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**HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS**

omerin
LES CABLES DE L'EXTREME

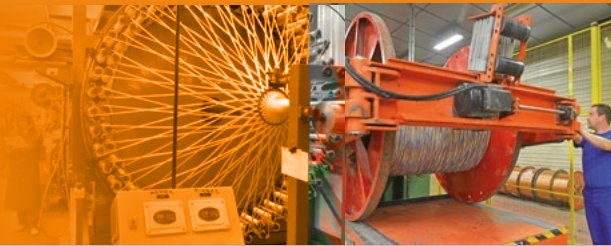


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- *Europe's leading manufacturer of glass-yarn braids*
- *France's leading manufacturer of fire safety cables*

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Our expertise is recognized in over 120 countries.



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

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

List of all the available catalogues:

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION I: CROSS LINKED ELASTOMERS 1

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PACKAGING AND TECHNICAL DATA

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

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

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

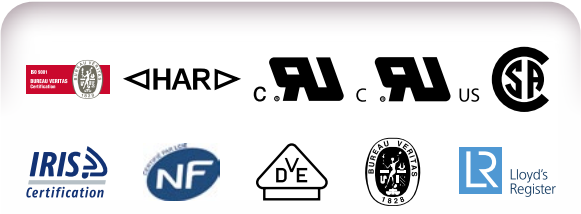
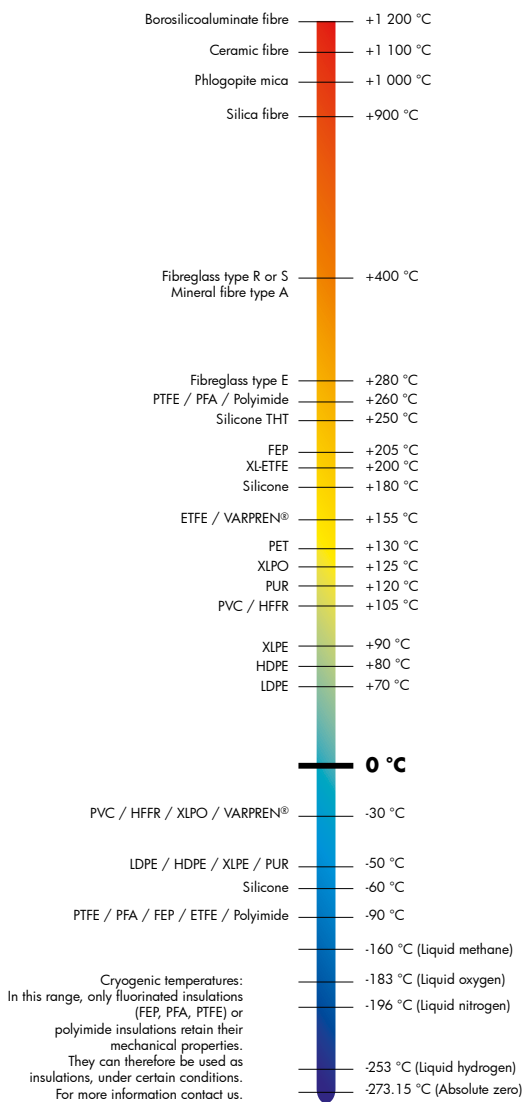
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COUPLIX®	Pyrometry cables (thermocouples, extension, compensation cables)
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TS COM 900®	Telephonic cables for very speed reception
TS LAN®	Copper LAN cables
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TWINPLAST®	Extra flexible cables for battery chargers or jump starters
VARPREN®	Wires and cables with special cross-linked Varpren® insulation
VEROX®	Fiberglass braided seals
VIDEOCOAX®	Analogue and digital video cables



Thermal classification of insulations



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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CS and ECS

-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • Flexible bare copper (ref. CS) or tin-plated (ref. ECS) core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Low smoke density: IEC 61034-2 / EN 61034-2.
- Fire retardant: NF C 32-070 test C1.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Nickel-plated copper core: ref. CNCS.
- Silver-plated copper core: ref. ACS.
- Pure nickel core (not described in IEC 60228): ref. NCS.
 - Outer electrical shielding: > Tin-plated copper braid: ref. CSBE or ECSBE.
 - Outer Flexible armour: > Galvanised steel braid: ref. CSBG or ECSBG.
 - Stainless steel braid: ref. CSBI or ECSBI.
- Stranded bare copper (ref. CS) or tin-plated (ref. ECS) core - class 2 as per IEC 60228: see details of the option below.
- Other nominal cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- | | | |
|------------------|----------------------------------|-------------------------------|
| | S < 2.5 mm² | S ≥ 2.5 mm² |
| • Rated voltage: | 300/500 V | 600/1000 V. |
| • Test voltage: | 2000 V | 3000 V. |

Standard products

- Up to 120 mm²: all colours including two-coloured.
- From 150 mm² to 400 mm²: all colours except two-coloured.

CS and ECS

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.25 *	14 x 0.15	78.6
0.5	16 x 0.20	39.0
0.6 *	19 x 0.20	32.8
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272
95	485 x 0.50	0.206
120	608 x 0.50	0.161
150	756 x 0.50	0.129
185	944 x 0.50	0.106
240	1221 x 0.50	0.0801
300	1525 x 0.50	0.0641
400	2037 x 0.50	0.0486

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	1.9	5.8
0.6	2.1	8.6
0.6	2.2	9.6
0.6	2.4	12.0
0.6	2.5	14.3
0.6	2.8	19.4
0.7	3.4	30.6
0.8	4.2	48.2
0.8	4.8	68.4
1.0	6.4	113
1.2	7.8	171
1.4	9.6	269
1.4	11.0	359
1.6	13.2	514
1.6	14.8	693
1.8	17.4	937
1.8	19.4	1186
2.0	21.4	1459
2.2	23.9	1834
2.2	26.4	2371
2.4	29.9	2990
2.6	34.2	3933

Option • CS and ECS

Stranded core • class 2 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	7 x 0.30	36.0
0.75	7 x 0.37	24.5
1	7 x 0.43	18.1
1.5	7 x 0.52	12.1
2.5	7 x 0.67	7.41
4	7 x 0.85	4.61
6	7 x 1.04	3.08

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.0	8.1
0.6	2.4	12.0
0.6	2.5	14.4
0.6	2.7	19.0
0.7	3.4	30.9
0.8	4.2	48.6
0.8	4.7	67.8

* Nominal cross-sections not described in IEC 60228.

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® RCS and RECS

Solid core
-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • Solid bare copper (ref. RCS) or tin-plated (ref. RECS) core - class 1 as per IEC 60228.
- 2 • Insulation: Silicone rubber.

Approvals - standards

- Halogen-free:
IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions:
IEC 60754-2 / EN 60754-2.
 - Low smoke density:
IEC 61034-2 / EN 61034-2.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Outer electrical shielding:
- > Tin-plated copper braid: ref. RCSBE or RECSBE.
 - Other nominal cross-sections: contact us.
 - Other options: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- All colours including two-coloured.

RCS and RECS

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
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
6*	1 x 2.76	3.08

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.0	8.4
0.6	2.2	11.3
0.6	2.4	14.2
0.6	2.6	19.1
0.7	3.2	30.4
0.8	3.9	47.2
0.8	4.4	67.4

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

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® H05S-K and H05S-U

USE <HAR> Approval

-60 °C to +180 °C

<HAR>

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



Approvals - standards

- USE <HAR> Approval as per standard NF EN 50525-2-41.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-41).

Standard products

- All colours including two-coloured.

- 1 • Flexible bare copper, tin-plated, nickel-plated or silver-plated core - class 5 as per IEC 60228 / EN 60228.
- 2 • Solid bare copper or tin-plated core - class 1 as per IEC 60228 / EN 60228.
- 3 • Insulation: Silicone rubber - type EI2 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.

H05S-K

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
				min.	max.	
0.5	16 x 0.20	39.0	0.8	2.4	3.1	10.8
0.75	24 x 0.20	26.0	0.8	2.6	3.2	14.0
1	32 x 0.20	19.5	0.8	2.7	3.4	16.8
1.5	30 x 0.25	13.3	0.9	3.2	4.0	23.7
2.5	50 x 0.25	7.98	1.0	3.8	4.7	35.7

INSULATED WIRE

H05S-U

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
				min.	max.	
0.5	1 x 0.80	36.0	0.8	2.3	2.9	10.4
0.75	1 x 0.98	24.5	0.8	2.4	3.1	13.5
1	1 x 1.13	18.1	0.8	2.6	3.2	16.3
1.5	1 x 1.38	12.1	0.9	3.0	3.8	23.1
2.5	1 x 1.77	7.41	1.0	3.6	4.5	35.2

INSULATED WIRE

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SILICABLE® H05SS-K

Double insulating layer

USE <HAR> Approval

-60 °C to +180 °C

<HAR>

Approvals - standards

- USE <HAR> Approval as per standard NF EN 50525-2-41.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for class 2 household electrical heating appliances (convectors, etc.).
 - Class 2 lighting equipment.
 - Cabling for all other household electrical appliances meeting standard NF EN 60335-1.
- Cabling for rotating machines (class H).
 - Industrial cabling in hot atmospheres.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-41).

Standard products

- Standard insulation colour: white.
- Standard outer sheath colours: all colours including two-coloured.



- 1 • Flexible bare copper, tin-plated, nickel-plated or silver-plated core - class 5 as per IEC 60228 / EN 60228.
- 2 • Insulation: Silicone rubber - type EI2 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.
- 3 • Outer sheath: Silicone rubber - type EM9 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-2-1.

H05SS-K

Flexible core • class 5 as per IEC 60228			INSULATED WIRE				
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness (mm)		Nominal diameter (mm)		Approximate linear weight (kg/km)
			insulation	sheath	min.	max.	
0.75	24 x 0.20	26.0	0.6	0.8	3.7	4.7	24.9
1	32 x 0.20	19.5	0.6	0.9	4.1	5.1	30.7
1.5	30 x 0.25	13.3	0.8	1.0	4.9	6.1	45.3
2.5	50 x 0.25	7.98	0.9	1.1	5.7	7.1	66.8

For this product, please contact:

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE®
SIF/SIR/SIE
N2GFAF/N2GFA
VDE approval
-60 °C to +180 °C



Approvals - standards

- SIF, SIR and SIE: VDE approved as per Licence no. 121112.
- N2GFAF AND N2GFA: VDE approved as per Licence no. 101969.
- Halogen-free: IEC 60754-1 / EN 60754-1.

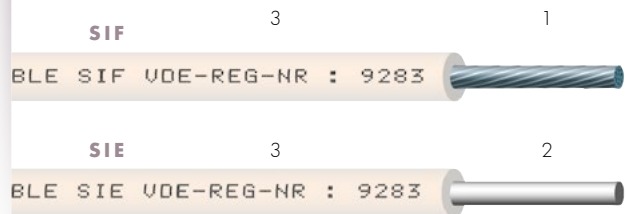
Applications

- Cabling for household electrical heating appliances.
 - Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Nickel-plated copper core: contact us.
- Insulation: Very high temperature silicone rubber (+230 °C in continuous operation) - ref. SIF-THT.
 - Insulation: Silicone rubber with high mechanical properties - ref. SIF-HRD.
 - Other nominal stranding: contact us.

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



- 1 • Flexible bare copper or tin-plated core - class 5 as per IEC 60228 / DIN VDE 0295.
- 2 • Solid bare copper or tin-plated core - class 1 as per IEC 60228 / DIN VDE 0295.
- 3 • Insulation: Silicone rubber - type EI2 - DIN EN 50363-1.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- All colours including two-coloured.

