* Tin-plated copper (ø > 0.38 mm)	AWM I A/B Internal wiring		
C Nickel-plated copper	AWM II A/B External or Internal wiring	2	16
D Silver-plated copper	A wind a very second of mental wing	3	16
E Nickel	NS Not Specified	4	16
F Bare copper	VNS Voltage Not Specified	5	16
F* Bare copper (ø > 0.38 mm)		7	16
G Nickel-plated copper 27 %	: UL approved nominal cross-sections only.	2	
* The diameter is provided for informa	tion purposes as it may vary depending on the stranding of	3	
the core.		4	
Only the average thickness of insulation	n or the sheathing should be taken into account.	5	-
		7	
		,	
		2	14
For this p	product, please contact:	3	14
	•		

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

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In some cases, for production purposes, a separating tape may be added between two successive layers. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wing conditions that do not respect the good practice and the standards in force. For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

5

14

14

14

FT 2209d

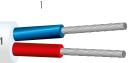
HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET • SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

PLASTHERM® 105 °C PVC insulation PVC sheathing UL and cUL approval



THERMOPLASTIC INSULATED WIRES AND CABLES





UL and cUL approved conductors with PVC insulation.
 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.
- iesi voliage: 10 x kalea voliage

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.

KEY	
Conducting metals	AWMIA Internal wiring, not subject
B Tin-plated copper	to mechanical abuse
B* Tin-plated copper (ø > 0.38 mm)	AWM I A/B Internal wiring
C Nickel-plated copper	AWM II A/B External or Internal wiring
D Silver-plated copper	Awww.ii A/BExternal of Internal withing
E Nickel	NS Not Specified
F Bare copper	VNS Voltage Not Specified
F* Bare copper (ø > 0.38 mm)	vito voluge i tol opecilied
G Nickel-plated copper 27 %	: UL approved nominal cross-sections or

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

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

For this product, please contact:

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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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BCDEFG

BCDEFG

BCDEFG

		Style no.	2517	-Y105	2586	-Y105	2586	6-Y105
		Approval	105 °C	- 300 V	105 °C	- 600 V	105 °C	- 1000 V
				AWM II A/B		AWM II A/B		AWM II A/B
	cro	Nominal ss-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	
No. of cond.	AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(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 26	0.13	1.2	4.4	2.1	6.6	2.1	6.6
7	26	0.13	1.2	4.8 5.1	2.1	7.2 7.8	2.1	7.2 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 4	22 22	0.34	1.6 1.6	5.0 5.4	2.3 2.3	6.5 7.1	2.3 2.3	6.5 7.1
5	22	0.34	1.0	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 5	20 20	0.6	1.8	5.9	2.6	7.8	2.6	7.8
7	20	0.6	1.8 1.8	6.4 6.9	2.6 2.6	8.5 9.3	2.6 2.6	8.5 9.3
2		0.75	1.9	5.3	2.65	(0	2.65	(0
3		0.75	1.9	5.6	2.65	6.8 7.2	2.65	6.8 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 7	18	0.93	2.05	7.1 7.7	2.8 2.8	9.1 9.9	2.8	9.1
2	18	0.93	2.05	5.7	2.8	7.1	2.8	9.9 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 1.5	2.4	7.3 8.0	3.1 3.1	9.0 9.9	3.1	9.0 9.9
7	-	1.5	2.4	8.0	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	8.J 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

FT 2210b

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

PLASTHERM[®] 90 °C **Polyolefin insulation**

UL and cUL approval



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.

AWM I A Internal wiring, not subject to mechanical abuse

KFY

conducting metals

- Tin-plated copper Tin-plated copper (ø > 0.38 mm) Nickel-plated copper В
- B* C
- D Silver-plated copper Nickel
- E

- F Bare copper F* Bare copper (ø > 0.38 mm) G Nickel-plated copper 27 %
- Not Specified NS VNS Voltage Not Specified

AWM II A/BExternal or Internal wiring

AWM I A/B Internal wiring

: UL approved nominal cross-sections only.

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

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

THERMOPLASTIC INSULATED WIRES AND CABLES

2 1 PLASTHERM 90C 600 V 10900 👧 AWM

1 • Bare or tin-plated copper core.

2 • Insulation: polyolefin.