SIF

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding Class 5	Max. linear resistance at 20 °C (Ω/km) (tin-plated copper core)	INSULATED WIRE		
			Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25 *	14 x 0.15	82.2	0.6	1.9	5.9
0.5	16 x 0.20	40.1	0.6	2.1	8.6
0.75 (1)	24 x 0.20	26.7	0.6	2.4	12.0
1	32 x 0.20	20.0	0.6	2.5	14.3
1.5	30 x 0.25	13.7	0.7	2.8	19.4
2.5	50 x 0.25	8.21	0.8	3.4	30.6

SIR

Stranded core • class 2 as per IEC 60228

	Class 2		Alternative			
0.25	7 x 0.22	-	81.2	0.6	1.9	5.9
0.5	7 x 0.30	-	36.7	0.6	2.1	8.6
0.75	7 x 0.37	11 x 0.30	24.8	0.6	2.4	12.0
1	7 x 0.43	14 x 0.30	18.2	0.6	2.5	14.4
1.5	7 x 0.52	21 x 0.30	12.2	0.7	3.0	21.0
2.5	7 x 0.67	35 x 0.30	7.56	0.8	3.6	32.5

SIE

Solid core • class 1 as per IEC 60228

0.25 *	1 x 0.52	76.0	0.6	1.8	5.3
0.5	1 x 0.80	36.7	0.6	2.0	8.4
0.75 (2)	1 x 0.98	24.8	0.6	2.3	11.8
1	1 x 1.13	18.2	0.6	2.5	14.8
1.5	1 x 1.38	12.2	0.7	2.8	20.3
2.5	1 x 1.77	7.56	0.8	3.4	31.9

* Nominal cross-section not included in IEC 60228.

(1) Standardised VDE ref.: N2GFAF

(2) Standardised VDE ref.: N2GFA

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® SIR-IDC

For IDC connectors
VDE approval

-60 °C to +180 °C



Approvals - standards

- VDE approval as per licence no. 121112.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- A range of cables specially developed for use with IDC connectors:

Stocko ranges RFK 1 / RFK 2 / RAST 5 / ECO-DOMO only (Test report available on request).

Options

- Other nominal stranding: contact us.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • Stranded bare copper or tin-plated core.
- 2 • Insulation: Silicone rubber.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- All colours including two-coloured.

SIR-IDC

Stranded core			INSULATED WIRE			Connector
Nominal cross-section (mm ²)	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)	
0.22*	7 x 0.20	92.5	0.45	1.5	3.7	RFK 1 / RFK 2
0.25	7 x 0.22	81.2	0.45	1.5	4.1	RFK 1 / RFK 2
0.34	7 x 0.25	59.2	0.45	1.65	5.1	ECO-DOMO / RAST 5
0.5	7 x 0.30	36.7	0.6	2.1	7.8	ECO-DOMO / RAST 5
0.75	7 x 0.37	24.8	0.6	2.3	10.6	ECO-DOMO / RAST 5
1	7 x 0.43	18.2	0.6	2.5	13.4	ECO-DOMO / RAST 5
1.5	7 x 0.52	12.2	0.7	2.8	18.4	ECO-DOMO / RAST 5

* Nominal cross-section not included in VDE approval.

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CS-ES and ECS-ES

Extra-flexible core
-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



- Extra-flexible bare copper (ref. CS-ES) or tin-plated (ref. ECS-ES) core - class 6 as per IEC 60228.
- Insulation: Silicone rubber.

Approvals - standards

- Halogen-free:
IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions:
IEC 60754-2 / EN 60754-2.
 - Low smoke density:
IEC 61034-2 / EN 61034-2.
 - Fire retardant:
NF C 32-070 test C1.

Applications

- Cabling for alternate bending use, cabling requiring a low bending radius.
- Cabling for household electrical heating appliances or industrial appliances requiring the use of highly flexible cables.
- Measuring cables.

Options

- Outer electrical shielding:
> Tin-plated copper braid: ref. CSBE-ES or ECSBE-ES.
- Outer Flexible armour:
> Galvanised steel braid:
ref. CSBG-ES or ECSBG-ES.
> Stainless steel braid:
ref. CSBI-ES or ECSBI-ES.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Excellent alternate bending strength.

Electrical

- | | | |
|------------------|----------------------------------|-------------------------------|
| | S < 2.5 mm² | S ≥ 2.5 mm² |
| • Rated voltage: | 300/500 V | 600/1000 V. |
| • Test voltage: | 2000 V | 3000 V. |

Standard products

- Up to 120 mm²: all colours including two-coloured.
- From 150 mm² to 240 mm²: all colours except two-coloured.

CS-ES and ECS-ES

Extra-flexible core • class 6 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Max. linear resistance at 20 °C
		(Ω/km) (bare copper core)
0.5	260 x 0.05 or 130 x 0.07	39.0
0.75	390 x 0.05 or 200 x 0.07	26.0
1	520 x 0.05 or 260 x 0.07	19.5
1.5	390 x 0.07 or 190 x 0.10	13.3
2.5	650 x 0.07 or 320 x 0.10	7.98
4	1008 x 0.07 or 224 x 0.15	4.95
6	342 x 0.15 or 192 x 0.20	3.30
10	324 x 0.20	1.91
16	512 x 0.20	1.21
25	796 x 0.20	0.780
35	1120 x 0.20	0.554
50	1600 x 0.20	0.386
70	2240 x 0.20	0.272
95	3025 x 0.20	0.206
120	3820 x 0.20	0.161
150	4775 x 0.20	0.129
185	5888 x 0.20	0.106
240	7639 x 0.20	0.0801

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	8.6
0.6	2.4	11.8
0.6	2.5	14.0
0.6	2.8	19.1
0.7	3.4	30.3
0.8	4.2	47.0
0.8	5.0	69.7
1.0	6.4	115
1.2	7.8	180
1.4	9.6	275
1.4	11.0	377
1.6	13.2	546
1.6	14.8	731
1.8	17.4	980
1.8	19.4	1312
2.0	21.4	1562
2.2	23.9	1899
2.2	26.4	2496

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CSC and ECSC

Double insulating layer

-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



- Flexible bare copper (ref. CSC) or tin-plated (ref. ECSC) core - class 5 as per IEC 60228.
- Insulation: Silicone rubber.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Low smoke density: IEC 61034-2 / EN 61034-2.
 - Fire retardant: NF C 32-070 test C1.
- Safety of household and similar electrical appliances: NF EN 60335-1.

Applications

- Class 2 lighting equipment and convectors or any other household electrical appliance complying with standard NF EN 60335-1.
- Cabling for rotating machines (class H).

Options

- Nickel-plated copper core: ref. CNCSC.
- Silver-plated copper core: ref. ACSC.
- Pure nickel core (not described in IEC 60228): ref. NCSC.
 - Outer electrical shielding: > Tin-plated copper braid: ref. CSCBE or ECSCBE.
 - Outer Flexible armour: > Galvanised steel braid: ref. CSCBG or ECSCBG.
 - Stainless steel braid: ref. CSCBI or ECSCBI.
 - Stranded bare copper (ref. CSC) or tin-plated (ref. ECSC) core - class 2 as per IEC 60228: see details of the option below.
 - Solid bare copper (ref. RCSC) or tin-plated (ref. RECSC) core - class 1 as per IEC 60228: contact us.
- Other nominal cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 3750 V.

Standard products

- Inner insulating layer: white.
- Outer insulating layer: all colours including two-coloured.

CSC and ECSC

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386

INSULATED WIRE OR CABLE

Total nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.7	2.4	10.2
0.7	2.6	13.1
0.7	2.8	16.1
0.8	3.2	22.2
0.9	3.8	33.9
1.0	4.6	52.3
1.2	5.6	78.0
1.4	7.2	128
1.6	8.6	192
2.0	10.8	301
2.0	12.2	406
2.2	14.9	592

Option • CSC and ECSC

Stranded core • class 2 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	7 x 0.30	36.0
0.75	7 x 0.37	24.5
1	7 x 0.43	18.1
1.5	7 x 0.52	12.1
2.5	7 x 0.67	7.41
4	7 x 0.85	4.61
6	7 x 1.04	3.08

INSULATED WIRE

Total nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.7	2.3	9.6
0.7	2.5	12.6
0.7	2.7	15.6
0.8	3.2	22.4
0.9	3.8	34.2
1.0	4.6	52.7
1.2	5.5	77.2

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LES CABLES DE L'EXTREME

SILICABLE® ECSC-VDE and CNCSC-VDE

Double insulating layer
VDE approval
-60 °C to +180 °C



Approvals - standards

- VDE approval: Licence No. 119365.
 - Halogen-free: IEC 60754-1 / EN 60754-1.
- Safety of household and similar electrical appliances: NF EN 60335-1.

Applications

- Class 2 lighting equipment and convectors or any other household electrical appliance complying with standard NF EN 60335-1.
- Cabling for rotating machines (class H).

Options

- Solid tin-plated copper core (ref. RECSC-VDE) – class 1 as per IEC 60228:
 - > See details of the option below.
 - > Option not available in nickel-plated copper.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- Flexible tin-plated (ref. ECSC-VDE) or nickel-plated (ref. CNCSC-VDE) copper core - class 5 as per IEC 60228 / DIN VDE 0295.
- Insulation: Silicone rubber - type EI2 - DIN EN 50363-1.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/300 V.
- Test voltage: 3750 V.

Standard products

- Inner insulating layer: white.
- Outer insulating layer: all colours including two-coloured.

ECSC-VDE and CNCSC-VDE

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	INSULATED WIRE		Nominal diameter (mm)	Approximate linear weight (kg/km)
			Nominal thickness of insulation (mm) on the inner layer	Nominal thickness of insulation (mm) on the outer layer		
0.5	16 x 0.20	40.1	0.6	0.6	3.3	14.7
0.75	24 x 0.20	26.7	0.6	0.6	3.6	18.6
1	32 x 0.20	20.0	0.6	0.6	3.7	21.3
1.5	30 x 0.25	13.7	0.7	0.7	4.4	30.4
2.5	50 x 0.25	8.21	0.8	0.8	5.2	45.5

Option • RECSC-VDE

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)	INSULATED WIRE		Nominal diameter (mm)	Approximate linear weight (kg/km)
			Nominal thickness of insulation (mm) on the inner layer	Nominal thickness of insulation (mm) on the outer layer		
0.5	1 x 0.80	36.7	0.6	0.6	3.2	14.2
0.75	1 x 0.98	24.8	0.6	0.6	3.4	17.5
1	1 x 1.13	18.2	0.6	0.6	3.6	20.9
1.5	1 x 1.38	12.2	0.7	0.7	4.2	29.4
2.5	1 x 1.77	7.56	0.8	0.8	5.0	44.4

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SILICABLE® CS-THT and ECS-THT

Very high temperature insulation
-60 °C to +250 °C



Approvals - standards

- Halogen-free:
IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H):
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Nickel-plated copper core: ref. CNCS-THT.
- Silver-plated copper core: ref. ACS-THT.
- Pure nickel core (not described in IEC 60228):
ref. NCS-THT.
 - Outer electrical shielding:
 - > Tin-plated copper braid: ref. CSBE-THT or ECSBE-THT.
- Stranded bare copper (ref. CS-THT) or tin-plated (ref. ECS-THT) core - class 2 as per IEC 60228:
See details of the option below.
 - Double insulating layers:
ref. CSC-THT or ECSC-THT.
- Other nominal cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +250 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- All colours including two-coloured.

CS-THT and ECS-THT

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.25 *	14 x 0.15	78.6
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	1.9	5.8
0.6	2.1	7.8
0.6	2.4	10.9
0.6	2.5	13.2
0.6	2.8	18.2
0.7	3.4	28.9
0.8	4.2	45.7
0.8	4.8	65.3

Option • CS-THT and ECS-THT

Stranded core • class 2 as per IEC 60228

0.5	7 x 0.30	36.0
0.75	7 x 0.37	24.5
1	7 x 0.43	18.1
1.5	7 x 0.52	12.1
2.5	7 x 0.67	7.41
4	7 x 0.85	4.61
6	7 x 1.04	3.08

INSULATED WIRE

0.6	2.1	7.8
0.6	2.4	10.9
0.6	2.5	13.4
0.6	2.8	18.3
0.7	3.4	29.1
0.8	4.2	46.0
0.8	4.8	65.7

* Nominal cross-section not included in IEC 60228.

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® RCS-THT and RECS-THT

Solid core

Very high temperature insulation

-60 °C to +250 °C



- 1 • Solid bare copper (ref. RCS-THT) or tin-plated (ref. RECS-THT) core - class 1 as per IEC 60228.
- 2 • Insulation: Very high temperature silicone rubber.

Approvals - standards

- Halogen-free:
IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Outer electrical shielding:
> Tin-plated copper braid: ref. RCSBE-THT or RECSBE-THT.
- Other nominal cross-sections: contact us.
- Other options: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +250 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- All colours including two-coloured.

RCS-THT and RECS-THT

Solid core • class 1 as per IEC 60228			INSULATED WIRE		
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	1 x 0.80	36.0	0.6	2.0	7.6
0.75	1 x 0.98	24.5	0.6	2.2	10.4
1	1 x 1.13	18.1	0.6	2.4	13.1
1.5	1 x 1.38	12.1	0.6	2.6	17.9
2.5	1 x 1.77	7.41	0.7	3.2	28.7
4*	1 x 2.24	4.61	0.8	3.9	44.8
6*	1 x 2.76	3.08	0.8	4.4	64.6

* Nominal cross-sections not available with the ref. RECS-THT.

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omerin
LES CABLES DE L'EXTREME

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® 105 °C

Silicone insulation
UL and cUL approval



SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



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

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.
- "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances, rotating machines, lighting.
- Industrial cabling in hot atmospheres.

Options

- Other nominal cross-sections: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +105 °C.
- Good resistance to thermal shock and UV.

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.

Style no.		3232		3243		3171	
Approval		105 °C - 300 V		105 °C - 300 V		105 °C - 600 V	
Nominal cross-section		Avg thick-ness of insulation	Nominal diameter*	Avg thick-ness of insulation	Nominal diameter*	Avg thick-ness of insulation	Nominal diameter*
AWG	(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
26	0.13	0.38	1.2	0.38	1.3	0.76	2.0
24	0.22	0.38	1.4	0.38	1.5	0.76	2.2
22	0.34	0.38	1.6	0.38	1.6	0.76	2.4
-	0.5	0.38	1.7	0.38	1.8	0.76	2.5
20	0.6	0.38	1.8	0.38	1.9	0.76	2.6
-	0.75	0.38	1.9	0.38	2.0	0.76	2.7
18	0.93	0.38	2.0	0.38	2.1	0.76	2.8
-	1	0.38	2.1	0.38	2.2	0.76	2.9
16	1.34	0.38	2.3	0.38	2.4	0.76	3.1
-	1.5	0.38	2.4	0.38	2.5	0.76	3.1
14	-	-	-	-	-	0.76	3.6
-	2.5	-	-	-	-	0.76	3.8
12	-	-	-	-	-	0.76	4.1
-	4	-	-	-	-	0.76	4.4
Conducting metal		B		BF (Ø 0.05 mm)		BF (Ø 0.05 mm)	

KEY

Conducting metals

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

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

- NS Not Specified
- VNS Voltage Not Specified

■ UL approved nominal cross-sections only.

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

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® 150°C

Silicone insulation
UL and cUL approval



Characteristics General

- Continuous operating temperatures: -60°C to +150°C.
- Good resistance to thermal shock and UV.

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 approval as per standard UL 758 - File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 - File no.: E101965 (LL84986).
- "Horizontal flame test" as per UL approval.
- "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances, rotating machines, lighting.
- Industrial cabling in hot atmospheres.

Options

- Other nominal cross-sections: contact us.
 - Vertical flame test VW-1 for style no.3132 and 3134: contact us.
- Other style nos. available: style 3113, 3136, 3140, 3141, 3142, 3754.

2

1



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

Style no.	3099		3132		3123		3133	
	Approval 150 °C - 300 V (cUL 600 V)		Approval 150 °C - 300 V (cUL 600 V)		Approval 150 °C - 600 V		Approval 150 °C - 600 V	
Nominal cross-section	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
26	0.13	-	0.38	1.2	0.76	2.0	0.76	2.0
24	0.22	-	0.38	1.4	0.76	2.1	0.76	2.1
22	0.34	-	0.38	1.55	0.76	2.35	0.76	2.35
-	0.5	-	0.38	1.7	0.76	2.5	0.76	2.5
20	0.6	0.76	0.38	1.75	0.76	2.5	0.76	2.5
-	0.75	0.76	0.38	1.9	0.76	2.7	0.76	2.7
18	0.93	0.76	0.38	2.0	0.76	2.8	0.76	2.7
-	1	0.76	0.38	2.1	0.76	2.8	0.76	2.8
16	1.34	0.76	0.38	2.3	0.76	3.0	0.76	3.1
-	1.5	0.76	0.38	2.4	0.76	3.2	0.76	3.2
14	-	-	0.38	2.65	-	-	-	-
-	2.5	-	0.38	2.8	-	-	-	-
12	-	-	0.38	3.2	-	-	-	-
-	4	-	0.38	3.4	-	-	-	-
10	-	-	0.38	3.8	-	-	-	-
-	6	-	0.38	3.9	-	-	-	-
8	-	-	0.38	4.6	-	-	-	-
-	10	-	0.38	5.2	-	-	-	-
6	-	-	0.38	6.3	-	-	-	-
-	16	-	0.38	6.3	-	-	-	-
4	-	-	0.38	7.3	-	-	-	-
-	25	-	0.38	7.8	-	-	-	-
2	35	-	0.38	8.9	-	-	-	-
1	-	-	0.38	10.1	-	-	-	-
-	50	-	0.38	10.5	-	-	-	-
1/0	-	-	0.38	11.2	-	-	-	-
2/0	70	-	0.38	12.3	-	-	-	-
3/0	-	-	0.38	13.9	-	-	-	-
-	95	-	0.38	14.1	-	-	-	-
4/0	-	-	0.38	15.5	-	-	-	-
-	120	-	0.38	15.8	-	-	-	-
250MCM	-	-	-	-	-	-	-	-
-	150	-	-	-	-	-	-	-
300MCM	-	-	-	-	-	-	-	-
350MCM	185	-	-	-	-	-	-	-
400MCM	-	-	-	-	-	-	-	-
-	240	-	-	-	-	-	-	-
500MCM	-	-	-	-	-	-	-	-
-	300	-	-	-	-	-	-	-
600MCM	-	-	-	-	-	-	-	-
700MCM	-	-	-	-	-	-	-	-
750MCM	400	-	-	-	-	-	-	-
Conducting metal	BCD		BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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Style no.		3134		3137		3138		3529		3536		3580	
Approval		150 °C – 600 V		150 °C – 600 V		150 °C – 600 V		150 °C – 600 V		150 °C – 600 V		150 °C – 1000 V	
Nominal cross-section		Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*
AWG	(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
26	0.13	-	-	1.14	2.8	-	-	0.76	2.0	-	-	1.14	2.8
24	0.22	-	-	1.14	2.9	-	-	0.76	2.1	-	-	1.14	2.9
22	0.34	-	-	1.14	3.05	-	-	0.76	2.35	-	-	1.14	3.05
-	0.5	-	-	1.14	3.2	-	-	0.76	2.5	0.76	2.5	1.14	3.2
20	0.6	-	-	1.14	3.4	-	-	0.76	2.5	0.76	2.5	1.14	3.4
-	0.75	-	-	-	-	-	-	0.76	2.7	0.76	2.7	1.14	3.5
18	0.93	0.76	2.7	-	-	1.14	3.6	0.76	2.8	0.76	2.8	1.14	3.6
-	1	0.76	2.9	-	-	1.14	3.7	0.76	2.9	0.76	2.9	1.14	3.7
16	1.34	0.76	3.1	-	-	1.14	3.8	0.76	3.1	0.76	3.1	1.14	3.8
-	1.5	0.76	3.2	-	-	1.14	4.0	0.76	3.2	0.76	3.2	1.14	4.0
14	-	0.76	3.6	-	-	1.14	4.3	0.76	3.5	0.76	3.5	1.14	4.3
-	2.5	0.76	3.6	-	-	1.14	4.4	0.76	3.6	0.76	3.6	1.14	4.4
12	-	0.76	4.0	-	-	1.14	4.6	0.76	4.0	0.76	4.0	1.14	4.6
-	4	0.76	4.2	-	-	1.14	4.9	0.76	4.2	0.76	4.2	1.14	4.9
10	-	-	-	-	-	1.14	5.3	1.14	5.3	1.14	5.3	1.14	5.3
-	6	-	-	-	-	1.14	5.6	1.14	5.6	1.14	5.5	1.14	5.6
8	-	-	-	-	-	-	-	1.52	6.8	1.14	6.3	1.52	6.8
-	10	-	-	-	-	-	-	1.52	7.5	1.52	7.6	1.52	7.4
6	-	-	-	-	-	-	-	1.52	8.4	1.52	8.4	1.52	8.4
-	16	-	-	-	-	-	-	1.52	9.0	1.52	9.0	1.52	9.0
4	-	-	-	-	-	-	-	1.52	10.2	1.52	10.2	1.52	10.2
-	25	-	-	-	-	-	-	1.52	10.6	1.52	10.6	1.52	10.6
2	35	-	-	-	-	-	-	1.52	11.4	1.52	11.4	1.52	11.4
1	-	-	-	-	-	-	-	2.03	13.9	2.03	13.9	2.03	13.9
-	50	-	-	-	-	-	-	2.03	14.6	2.03	14.6	2.03	14.6
1/0	-	-	-	-	-	-	-	2.03	15.0	2.03	15.0	2.03	15.0
2/0	70	-	-	-	-	-	-	2.03	15.9	2.03	15.9	2.03	15.9
3/0	-	-	-	-	-	-	-	2.03	17.6	2.03	17.6	2.03	17.6
-	95	-	-	-	-	-	-	2.03	17.8	2.03	17.8	2.03	17.8
4/0	-	-	-	-	-	-	-	2.03	19.1	2.41	19.9	2.03	19.1
-	120	-	-	-	-	-	-	2.03	19.5	2.41	20.3	2.03	19.5
250MCM	-	-	-	-	-	-	-	2.41	21.1	2.41	21.1	2.41	21.1
-	150	-	-	-	-	-	-	2.41	21.8	2.41	21.8	2.41	21.8
300MCM	-	-	-	-	-	-	-	2.41	23.0	2.41	23.0	2.41	23.0
350MCM	185	-	-	-	-	-	-	2.41	24.0	2.41	24.0	2.41	24.0
400MCM	-	-	-	-	-	-	-	2.41	25.0	2.41	25.0	2.41	25.0
-	240	-	-	-	-	-	-	2.41	26.3	2.41	26.3	2.41	26.3
500MCM	-	-	-	-	-	-	-	2.41	27.6	-	-	2.41	27.6
-	300	-	-	-	-	-	-	2.79	30.1	-	-	-	-
600MCM	-	-	-	-	-	-	-	2.79	30.7	-	-	-	-
700MCM	-	-	-	-	-	-	-	2.79	32.6	-	-	-	-
750MCM	400	-	-	-	-	-	-	2.79	33.6	-	-	-	-
Conducting metal		BCDEG		BCDEG		BCDEG		BCDEFG		BCDEFG		BCDEFG	

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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SILICABLE® 200 °C

Silicone insulation

UL and cUL approval



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

Characteristics

General

- Continuous operating temperatures: -60 °C to +200 °C.
- Good resistance to thermal shock and UV.