	Style no.	10	900
	Approval		- 600 V A I A/B
	lominal ss-section	Average thickness of	Nominal diameter*
AWG	(mm²)	insulation	(mm)
30	0.05	(mm) 0.38	1.1
28	0.09	0.38	1.1
26	0.13	0.38	1.2
24	0.22	0.38	1.4
22	0.34	0.38	1.5
	0.5	0.38	1.7
20	0.6	0.38	1.75
-	0.75	0.38	1.9
18	0.93	0.38	2.0
-	1	0.76	2.9
16	1.34	0.76	3.0
-	1.5	0.76	3.1
14	-	0.76	3.4
-	2.5	0.76	3.6
12	-	0.76	3.9
-	4	0.76	4.2
10	-	0.76	4.5
-	6	0.76	4.7
8	-	0.76	5.5
-	10	0.76	6.1
6	-	0.76	6.9
-	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
Co	onducting metal	E	3F

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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10000

FT 2211a

FOR THE GENERAL MARKET • SECTION II FLUOROPOLYMERS AND THERMOPLASTICS

PLASTHERM® PHF2 Halogen-free insulation

flame retardant

-40 °C to +105 °C

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

Electrical

- 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

Fle	xible core • class 5	as per IEC 6022	B	IN	SULATED WIRE OR	CABLE
Nominal cross-section (mm²)	oss-section stranding re		um linear e at 20 °C /km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weigh (kg/km)
		PHF2	PHF2E			
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

Nominal thickness

of insulation

(mm)

0.6

0.6

0.7

0.7

08

0.8

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)
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.38	12.1
2.5	1 x 1.77	7.41
4	1 x 2.24	4.61

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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INSULATED WIRE OR CABLE

Approximate

linear weight (kg/km)

9.35

12.2

15.1

21.6

321

48.7

Nominal

diameter

(mm)

2.00

2.20

2.60

2 80

3 10

4.00



THERMOPLASTIC INSULATED WIRES AND CABLES

1 • Flexible bare copper (PHF2) or tin-plated (PHF2E) core - Class 5 as per IEC 60228 2 • Halogen-free, flame-retardant thermoplastic insulation.

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

- Rated voltage: 600/1 000 V.

62

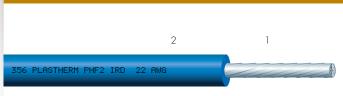
FT 2212a

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

PLASTHERM® PHF2E IRD

Halogen-free, flame-retardant insulation with reduced walls

-40 °C to +105 °C



THERMOPLASTIC INSULATED WIRES AND CABLES

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

Cond	entric tin-pl	ated coppe	r core	INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	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 🗹

Zone Industrielle - F ò3600 Ambert Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10 omerin@omerin.com



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FT 2213d

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

PLASTHERM® PHFLEX

Cable resistant to alternate bending, halogen-free insulation -35 °C to +90 °C

3 2 1 356 PLASTHERM PHFLEX 1.5mm²

1 • Flexible tin-plated copper core - Class 6 as per IEC 60228

2 Halogenfree, flame-retardant thermoplastic insulation.
3 Halogenfree, 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° 1477.0Cl0260/21. • Tests on electric cables under fire conditions as per EN 50305 LAPI n° 1477.1Cl0120/21.

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

Nominal cross-section (mm²)	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:

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FT 2214a

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

PLASTHERM® Style 21209 Polyurethane sheathing

UL and cUL approval



THERMOPLASTIC INSULATED WIRES AND CABLES

Style no.

Approval

style no.

0.13

0.13

0.13

0.13

0.22

0.22

0.22

0.22

0.34

0.34

0.34

0.34

0.34

0.5

0.5 0.5

0.5

0.5

0.6

0.6

0.6

0.6

0.6

0.75

0.75

0.75

0.75

0.75

0.93

0.93

0.93

0.93

0.93

1.34

1.34

1.34

1.34

1.5

1.5

Single conductor

Nominal

(mm²) 0.13

AWG

26

26

26

26

26

24

24

24

24

24

22

22

22

22

20

20

20

20

20

18

18

18

18

18

16

16

16

16

No. of cond.