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 approval as per standard UL 758 - File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 - File no.: E101965 (L84986).
- "Horizontal flame test" as per UL approval.
- "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances, rotating machines, lighting.
- Industrial cabling in hot atmospheres.

Options

- Other nominal cross-sections: contact us.
- Vertical flame test VW-1 for style nos. 3512 and 3135: contact us.

For this product, please contact:

OMERIN division principale ✓

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Style no.	Approval		200 °C - 300 V		200 °C - 600 V		200 °C - 600 V		200 °C - 600 V	
	Nominal cross-section	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	
26	0.13	0.38	1.2	0.76	2.0	1.14	2.8	-	-	
24	0.22	0.38	1.4	0.76	2.1	1.14	2.9	-	-	
22	0.34	0.38	1.6	0.76	2.4	1.14	3.05	-	-	
-	0.5	0.38	1.7	0.76	2.5	1.14	3.2	-	-	
20	0.6	0.38	1.8	0.76	2.6	1.14	3.4	-	-	
-	0.75	0.38	1.9	0.76	2.65	1.14	3.5	-	-	
18	0.93	0.38	2.0	0.76	2.7	1.14	3.6	1.58	4.4	
-	1	0.38	2.1	0.76	2.8	1.14	3.7	1.58	4.5	
16	1.34	0.38	2.3	0.76	3.05	1.14	3.8	1.58	4.7	
-	1.5	0.38	2.4	0.76	3.2	1.14	4.0	1.58	4.8	
14	-	0.38	2.7	0.76	3.6	1.14	4.3	1.58	5.1	
-	2.5	0.38	2.9	0.76	3.6	1.14	4.4	1.58	5.2	
12	-	0.38	3.2	0.76	4.0	1.14	4.6	1.58	5.6	
-	4	0.38	3.4	0.76	4.4	1.14	4.9	1.58	5.8	
10	-	0.38	4.0	-	-	-	-	-	-	
-	6	0.38	4.2	-	-	-	-	-	-	
8	-	-	-	-	-	-	-	-	-	
-	10	-	-	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	-	-	
-	16	-	-	-	-	-	-	-	-	
4	-	-	-	-	-	-	-	-	-	
-	25	-	-	-	-	-	-	-	-	
2	35	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	
-	50	-	-	-	-	-	-	-	-	
1/0	-	-	-	-	-	-	-	-	-	
2/0	70	-	-	-	-	-	-	-	-	
3/0	-	-	-	-	-	-	-	-	-	
-	95	-	-	-	-	-	-	-	-	
4/0	-	-	-	-	-	-	-	-	-	
-	120	-	-	-	-	-	-	-	-	
250MCM	-	-	-	-	-	-	-	-	-	
-	150	-	-	-	-	-	-	-	-	
300MCM	-	-	-	-	-	-	-	-	-	
350MCM	185	-	-	-	-	-	-	-	-	
400MCM	-	-	-	-	-	-	-	-	-	
-	240	-	-	-	-	-	-	-	-	
500MCM	-	-	-	-	-	-	-	-	-	
-	300	-	-	-	-	-	-	-	-	
600MCM	-	-	-	-	-	-	-	-	-	
700MCM	-	-	-	-	-	-	-	-	-	
750MCM	400	-	-	-	-	-	-	-	-	
Conducting metal	B*CDEG			B*CDEF*G			B*CDEG		B*CDEG	

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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Style no.		3268		3512**		3530		3755		30096		3572		3644	
Approval		200 °C – 600 V		200 °C – 600 V		200 °C – 600 V		200 °C – 600 V		200 °C – 750 V		200 °C – 1000 V (cUL 600 V)		200 °C – 1000 V (cUL 600 V)	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm ²)														
26	0.13	-	-	-	-	0.76	2.0	0.76	2.0	-	-	0.76	2.0	0.76	2.0
24	0.22	-	-	-	-	0.76	2.1	0.76	2.1	-	-	0.76	2.1	0.76	2.1
22	0.34	-	-	-	-	0.76	2.4	0.76	2.4	-	-	0.76	2.4	0.76	2.4
-	0.5	-	-	0.76	2.5	0.76	2.5	0.76	2.5	0.76	2.5	0.76	2.5	0.76	2.5
20	0.6	-	-	0.76	2.6	0.76	2.6	0.76	2.6	0.76	2.6	0.76	2.6	0.76	2.6
-	0.75	-	-	0.76	2.65	0.76	2.65	0.76	2.65	0.76	2.65	0.76	2.65	0.76	2.65
18	0.93	0.76	2.7	0.76	2.7	0.76	2.7	0.76	2.7	0.76	2.7	0.76	2.7	0.76	2.7
-	1	0.76	2.8	0.76	2.8	0.76	2.8	0.76	2.8	0.76	2.8	0.76	2.8	0.76	2.8
16	1.34	0.76	3.05	0.76	3.05	0.76	3.05	0.76	3.05	0.76	3.05	0.76	3.05	0.76	3.05
-	1.5	0.76	3.2	0.76	3.1	0.76	3.2	0.76	3.2	0.76	3.1	0.76	3.2	0.76	3.2
14	-	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.5	0.76	3.6
-	2.5	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.6	0.76	3.6
12	-	0.76	4.0	0.76	4.0	0.76	4.0	0.76	4.0	0.76	4.0	0.76	4.0	0.76	4.0
-	4	0.76	4.4	0.76	4.4	0.76	4.4	0.76	4.4	0.76	4.4	0.76	4.4	0.76	4.4
10	-	-	-	1.14	5.3	1.14	5.3	0.76	4.6	1.14	5.3	1.14	5.3	0.76	4.6
-	6	-	-	1.14	5.5	1.14	5.5	0.76	4.8	1.14	5.5	1.14	5.5	0.76	4.8
8	-	-	-	1.14	6.1	1.52	6.8	-	-	1.14	6.1	1.52	7.0	1.14	6.1
-	10	-	-	1.52	7.4	1.52	7.4	-	-	1.52	7.4	1.52	7.4	1.52	7.4
6	-	-	-	1.52	8.3	1.52	8.3	-	-	1.52	8.3	1.52	8.3	1.52	8.3
-	16	-	-	1.52	8.9	1.52	8.6	-	-	1.52	8.9	1.52	8.6	1.52	8.9
4	-	-	-	1.52	9.8	1.52	9.8	-	-	1.52	9.8	1.52	9.8	1.52	9.8
-	25	-	-	1.52	10.2	1.52	10.2	-	-	1.52	10.2	1.52	10.2	1.52	10.2
2	35	-	-	1.52	11.0	1.52	11.0	-	-	1.52	11.0	1.52	11.0	1.52	11.0
1	-	-	-	2.03	13.5	2.03	13.5	-	-	2.03	13.5	-	-	2.03	13.5
-	50	-	-	2.03	14.0	2.03	14.0	-	-	2.03	14.0	-	-	2.03	14.0
1/0	-	-	-	2.03	14.6	2.03	14.6	-	-	2.03	14.6	-	-	2.03	14.6
2/0	70	-	-	2.03	16.0	2.03	16.0	-	-	2.03	16.0	-	-	2.03	16.0
3/0	-	-	-	2.03	17.4	2.03	17.4	-	-	2.03	17.4	-	-	2.03	17.4
-	95	-	-	2.03	18.0	2.03	18.0	-	-	2.03	18.0	-	-	2.03	18.0
4/0	-	-	-	2.41	20.0	2.03	19.2	-	-	2.41	20.0	-	-	2.03	19.2
-	120	-	-	2.41	20.8	2.03	20.0	-	-	2.41	20.8	-	-	2.03	20.0
250MCM	-	-	-	2.41	21.4	2.41	21.4	-	-	2.41	21.4	-	-	2.41	21.4
-	150	-	-	2.41	22.3	2.41	22.3	-	-	2.41	22.3	-	-	2.41	22.3
300MCM	-	-	-	2.41	23.1	2.41	23.1	-	-	2.41	23.1	-	-	2.41	23.1
350MCM	185	-	-	2.41	24.0	2.41	24.0	-	-	2.41	24.0	-	-	2.41	24.0
400MCM	-	-	-	2.41	25.3	2.41	25.3	-	-	2.41	25.3	-	-	2.41	25.3
-	240	-	-	2.41	26.3	2.41	26.3	-	-	2.41	26.3	-	-	2.41	26.3
500MCM	-	-	-	-	-	2.41	27.7	-	-	-	-	-	-	2.41	27.7
-	300	-	-	-	-	2.79	30.1	-	-	-	-	-	-	2.79	30.1
600MCM	-	-	-	-	-	2.79	30.7	-	-	-	-	-	-	2.79	30.7
700MCM	-	-	-	-	-	2.79	32.6	-	-	-	-	-	-	2.79	32.6
750MCM	400	-	-	-	-	2.79	33.6	-	-	-	-	-	-	2.79	33.6
Conducting metal		B*CDEF*G		B*CDEG		B*CDEF*G		B*CDEF*G		B*CDEG		B*CDEF*G		B*CDEF*G	

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

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

- NS Not Specified
- VNS Voltage Not Specified

■ : UL approved nominal cross-sections only.

* The diameter is provided for information purposes as it may vary depending on the stranding of the core.
 Only the average thickness of insulation should be taken into account.
 ** Also available in a triple UL, cUL and VDE approved version for metric cross-sections from 0.5 mm² to 2.5 mm² (ref. style 3512VDE).

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SILICABLE® CS-HRD and ECS-HRD

Insulation with improved
mechanical strength
-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



- 1 • Flexible bare copper (ref. CS-HRD) or tin-plated (ref. ECS-HRD) core – class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber with high mechanical properties.

Approvals - standards

- Halogen-free:
IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Nickel-plated copper core: ref. CNCS-HRD.
- Silver-plated copper core: ref. ACS-HRD.
- Pure nickel core (not described in IEC 60228):
ref. NCS-HRD.
 - Outer electrical shielding:
> Tin-plated copper braid: ref. CSBE-HRD
or ECSBE-HRD.
- Stranded bare copper (ref. CS-HRD)
or tin-plated (ref. ECS-HRD) core
- class 2 as per IEC 60228:
See details of the option below.
 - Double insulating layers:
ref. CSC-HRD or ref. ECSC-HRD.
- Other nominal cross-sections: contact us.
 - Other options and/or combinations
of the options outlined above: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Improved mechanical strength.

Electrical

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

Standard products

- All colours including two-coloured.

CS-HRD and ECS-HRD

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	16 × 0.20	39.0
0.75	24 × 0.20	26.0
1	32 × 0.20	19.5
1.5	30 × 0.25	13.3
2.5	50 × 0.25	7.98
4	56 × 0.30	4.95
6	84 × 0.30	3.30

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	7.8
0.6	2.4	11.0
0.6	2.5	13.3
0.6	2.8	18.2
0.7	3.4	29.0
0.8	4.2	45.8
0.8	4.8	65.5

Option • CS-HRD and ECS-HRD

Stranded core • class 2 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	7 × 0.30	36.0
0.75	7 × 0.37	24.5
1	7 × 0.43	18.1
1.5	7 × 0.52	12.1
2.5	7 × 0.67	7.41
4	7 × 0.85	4.61
6	7 × 1.04	3.08

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	7.8
0.6	2.4	11.0
0.6	2.5	13.4
0.6	2.8	18.4
0.7	3.4	29.2
0.8	4.2	46.2
0.8	4.8	66.0

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SILICABLE® CS-FRNC and ECS-FRNC

Improved flame resistance
-60 °C to +180 °C



- Flexible bare copper (ref. CS-FRNC) or tin-plated (ref. ECS-FRNC) core - class 5 as per IEC 60228.
- Insulation: Silicone rubber.

Approvals - standards

- Halogen-free:
IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions:
IEC 60754-2 / EN 60754-2.
 - Low smoke density:
IEC 61034-2 / EN 61034-2.
- Resistance to vertical flame propagation for a single insulated wire.
IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.

Applications

- Cabling for household electrical heating appliances.
- Rotating machines (class H).
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Nickel-plated copper core: ref. CNCS-FRNC.
 - Silver-plated copper core: ref. ACS-FRNC.
- Pure nickel core (not described in IEC 60228): ref. NCS-FRNC.
 - Outer electrical shielding:
- Tin-plated copper braid: ref. CSBE-FRNC or ECSBE-FRNC.
 - Stranded bare copper (CS-FRNC) or tin-plated (ref. ECS-FRNC) core - class 2 as per IEC 60228:
See details of the option below.
- Other nominal cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Excellent flame resistance properties.

Electrical

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

Standard products

- All colours including two-coloured.

CS-FRNC and ECS-FRNC

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	8.7
0.6	2.4	12.0
0.6	2.5	14.3
0.6	2.8	19.5
0.7	3.4	30.7

Option • CS-FRNC and ECS-FRNC

Stranded core • class 2 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	7 x 0.30	36.0
0.75	7 x 0.37	24.5
1	7 x 0.43	18.1
1.5	7 x 0.52	12.1
2.5	7 x 0.67	7.41

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.1	8.6
0.6	2.4	12.0
0.6	2.5	14.5
0.6	2.8	19.7
0.7	3.4	31.0

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LES CABLES DE L'EXTREME

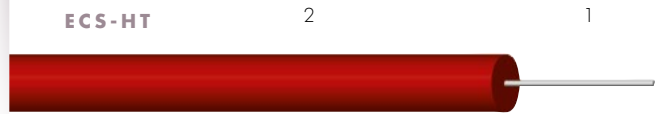
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SILICABLE® HT

Ignition wires

-60 °C to +180 °C



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

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Ignition circuit and creation of an electric arc for:
 - > Piezo-electric components in household electrical appliances.
 - > Gas or oil burners for boilers and professional appliances.

Options

- Pure nickel core: ref. NCS-HT or NCSV-HT or NCSVCS-HT.
 - Outer electrical shielding:
 - > Tin-plated copper braid: ref CSBE-HT or CSVBE-HT or CSVCSBE-HT.
 - Cable resistant to vertical flame propagation: contact us.
 - Other nominal cross-sections or nominal stranding: contact us.
 - Other colours: contact us.
 - Other options and/or combinations of the options outlined above: contact us.
 - Applications requiring the design of a specific cable: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Pulse voltage: from 15 to 30 kV.

Standard products

- Main products: see table below.
- Standard insulation colours: white, black, brick red and colourless.

Core	CS-HT range Insulation: Silicone rubber	CSV-HT range Insulation: Silicone rubber + silicone coated fibreglass braid	CSVCS-HT range Insulation: Silicone rubber double layer with intermediate fibreglass braid
In bare copper	CS-HT	CSV-HT	CSVCS-HT
In tin-plated copper	ECS-HT	ECSV-HT	ECSVCS-HT
In silver-plated copper	ACS-HT	ACSV-HT	ACSVCS-HT
In nickel-plated copper	CNCS-HT	CNCSV-HT	CNCSVCS-HT

For this product, please contact:

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15 KV*

20 KV*

25 KV*

30 KV*

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	15 KV*		20 KV*		25 KV*		30 KV*	
			Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)
CS-HT										
0.25	8 x 0.20 or 14 x 0.15	82.9	2.7	10.2	3.4	15.1	4.8	28.3	6.3	47.6
0.34	7 x 0.25 or 19 x 0.16	59.2	2.8	11.5	3.5	16.6	4.9	30.2	6.4	49.7
0.5	7 x 0.30 or 16 x 0.20	40.1	3.0	13.9	3.7	19.3	5.0	33.6	6.6	53.8
0.6	19 x 0.20	33.7	3.0	14.6	3.7	20.0	5.2	34.2	6.6	54.5
0.75	24 x 0.20	26.7	3.2	17.1	3.9	22.9	5.3	37.7	6.8	58.7
0.93	19 x 0.25	21.6	3.3	19.2	4.0	25.1	5.4	40.3	6.9	61.6
1	32 x 0.20	20.0	3.4	20.4	4.1	26.5	5.5	42.0	7.0	63.6
1.34	19 x 0.30	15.0	3.5	23.6	4.2	29.9	5.6	45.7	7.1	67.7
1.5	30 x 0.25	13.7	3.6	25.3	4.3	31.7	5.8	47.9	7.2	70.2
2.5	50 x 0.25	8.21	4.0	36.7	4.8	43.9	6.2	61.7	7.7	85.7
4	56 x 0.30	5.09	4.6	52.3	5.3	60.3	6.7	79.7	8.2	106
CSV-HT										
0.34	7 x 0.25 or 19 x 0.16	59.2	2.8	11.5	3.5	16.6	4.9	30.2	6.4	49.7
0.5	7 x 0.30 or 16 x 0.20	40.1	3.0	13.9	3.7	19.3	5.1	33.6	6.6	53.8
0.6	19 x 0.20	33.7	3.0	14.6	3.7	20.0	5.1	34.2	6.6	54.5
0.75	24 x 0.20	26.7	3.2	17.1	3.9	22.9	5.3	37.7	6.8	58.7
0.93	19 x 0.25	21.6	3.5	20.3	4.2	26.5	5.6	42.2	7.1	64.0
1	32 x 0.20	20.0	3.6	21.6	4.3	27.9	5.7	43.9	7.2	66.1
1.34	19 x 0.30	15.0	3.7	24.9	4.4	31.3	5.8	47.7	7.3	70.2
1.5	30 x 0.25	13.7	3.8	26.6	4.5	33.2	5.9	49.9	7.4	72.7
2.5	50 x 0.25	8.21	4.3	38.1	5.0	45.6	6.4	63.8	7.9	88.4
CSVCS-HT										
0.5	7 x 0.30 or 16 x 0.20	40.1	3.3	16.1	4.8	30.1	6.3	49.4	8.7	90.9
0.6	19 x 0.20	33.7	3.3	16.8	4.8	30.8	6.3	50.0	8.7	91.6
0.75	24 x 0.20	26.7	3.5	19.5	5.0	34.2	6.5	54.1	8.9	96.8
0.93	19 x 0.25	21.6	3.6	21.6	5.1	36.6	6.6	56.9	9.0	100
1	32 x 0.20	20.0	3.8	23.7	5.2	38.3	6.7	58.9	9.1	103
1.34	19 x 0.30	15.0	3.9	27.1	5.3	41.9	6.8	62.9	9.2	107
1.5	30 x 0.25	13.7	4.0	28.8	5.4	44.0	7.3	71.9	9.3	110

* Pulse voltage.

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LES CABLES DE L'EXTREME

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® ECS-HT VDE

Ignition wires
VDE approval
-60 °C to +180 °C



Approvals - standards

- VDE approval: licence No. 106491.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Ignition circuit and creation of an electric arc for:
 - > Piezo-electric components in household electrical appliances.
 - > Gas or oil burners for boilers and professional appliances.

Options

- Solid tin-plated copper core (ref. RECS-HT VDE)
 - class 1 as per IEC 60228:
 See details of the option below.
 - Other colours: contact us.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228/ DIN VDE 0295.
- 2 • Insulation: Silicone rubber – type EI2 - DIN EN 50363-1.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 1.8/3.0 kV.
- Pulse voltage: 10 kV.

Standard products

- Standard insulation colours: white, black, brick red and colourless.

ECS-HT VDE

Flexible core • class 5 as per IEC 60228			INSULATED WIRE		
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.75	24 x 0.20	26.7	1.3	3.8	22.0
1	32 x 0.20	20.0	1.3	3.9	24.6
1.5	30 x 0.25	13.7	1.3	4.2	30.7

Option • RECS-HT VDE

Solid core • class 1 as per IEC 60228			INSULATED WIRE		
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.75	1 x 0.98	24.8	1.3	3.6	20.6
1	1 x 1.13	18.2	1.3	3.8	24.2
1.5	1 x 1.38	12.2	1.3	4.0	29.7

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE®

Type B, L, C2 and D2

Illuminated sign cables



Approvals - standards

- Halogen-free: EN 50143 / EN 60754-1 / EN 60754-2.
- USE HAR approval as per NF EN 50143 for type B and L.

Applications

- Cables for illuminated signs and illuminated discharge tubes.

Options

- Other colours: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C (Types B and L).
-30 °C to +90 °C (Types C2 and D2).
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 5/10 kV (Types B, C2 and D2).
3/6 kV (Type L).
- Test voltage: 15 kV for 5 min (Type B, C2 and D2).
7.5 kV for 5 min (Type L).

Standard products

- Types B and L: white, grey or colourless.
- Types C2 and D2: > Insulation: white.
> Sheathing: orange.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

Type B	2		1
332 - USE HAR - EN 50143 - B - 5000/10000 V			
Type L	2		1
RIN 369 - EN 50143 - L - 3000/6000 V			
Type C2	3	2	1
OMERIN 332 - C2 - 5000 / 10000 V			
Type D2	3	4	2
143 - D2 - 5000/10000V			

- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228 / EN 60228.
- 2 • Insulation: Silicone rubber - type EI2 - EN 50363-1.
- 3 • Outer sheath: HFFR - type ZM1 - NF EN 50143.
- 4 • Electrical shielding: Tin-plated copper braid.

Type B, L, C2 and D2

Reference	Flexible core • class 5 as per IEC 60228			INSULATED WIRE			
	Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal thickness of the sheathing (mm)	Nominal diameter (mm)	
						min.	max.
1		32 x 0.20	20.0	2.5	-	6.0	7.2
1		32 x 0.20	20.0	-	-	5.0	-
1		32 x 0.20	20.0	2.5	0.9	7.8	9.0
1		32 x 0.20	20.0	2.5	0.9	8.8	10.2

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LES CABLES DE L'EXTREME

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SILICABLE® MC-ECS

-60 °C to +180 °C

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Fire retardant: NF C 32-070 test C1.
 - Resistance to vertical flame propagation for an insulated cable: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Tests on electric cables under fire conditions
Circuit integrity: IEC 60331-21.

Options

- Bare copper core: ref. MC-CS.
- Nickel-plated copper core: ref. MC-CNCS.
 - Silver-plated copper core: ref. MCACS.
- Pure nickel core (not described in IEC 60228): ref. MC-NCS.
 - Outer electrical shielding:
 - > Tin-plated copper braid: ref. BEMCECS.
 - Outer flexible armour:
 - > Galvanised steel braid: ref. BGMCECS.
 - > Stainless steel braid: ref. BIMCECS.
 - Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Outer sheath: Silicone rubber.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

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 colour: brick red.

Applications

- Cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
- Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
- Lights, spotlights, etc.