3

4

5

3

4

5

3

.5

3

3

3

5

3

4

2

5

3

3

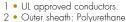
5

3

4

5

4 5



21209-E90

90 °C - 300 V

Style 10125

diameter* of the cond. (mm)

0.75

0.75

0.75

0.75

0.75

0.9

0.9

0.9

0.9

0.9

1.05

1.05

1.05

1.05

1.05

1 2.5

1.25

1.25

1.25

1.25

1.3

1.3

1.3

1.3

1.3

1.4

14

1.4

14

1.4

1.55

1 5 5

1.55

1.55

1.65

1.65

1.65

1.65

1.65

1.9

19

19

1.9

2

AWM I/II A/B

Nominal

diameter* of the cable (mm)

21209-W12

21209-F90

00 V 25 I/II A/B		- 600 V 10900 AWM I/II A/B		1,000 V 10203 AWM I/II A/E		
ninal neter* cable 1m)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)	Nominal diameter* of the cond. (mm)	Nominal diameter* of the cable (mm)		
.1	1.2	4.0	1.5	4.6		
2	1.2	4.1	1.5	4.8		
4	1.2	4.5	1.5	5.2		
6	1.2	4.8	1.5	5.6		
8	1.2	5.2	1.5	6.1		
4						
	1.4	4.4	1.65	4.9		
5	1.4	4.6	1.65	5.1		
7	1.4		1.65	5.5		
C	1.4	5.4	1.65	6.0		
3	1.4	5.8	1.65	6.5		
7	1.5	4.6	1.8	5.2		
3	1.5	4.8	1.8	5.4		
1	1.5	5.2	1.8	5.9		
4	1.5	5.6	1.8	6.4		
7	1.5	6.1	1.8	7.0		
1	1.7	5.0	1.95	5.5		
2	1.7	5.2	1.95	5.8		
5	1.7	5.7	1.95	6.3		
7	1.7	6.2	1.95	6.8		
3	1.7	6.7	1.95	7.4		
2	1.75	5.1	2	5.6		
1	1.75	5.3	2	5.9		
7	1.75	5.8	2	6.4		
	1.75		2			
5	1.75	6.3 6.8	2	7.0 7.6		
4	2.0	5.6	2.1	5.8		
5	2.0	5.9	2.1	6.1		
2	2.0	6.4	2.1	6.6		
4	2.0	7.0	2.1	7.3		
8	2.0	7.6	2.1	7.9		
7	2.1	5.8	2.25	6.1		
7	2.1	6.1	2.25	6.4		
3	2.1	6.6	2.25	7.0		
3	2.1	7.3	2.25	7.7		
2	2.1	7.9	2.25	8.3		
>	2.9	7.4	2.3	6.2		
	2.9	7.8	2.3	6.5		
5	2.9	8.6	2.3	7.1		
)	2.9	9.4	2.3	7.8		
5	2.9	10.3	2.3	8.5		
1	3.0	7.6	2.5	6.6		
5	3.0	8.0	2.5	6.9		
	3.0	8.8	2.5	7.6		
7	3.0	9.7	2.5	8.3		
3	3.0	10.6	2.5	9.1		
5	3.1	7.8	2.55	6.7		
>	3.1	8.2	2.55	7.0		
1	3.1	9.0	2.55	7.7		
)	3.1	10.0	2.55	8.5		
5	3.1	10.9	2.55	9.2		
1	3.4	8.4	2.9	7.4		
4	3.4	8.9	2.9	7.8		
+	3.4	9.8	2.9	8.6		
	3.4	10.8	2.9	9.4		
7						
3	3.4	11.8	2.9	10.3		

BCDF

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.

Internal wiring. not subject to mechanical abuse

KEY

- conducting metals B Tin-plated copper
- Tin-plated copper В*
- | a > 0.38 mm |Nickel-plated copper С
- Silver-plated copper Nickel D
- Е F Bare copper

account

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

* 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

AWMIA

cross-sections only.

For this product, please contact:

AWM I A/B Internal wiring

NS Not Specified VNS Voltage Not Specified

: UL approved nominal

AWM II A/BExternal or Internal wiring

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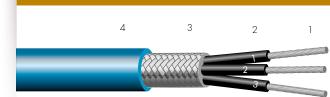


an no	t be fully con	sidered in ou	r studies. In some ca	ises, for produ	ction purposes, o	without prior notice, l separating tape may particularly in the ca	/ be add
w.	omerir	n.com					
		Condu	cting metal	BC	CDF	E	SCDF
	7	14	-	2.25	8.3	3.4	1
	5	14	-	2.25	7.7	3.4	10
	4	14	-	2.25	7.0	3.4	(
	3	14	-	2.25	6.4	3.4	1
	2	14	-	2.25	6.1	3.4	:
	7	-	1.5	2	7.6	3.1	1
	5	-	1.5	2	7.0	3.1	1
	4	-	1.5	2	6.4	3.1	

FT 2215a

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

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



Applications

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

Characteristics 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.