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	5.6	39.8
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.2	51.0
4 x 0.5	16 x 0.20	40.1	0.6	2.1	6.8	61.8
5 x 0.5	16 x 0.20	40.1	0.6	2.1	7.7	77.6
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.3	85.7
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.3	94.4
10 x 0.5	16 x 0.20	40.1	0.6	2.1	11.0	145
12 x 0.5	16 x 0.20	40.1	0.6	2.1	11.6	171
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.1	191
16 x 0.5	16 x 0.20	40.1	0.6	2.1	12.6	210
19 x 0.5	16 x 0.20	40.1	0.6	2.1	13.4	245
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.1	49.1
3 x 0.75	24 x 0.20	26.7	0.6	2.4	6.5	59.5
4 x 0.75	24 x 0.20	26.7	0.6	2.4	7.5	78.7
5 x 0.75	24 x 0.20	26.7	0.6	2.4	8.4	96.9
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.1	108
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.2	122
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.0	180
12 x 0.75	24 x 0.20	26.7	0.6	2.4	12.8	218
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.1	237
16 x 0.75	24 x 0.20	26.7	0.6	2.4	13.9	268
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.0	322

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	6.7	61.1
3 x 1	32 x 0.20	20.0	0.6	2.5	7.2	75.4
4 x 1	32 x 0.20	20.0	0.6	2.5	7.9	92.2
5 x 1	32 x 0.20	20.0	0.6	2.5	8.9	115
6 x 1	32 x 0.20	20.0	0.6	2.5	9.7	130
7 x 1	32 x 0.20	20.0	0.6	2.5	9.9	149
10 x 1	32 x 0.20	20.0	0.6	2.5	12.8	217
12 x 1	32 x 0.20	20.0	0.6	2.5	13.4	254
14 x 1	32 x 0.20	20.0	0.6	2.5	13.9	283
16 x 1	32 x 0.20	20.0	0.6	2.5	14.5	313
19 x 1	32 x 0.20	20.0	0.6	2.5	15.3	362
2 x 1.5	30 x 0.25	13.7	0.6	2.8	7.4	77.8
3 x 1.5	30 x 0.25	13.7	0.6	2.8	7.8	94.2
4 x 1.5	30 x 0.25	13.7	0.6	2.8	8.5	115
5 x 1.5	30 x 0.25	13.7	0.6	2.8	9.4	139
6 x 1.5	30 x 0.25	13.7	0.6	2.8	10.2	155
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.2	175
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.2	251
12 x 1.5	30 x 0.25	13.7	0.6	2.8	15.0	337
14 x 1.5	30 x 0.25	13.7	0.6	2.8	15.6	377
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.2	415
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.0	477
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.0	119
3 x 2.5	50 x 0.25	8.21	0.7	3.4	9.5	146
4 x 2.5	50 x 0.25	8.21	0.7	3.4	10.4	179
5 x 2.5	50 x 0.25	8.21	0.7	3.4	11.4	214
6 x 2.5	50 x 0.25	8.21	0.7	3.4	12.4	242
7 x 2.5	50 x 0.25	8.21	0.7	3.4	12.4	272
10 x 2.5	50 x 0.25	8.21	0.7	3.4	16.6	411
12 x 2.5	50 x 0.25	8.21	0.7	3.4	17.4	487
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.2	552
16 x 2.5	50 x 0.25	8.21	0.7	3.4	19.2	622
19 x 2.5	50 x 0.25	8.21	0.7	3.4	20.4	730
2 x 4	56 x 0.30	5.09	0.8	4.2	10.4	167
3 x 4	56 x 0.30	5.09	0.8	4.2	11.4	218
4 x 4	56 x 0.30	5.09	0.8	4.2	12.5	269
5 x 4	56 x 0.30	5.09	0.8	4.2	13.9	328
6 x 4	56 x 0.30	5.09	0.8	4.2	15.6	388
7 x 4	56 x 0.30	5.09	0.8	4.2	15.6	436
10 x 4	56 x 0.30	5.09	0.8	4.2	20.0	619
12 x 4	56 x 0.30	5.09	0.8	4.2	21.0	736
14 x 4	56 x 0.30	5.09	0.8	4.2	22.4	860
16 x 4	56 x 0.30	5.09	0.8	4.2	23.4	955
19 x 4	56 x 0.30	5.09	0.8	4.2	24.6	1107
2 x 6	84 x 0.30	3.39	0.8	4.8	12.4	243
3 x 6	84 x 0.30	3.39	0.8	4.8	12.8	293
4 x 6	84 x 0.30	3.39	0.8	4.8	14.0	363
5 x 6	84 x 0.30	3.39	0.8	4.8	17.4	514
6 x 6	84 x 0.30	3.39	0.8	4.8	18.8	580
7 x 6	84 x 0.30	3.39	0.8	4.8	18.8	648
2 x 10	80 x 0.40	1.95	1.0	6.4	15.4	372
3 x 10	80 x 0.40	1.95	1.0	6.4	18.0	532
4 x 10	80 x 0.40	1.95	1.0	6.4	20.0	669
5 x 10	80 x 0.40	1.95	1.0	6.4	22.0	805
6 x 10	80 x 0.40	1.95	1.0	6.4	22.8	850
7 x 10	80 x 0.40	1.95	1.0	6.4	22.8	963
2 x 16	126 x 0.40	1.24	1.2	7.8	19.0	570
3 x 16	126 x 0.40	1.24	1.2	7.8	21.0	756
4 x 16	126 x 0.40	1.24	1.2	7.8	23.2	944
5 x 16	126 x 0.40	1.24	1.2	7.8	25.6	1141
6 x 16	126 x 0.40	1.24	1.2	7.8	27.8	1287
7 x 16	126 x 0.40	1.24	1.2	7.8	27.8	1458
2 x 25	196 x 0.40	0.795	1.4	9.6	24.0	917
3 x 25	196 x 0.40	0.795	1.4	9.6	25.6	1160
4 x 25	196 x 0.40	0.795	1.4	9.6	28.5	1466

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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).

SILICABLE® MCBE-ECS and MCBAL-ECS -60 °C to +180 °C

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Fire retardant: NF C 32-070 test C1.
- Resistance to vertical flame propagation for an insulated cable: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Tests on electric cables under fire conditions
Circuit integrity: IEC 60331-21.

Options

- Bare copper core: ref. MCBE-CS and ref. MCBAL-CS.
 - Inner protective sheath in silicone rubber between the conductor assembly and metal braid: ref. MCBE-ECS and ref. MCBAL-ECS
 - Outer flexible armour:
 - > Galvanised steel braid: ref. BGMCBE-ECS and ref. BGMCBAL-ECS.
 - > Stainless steel braid: ref. BIMCBE-ECS and ref. BIMCBAL-ECS.
 - Outer braid in silicone coated fibreglass ref. VMCBE-ECS and VMCBAL-ECS.
 - Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other colours: contact us.

Characteristics General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

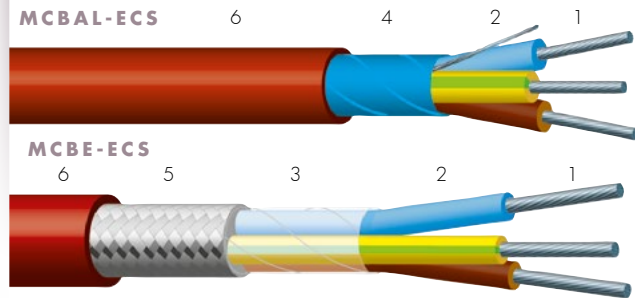
Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colour: brick red.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
- Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
- Lights, spotlights, etc.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Optional separating tape.
- 4 • Electrical shielding: Aluminium/PET tape + continuity wire.
- 5 • Electrical shielding: Tin-plated copper braid.
- 6 • Outer sheath: Silicone rubber.

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	INSULATED CONDUCTORS		SHEATHED CABLE	
			Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	6.2	55.0
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.8	71.8
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.6	88.7
5 x 0.5	16 x 0.20	40.1	0.6	2.1	8.3	104
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.9	115
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.9	124
10 x 0.5	16 x 0.20	40.1	0.6	2.1	11.0	168
12 x 0.5	16 x 0.20	40.1	0.6	2.1	11.6	194
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.1	216
16 x 0.5	16 x 0.20	40.1	0.6	2.1	12.8	247
19 x 0.5	16 x 0.20	40.1	0.6	2.1	13.4	279
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.7	69.3
3 x 0.75	24 x 0.20	26.7	0.6	2.4	7.3	85.6
4 x 0.75	24 x 0.20	26.7	0.6	2.4	8.1	105
5 x 0.75	24 x 0.20	26.7	0.6	2.4	9.0	126
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.7	141
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.8	155
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.5	226
12 x 0.75	24 x 0.20	26.7	0.6	2.4	13.1	260
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.7	290
16 x 0.75	24 x 0.20	26.7	0.6	2.4	14.4	321
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.1	365

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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.

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	7.3	82.6
3 x 1	32 x 0.20	20.0	0.6	2.5	7.8	99.7
4 x 1	32 x 0.20	20.0	0.6	2.5	8.5	120
5 x 1	32 x 0.20	20.0	0.6	2.5	9.5	146
6 x 1	32 x 0.20	20.0	0.6	2.5	10.3	165
7 x 1	32 x 0.20	20.0	0.6	2.5	10.5	184
10 x 1	32 x 0.20	20.0	0.6	2.5	13.0	256
12 x 1	32 x 0.20	20.0	0.6	2.5	13.9	305
14 x 1	32 x 0.20	20.0	0.6	2.5	14.7	347
16 x 1	32 x 0.20	20.0	0.6	2.5	15.8	397
19 x 1	32 x 0.20	20.0	0.6	2.5	16.4	444
2 x 1.5	30 x 0.25	13.7	0.6	2.8	8.1	104
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.5	123
4 x 1.5	30 x 0.25	13.7	0.6	2.8	9.3	149
5 x 1.5	30 x 0.25	13.7	0.6	2.8	10.2	177
6 x 1.5	30 x 0.25	13.7	0.6	2.8	11.0	198
7 x 1.5	30 x 0.25	13.7	0.6	2.8	11.0	218
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.8	307
12 x 1.5	30 x 0.25	13.7	0.6	2.8	15.0	375
14 x 1.5	30 x 0.25	13.7	0.6	2.8	15.8	425
16 x 1.5	30 x 0.25	13.7	0.6	2.8	17.0	488
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.8	574
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.8	152
3 x 2.5	50 x 0.25	8.21	0.7	3.4	10.3	182
4 x 2.5	50 x 0.25	8.21	0.7	3.4	11.2	220
5 x 2.5	50 x 0.25	8.21	0.7	3.4	12.2	265
6 x 2.5	50 x 0.25	8.21	0.7	3.4	13.4	305
7 x 2.5	50 x 0.25	8.21	0.7	3.4	13.4	336
10 x 2.5	50 x 0.25	8.21	0.7	3.4	17.1	494
12 x 2.5	50 x 0.25	8.21	0.7	3.4	17.8	569
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.9	652
16 x 2.5	50 x 0.25	8.21	0.7	3.4	20.1	735
19 x 2.5	50 x 0.25	8.21	0.7	3.4	21.5	861
2 x 4	56 x 0.30	5.09	0.8	4.2	11.0	201
3 x 4	56 x 0.30	5.09	0.8	4.2	12.0	257
4 x 4	56 x 0.30	5.09	0.8	4.2	13.3	324
5 x 4	56 x 0.30	5.09	0.8	4.2	14.5	384
6 x 4	56 x 0.30	5.09	0.8	4.2	16.2	451
7 x 4	56 x 0.30	5.09	0.8	4.2	16.2	499
10 x 4	56 x 0.30	5.09	0.8	4.2	20.7	730
12 x 4	56 x 0.30	5.09	0.8	4.2	21.8	855
14 x 4	56 x 0.30	5.09	0.8	4.2	23.0	977
16 x 4	56 x 0.30	5.09	0.8	4.2	24.4	1103
19 x 4	56 x 0.30	5.09	0.8	4.2	26.1	1320
2 x 6	84 x 0.30	3.39	0.8	4.8	13.0	283
3 x 6	84 x 0.30	3.39	0.8	4.8	14.6	381
4 x 6	84 x 0.30	3.39	0.8	4.8	15.8	461
5 x 6	84 x 0.30	3.39	0.8	4.8	18.0	579
6 x 6	84 x 0.30	3.39	0.8	4.8	19.5	677
7 x 6	84 x 0.30	3.39	0.8	4.8	19.5	746
2 x 10	80 x 0.40	1.95	1.0	6.4	16.0	428
3 x 10	80 x 0.40	1.95	1.0	6.4	18.6	599
4 x 10	80 x 0.40	1.95	1.0	6.4	20.8	774
5 x 10	80 x 0.40	1.95	1.0	6.4	22.6	911
6 x 10	80 x 0.40	1.95	1.0	6.4	24.5	1031
7 x 10	80 x 0.40	1.95	1.0	6.4	24.5	1144
2 x 16	126 x 0.40	1.24	1.2	7.8	20.4	676
3 x 16	126 x 0.40	1.24	1.2	7.8	21.8	866
4 x 16	126 x 0.40	1.24	1.2	7.8	24.0	1069
5 x 16	126 x 0.40	1.24	1.2	7.8	26.6	1319
6 x 16	126 x 0.40	1.24	1.2	7.8	29.1	1511
7 x 16	126 x 0.40	1.24	1.2	7.8	29.1	1682
2 x 25	196 x 0.40	0.795	1.4	9.6	24.1	996
3 x 25	196 x 0.40	0.795	1.4	9.6	26.2	1284
4 x 25	196 x 0.40	0.795	1.4	9.6	29.3	1620

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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).

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® MC-HRD

Insulation and sheathing with improved mechanical strength

-60 °C to +180 °C



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber with high mechanical properties.
- 3 • Outer sheath: Silicone rubber with high mechanical properties.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
 - Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
 - Lights, spotlights, etc.

Options

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

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Improved mechanical properties (tear strength, notch propagation and cut-through resistance).
- Good resistance to thermal shock and UV.

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 colour: black.

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	5.8	36.1
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.2	43.9
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.0	56.1
5 x 0.5	16 x 0.20	40.1	0.6	2.1	7.9	70.1
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.5	77.7
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.5	85.6
10 x 0.5	16 x 0.20	40.1	0.6	2.1	10.8	122
12 x 0.5	16 x 0.20	40.1	0.6	2.1	11.6	149
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.1	167
16 x 0.5	16 x 0.20	40.1	0.6	2.1	12.7	186
19 x 0.5	16 x 0.20	40.1	0.6	2.1	13.3	212
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.3	44.6
3 x 0.75	24 x 0.20	26.7	0.6	2.4	6.7	54.5
4 x 0.75	24 x 0.20	26.7	0.6	2.4	7.5	68.9
5 x 0.75	24 x 0.20	26.7	0.6	2.4	8.4	84.9
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.6	104
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.6	115
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.2	163
12 x 0.75	24 x 0.20	26.7	0.6	2.4	12.8	192
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.4	217
16 x 0.75	24 x 0.20	26.7	0.6	2.4	14.3	248
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.0	285

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	6.7	52.9
3 x 1	32 x 0.20	20.0	0.6	2.5	7.3	67.6
4 x 1	32 x 0.20	20.0	0.6	2.5	7.9	81.5
5 x 1	32 x 0.20	20.0	0.6	2.5	8.9	102
6 x 1	32 x 0.20	20.0	0.6	2.5	9.9	119
7 x 1	32 x 0.20	20.0	0.6	2.5	9.9	132
10 x 1	32 x 0.20	20.0	0.6	2.5	12.6	188
12 x 1	32 x 0.20	20.0	0.6	2.5	13.2	222
14 x 1	32 x 0.20	20.0	0.6	2.5	14.1	259
16 x 1	32 x 0.20	20.0	0.6	2.5	14.8	289
19 x 1	32 x 0.20	20.0	0.6	2.5	15.5	332
2 x 1.5	30 x 0.25	13.7	0.6	2.8	7.6	70.8
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.0	86.8
4 x 1.5	30 x 0.25	13.7	0.6	2.8	8.8	108
5 x 1.5	30 x 0.25	13.7	0.6	2.8	9.6	128
6 x 1.5	30 x 0.25	13.7	0.6	2.8	10.4	145
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.4	163
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.6	238
12 x 1.5	30 x 0.25	13.7	0.6	2.8	14.5	289
14 x 1.5	30 x 0.25	13.7	0.6	2.8	15.2	329
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.2	376
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.0	434
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.2	108
3 x 2.5	50 x 0.25	8.21	0.7	3.4	9.7	134
4 x 2.5	50 x 0.25	8.21	0.7	3.4	10.6	166
5 x 2.5	50 x 0.25	8.21	0.7	3.4	11.6	199
6 x 2.5	50 x 0.25	8.21	0.7	3.4	12.8	230
7 x 2.5	50 x 0.25	8.21	0.7	3.4	12.8	259
10 x 2.5	50 x 0.25	8.21	0.7	3.4	16.2	363
12 x 2.5	50 x 0.25	8.21	0.7	3.4	17.0	432
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.0	499
16 x 2.5	50 x 0.25	8.21	0.7	3.4	19.2	571
19 x 2.5	50 x 0.25	8.21	0.7	3.4	20.2	663
2 x 4	56 x 0.30	5.09	0.8	4.2	10.8	156
3 x 4	56 x 0.30	5.09	0.8	4.2	11.4	196
4 x 4	56 x 0.30	5.09	0.8	4.2	12.7	249
5 x 4	56 x 0.30	5.09	0.8	4.2	14.0	302
6 x 4	56 x 0.30	5.09	0.8	4.2	15.6	354
7 x 4	56 x 0.30	5.09	0.8	4.2	15.6	400
10 x 4	56 x 0.30	5.09	0.8	4.2	19.8	562
12 x 4	56 x 0.30	5.09	0.8	4.2	20.7	666
14 x 4	56 x 0.30	5.09	0.8	4.2	22.0	774
16 x 4	56 x 0.30	5.09	0.8	4.2	23.4	882
19 x 4	56 x 0.30	5.09	0.8	4.2	24.8	1035
2 x 6	84 x 0.30	3.39	0.8	4.8	12.4	217
3 x 6	84 x 0.30	3.39	0.8	4.8	13.2	278
4 x 6	84 x 0.30	3.39	0.8	4.8	14.6	351
5 x 6	84 x 0.30	3.39	0.8	4.8	16.0	423
6 x 6	84 x 0.30	3.39	0.8	4.8	17.4	483
7 x 6	84 x 0.30	3.39	0.8	4.8	17.4	548
2 x 10	80 x 0.40	1.95	1.0	6.4	15.8	346
3 x 10	80 x 0.40	1.95	1.0	6.4	16.9	445
4 x 10	80 x 0.40	1.95	1.0	6.4	18.7	561
5 x 10	80 x 0.40	1.95	1.0	6.4	20.5	675
6 x 10	80 x 0.40	1.95	1.0	6.4	22.8	788
7 x 10	80 x 0.40	1.95	1.0	6.4	22.8	896
2 x 16	126 x 0.40	1.24	1.2	7.8	18.8	506
3 x 16	126 x 0.40	1.24	1.2	7.8	20.1	654
4 x 16	126 x 0.40	1.24	1.2	7.8	22.4	833
5 x 16	126 x 0.40	1.24	1.2	7.8	24.9	1019
6 x 16	126 x 0.40	1.24	1.2	7.8	27.4	1175
7 x 16	126 x 0.40	1.24	1.2	7.8	27.4	1339
2 x 25	196 x 0.40	0.795	1.4	9.6	22.8	773
3 x 25	196 x 0.40	0.795	1.4	9.6	24.4	1007
4 x 25	196 x 0.40	0.795	1.4	9.6	27.2	1285

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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).

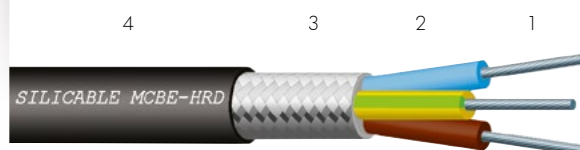
HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® MCBE-HRD

Insulation and sheathing with
improved mechanical strength

-60 °C to +180 °C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
 - Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
 - Lights, spotlights, etc.

Options

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

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Improved mechanical properties (tear strength, notch propagation and cut-through resistance).
- Good resistance to thermal shock and UV.

Electrical

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

- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber with high mechanical properties.
- 3 • Electrical shielding: Tin-plated copper braid.
- 4 • Outer sheath: Silicone rubber with high mechanical properties.

Standard products

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

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	INSULATED CONDUCTORS		SHEATHED CABLE	
			Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	6.5	52.3
3 x 0.5	16 x 0.20	40.1	0.6	2.1	7.0	66.6
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.7	80.9
5 x 0.5	16 x 0.20	40.1	0.6	2.1	8.5	96.8
6 x 0.5	16 x 0.20	40.1	0.6	2.1	9.3	112
7 x 0.5	16 x 0.20	40.1	0.6	2.1	9.3	119
10 x 0.5	16 x 0.20	40.1	0.6	2.1	11.8	170
12 x 0.5	16 x 0.20	40.1	0.6	2.1	12.4	193
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.9	214
16 x 0.5	16 x 0.20	40.1	0.6	2.1	13.6	244
19 x 0.5	16 x 0.20	40.1	0.6	2.1	14.4	279
2 x 0.75	24 x 0.20	26.7	0.6	2.4	7.2	69.2
3 x 0.75	24 x 0.20	26.7	0.6	2.4	7.6	81.8
4 x 0.75	24 x 0.20	26.7	0.6	2.4	8.4	99.8
5 x 0.75	24 x 0.20	26.7	0.6	2.4	9.0	115
6 x 0.75	24 x 0.20	26.7	0.6	2.4	10.0	134
7 x 0.75	24 x 0.20	26.7	0.6	2.4	10.0	145
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.9	215
12 x 0.75	24 x 0.20	26.7	0.6	2.4	13.5	246
14 x 0.75	24 x 0.20	26.7	0.6	2.4	14.3	279
16 x 0.75	24 x 0.20	26.7	0.6	2.4	15.0	309
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.9	355

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Flexible core • class 5 as per IEC 60228