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

1 • Flexible tin-plated copper core

- 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 co	ore • class 5 as pe	r IEC 60228	INSULATED CO	ONDUCTORS	SHEATH	IED CABLE
Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C	Nominal thickness of insulation	Nominal diameter	Nominal diameter	Approximate linear weight
(mm²)		(Ω/km)	(mm)	(mm)	(mm)	(kg/km)
2 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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The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In some cases, for production purposes, a separating tape may be added between two successive layers. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force. For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

PLASTHERM® HP-U 2-conductor flat cable Thin insulation

-20 °C to +80 °C



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

Applications

• Tin-plated copper core.

Options

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

• 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.

ominal anding	Maximum linear resistance at 20°C	Nominal	outer	Approximate
	(Ω/km) (bare copper core)	Dimens (mr a		linear weigh (kg/km)
x 0.50	93.1	1.2	2.7	0.6
x 0.60	64.7	1.4	3.0	0.85
x 0.70	36.0	1.75	4.0	1.2
x 1.13	18.1	2.4	5.1	2.8
	x 0.60 x 0.70	x 0.50 93.1 x 0.60 64.7 x 0.70 36.0	x 0.50 93.1 1.2 x 0.60 64.7 1.4 x 0.70 36.0 1.75	x 0.50 93.1 1.2 2.7 x 0.60 64.7 1.4 3.0 x 0.70 36.0 1.75 4.0

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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PLASTHERM® HP-M 2-conductor flat cable Thin insulation -20 °C to +80 °C



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

Applications

• Tin-plated copper core.

Options

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

• 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		11	ISULATED CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Dime	nal outer ensions nm) b	Approximate linear weigh (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

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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

• Tin-plated copper core.

Options

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

• 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		11	ISULATED CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Dime	al outer nsions 1m) b	Approximate linear weigh (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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FT 2219a

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

PLASTHERM® 41 -40°C to +125°C

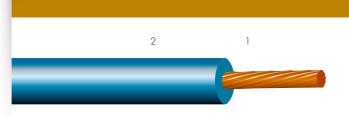
Characteristics

General

Electrical

• Rated voltage: 300 V.

• Test voltage: 3000 V.



THERMOPLASTIC INSULATED WIRES AND CABLES

1 • Flexible bare copper core (other metal in option) - according to IEC 60228.

2 • Special thermoplastic elastomer.

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

Approvals - standards

• Flame resistance: meets UL758 VW-1 test.

Applications

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

Options

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

Nominal cross-section	Nominal stranding	Nominal wall thickness of insulation	Nominal external diameter	Maximum linear resistance at 20 °C
(mm²)		(mm)	(mm)	(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	24×0.20	0.30	1.80	26.0
1	32×0.20	0.35	2.00	19.5
1.5	30×0.25	0.40	2.40	13.3
2.5	50×0.25	0.40	2.90	7.98

For this product, please contact:

OMERIN division principale 🗹

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

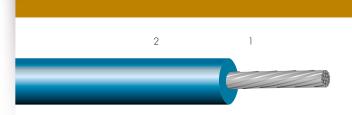


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FT 2220a

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

PLASTHERM® E43 -40°C to +150°C



THERMOPLASTIC INSULATED WIRES AND CABLES

Flexible tin-plated copper core (other metal in option) – according to IEC 60228.
 Special thermoplastic elastomer.

Applications

Industry: industrial wiring in hot atmospheres.
 Household electrical appliances: wiring of household heating appliances.
 Electronics: wiring of measuring devices and systems.

- Continuous operating temperatures: -40°C to +150°C.
 Evaluat resistance to abrevia
 - Excellent resistance to abrasion.

• Rated voltage: 600 V.

• Test voltage: 6000 V.

Good resistance to chemical aggression.

Halogen free.

Characteristics

General

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.

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	24×0.20	0.20	1.60	26.7
1	32×0.20	0.25	1.90	20.0
1.5	30×0.25	0.30	2.20	13.7
2.5	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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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