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	7.6	78.7
3 x 1	32 x 0.20	20.0	0.6	2.5	8.0	93.4
4 x 1	32 x 0.20	20.0	0.6	2.5	8.6	111
5 x 1	32 x 0.20	20.0	0.6	2.5	9.6	134
6 x 1	32 x 0.20	20.0	0.6	2.5	10.5	154
7 x 1	32 x 0.20	20.0	0.6	2.5	10.5	168
10 x 1	32 x 0.20	20.0	0.6	2.5	13.3	242
12 x 1	32 x 0.20	20.0	0.6	2.5	14.1	283
14 x 1	32 x 0.20	20.0	0.6	2.5	14.7	317
16 x 1	32 x 0.20	20.0	0.6	2.5	15.7	357
19 x 1	32 x 0.20	20.0	0.6	2.5	16.4	405
2 x 1.5	30 x 0.25	13.7	0.6	2.8	8.2	94.6
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.6	114
4 x 1.5	30 x 0.25	13.7	0.6	2.8	9.4	138
5 x 1.5	30 x 0.25	13.7	0.6	2.8	10.2	162
6 x 1.5	30 x 0.25	13.7	0.6	2.8	11.0	184
7 x 1.5	30 x 0.25	13.7	0.6	2.8	11.0	202
10 x 1.5	30 x 0.25	13.7	0.6	2.8	14.3	298
12 x 1.5	30 x 0.25	13.7	0.6	2.8	14.9	345
14 x 1.5	30 x 0.25	13.7	0.6	2.8	15.8	394
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.9	445
19 x 1.5	30 x 0.25	13.7	0.6	2.8	18.1	542
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.8	137
3 x 2.5	50 x 0.25	8.21	0.7	3.4	10.3	166
4 x 2.5	50 x 0.25	8.21	0.7	3.4	11.2	202
5 x 2.5	50 x 0.25	8.21	0.7	3.4	12.2	245
6 x 2.5	50 x 0.25	8.21	0.7	3.4	13.4	283
7 x 2.5	50 x 0.25	8.21	0.7	3.4	13.4	312
10 x 2.5	50 x 0.25	8.21	0.7	3.4	17.3	467
12 x 2.5	50 x 0.25	8.21	0.7	3.4	18.2	545
14 x 2.5	50 x 0.25	8.21	0.7	3.4	19.3	621
16 x 2.5	50 x 0.25	8.21	0.7	3.4	20.5	700
19 x 2.5	50 x 0.25	8.21	0.7	3.4	21.7	809
2 x 4	56 x 0.30	5.09	0.8	4.2	11.6	196
3 x 4	56 x 0.30	5.09	0.8	4.2	12.3	242
4 x 4	56 x 0.30	5.09	0.8	4.2	13.4	303
5 x 4	56 x 0.30	5.09	0.8	4.2	14.6	358
6 x 4	56 x 0.30	5.09	0.8	4.2	16.2	419
7 x 4	56 x 0.30	5.09	0.8	4.2	16.2	465
10 x 4	56 x 0.30	5.09	0.8	4.2	20.9	689
12 x 4	56 x 0.30	5.09	0.8	4.2	21.8	798
14 x 4	56 x 0.30	5.09	0.8	4.2	23.0	912
16 x 4	56 x 0.30	5.09	0.8	4.2	24.4	1029
19 x 4	56 x 0.30	5.09	0.8	4.2	26.1	1234
2 x 6	84 x 0.30	3.39	0.8	4.8	13.0	256
3 x 6	84 x 0.30	3.39	0.8	4.8	14.1	335
4 x 6	84 x 0.30	3.39	0.8	4.8	15.5	416
5 x 6	84 x 0.30	3.39	0.8	4.8	16.9	495
6 x 6	84 x 0.30	3.39	0.8	4.8	18.7	601
7 x 6	84 x 0.30	3.39	0.8	4.8	18.7	666
2 x 10	80 x 0.40	1.95	1.0	6.4	16.7	412
3 x 10	80 x 0.40	1.95	1.0	6.4	17.7	517
4 x 10	80 x 0.40	1.95	1.0	6.4	19.7	672
5 x 10	80 x 0.40	1.95	1.0	6.4	21.8	810
6 x 10	80 x 0.40	1.95	1.0	6.4	23.9	934
7 x 10	80 x 0.40	1.95	1.0	6.4	23.9	1041
2 x 16	126 x 0.40	1.24	1.2	7.8	19.7	585
3 x 16	126 x 0.40	1.24	1.2	7.8	21.3	780
4 x 16	126 x 0.40	1.24	1.2	7.8	23.5	970
5 x 16	126 x 0.40	1.24	1.2	7.8	26.2	1211
6 x 16	126 x 0.40	1.24	1.2	7.8	28.7	1396
7 x 16	126 x 0.40	1.24	1.2	7.8	28.7	1560
2 x 25	196 x 0.40	0.795	1.4	9.6	23.9	901
3 x 25	196 x 0.40	0.795	1.4	9.6	25.8	1170
4 x 25	196 x 0.40	0.795	1.4	9.6	28.6	1470

Standard conductor colours:

Identification

Number of conductors	With an earth wire	Without an earth wire
	2	-
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

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® H05SS-F

USE <HAR> Approval

-60 °C to +180 °C

<HAR>

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



Approvals - standards

- USE <HAR> Approval as per NF EN 50525-2-83.
- • Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
 - Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
- • Lights, spotlights, etc.

Options

- • Other outer sheath colours: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-83).

Standard products

- Standard conductor colours: as per HD 308 (see table below).
- Standard outer sheath colour: brick red.

Standard conductor colours (as per HD 308)

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

• 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).

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal thickness of the sheath (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
						min.	max.	
2 x 0.75	24 x 0.20	26.7	0.6	2.4	0.8	5.7	7.4	53.4
3 x 0.75	24 x 0.20	26.7	0.6	2.4	0.9	6.2	8.1	59.5
4 x 0.75	24 x 0.20	26.7	0.6	2.4	0.9	6.8	8.8	80.4
5 x 0.75	24 x 0.20	26.7	0.6	2.4	1.0	7.6	9.9	98.4
2 x 1	32 x 0.20	20.0	0.6	2.5	0.9	6.1	8.0	62.6
3 x 1	32 x 0.20	20.0	0.6	2.5	0.9	6.5	8.5	75.4
4 x 1	32 x 0.20	20.0	0.6	2.5	0.9	7.1	9.3	90.8
5 x 1	32 x 0.20	20.0	0.6	2.5	1.0	8.0	10.3	112
2 x 1.5	30 x 0.25	13.7	0.8	3.2	1.0	7.6	9.8	96.0
3 x 1.5	30 x 0.25	13.7	0.8	3.2	1.0	8.0	10.4	118
4 x 1.5	30 x 0.25	13.7	0.8	3.2	1.1	9.0	11.6	156
5 x 1.5	30 x 0.25	13.7	0.8	3.2	1.1	9.8	12.7	174
2 x 2.5	50 x 0.25	8.21	0.9	3.8	1.1	9.0	11.6	148
3 x 2.5	50 x 0.25	8.21	0.9	3.8	1.1	9.6	12.4	166
4 x 2.5	50 x 0.25	8.21	0.9	3.8	1.2	10.7	13.8	226
5 x 2.5	50 x 0.25	8.21	0.9	3.8	1.3	11.9	15.3	324
3 x 4	56 x 0.30	5.09	1.0	4.6	1.2	11.3	14.5	266
4 x 4	56 x 0.30	5.09	1.0	4.6	1.3	12.7	16.2	319
3 x 6	84 x 0.30	3.39	1.0	5.2	1.4	12.8	16.3	343
4 x 6	84 x 0.30	3.39	1.0	5.2	1.5	14.2	18.1	417

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SILICABLE® H05SS-F HRD

USE <HAR> Approval

-60 °C to +180 °C

<HAR>



Approvals - standards

- USE <HAR> Approval as per NF EN 50525-2-83.
- • Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
 - Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
- • Lights, spotlights, etc.

Options

- Other colours: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Improved mechanical properties (tear strength, notch propagation and cut-through resistance).
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-83).

Standard products

- Standard conductor colours: as per HD 308 (see table below).
- Standard outer sheath colour: black.

Standard conductor colours (as per HD 308)

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

• 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).

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal thickness of the sheath (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
						min.	max.	
2 x 0.75	24 x 0.20	26.7	0.6	2.4	0.8	5.7	7.4	45.8
3 x 0.75	24 x 0.20	26.7	0.6	2.4	0.9	6.2	8.1	52.0
4 x 0.75	24 x 0.20	26.7	0.6	2.4	0.9	6.8	8.8	70.3
5 x 0.75	24 x 0.20	26.7	0.6	2.4	1.0	7.6	9.9	86.1
2 x 1	32 x 0.20	20.0	0.6	2.5	0.9	6.1	8.0	54.2
3 x 1	32 x 0.20	20.0	0.6	2.5	0.9	6.5	8.5	66.2
4 x 1	32 x 0.20	20.0	0.6	2.5	0.9	7.1	9.3	80.4
5 x 1	32 x 0.20	20.0	0.6	2.5	1.0	8.0	10.3	99.0
2 x 1.5	30 x 0.25	13.7	0.8	3.2	1.0	7.6	9.8	82.8
3 x 1.5	30 x 0.25	13.7	0.8	3.2	1.0	8.0	10.4	103
4 x 1.5	30 x 0.25	13.7	0.8	3.2	1.1	9.0	11.6	136
5 x 1.5	30 x 0.25	13.7	0.8	3.2	1.1	9.8	12.7	153
2 x 2.5	50 x 0.25	8.21	0.9	3.8	1.1	9.0	11.6	128
3 x 2.5	50 x 0.25	8.21	0.9	3.8	1.1	9.6	12.4	147
4 x 2.5	50 x 0.25	8.21	0.9	3.8	1.2	10.7	13.8	200
5 x 2.5	50 x 0.25	8.21	0.9	3.8	1.3	11.9	15.3	283
3 x 4	56 x 0.30	5.09	1.0	4.6	1.2	11.3	14.5	235
4 x 4	56 x 0.30	5.09	1.0	4.6	1.3	12.7	16.2	285
3 x 6	84 x 0.30	3.39	1.0	5.2	1.4	12.8	16.3	308
4 x 6	84 x 0.30	3.39	1.0	5.2	1.5	14.2	18.1	378

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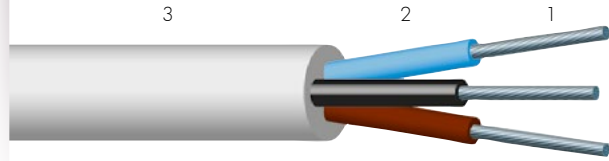
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SILICABLE® MC-EFEP

-60 °C to +200 °C



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

Applications

- Cabling for electrical heating appliances.
 - Use in the medical field as cabling for sterilisable surgical instruments.
 - Power cables for various industrial appliances.

Options

- Bare copper core: ref. MCFEP.
- Nickel-plated copper core: ref. MC-CNFEP.
- Silver-plated copper core: ref. MCAFEP.
 - Extra-flexible tin-plated copper core – class 6 as per IEC 60228: ref. MCFEP-ES.
- • Insulation: Fluorinated polymer PFA (improved thermal resistance of insulation): ref. MCFEPFA.
 - • Insulation: Fluorinated polymer ETFE (+1.55 °C in continuous operation - improved mechanical strength): ref. MCFEETFEP.
 - Other nominal cross-sections: 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: -60 °C to +200 °C.
- Good resistance to common chemical influences.

Electrical

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

Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colours: white, black, grey or brick red.

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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 – white numbered or black numbered	white numbered or black 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).

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.20	1.30	4.4	29.0
3 x 0.5	16 x 0.20	40.1	0.20	1.30	4.6	34.8
4 x 0.5	16 x 0.20	40.1	0.20	1.30	5.0	42.6
5 x 0.5	16 x 0.20	40.1	0.20	1.30	5.8	55.5
7 x 0.5	16 x 0.20	40.1	0.20	1.30	6.1	67.0
2 x 0.75	24 x 0.20	26.7	0.20	1.45	4.9	37.5
3 x 0.75	24 x 0.20	26.7	0.20	1.45	5.2	46.5
4 x 0.75	24 x 0.20	26.7	0.20	1.45	6.0	61.8
5 x 0.75	24 x 0.20	26.7	0.20	1.45	6.5	73.4
7 x 0.75	24 x 0.20	26.7	0.20	1.45	7.0	92.0
2 x 1	32 x 0.20	20.0	0.25	1.70	5.1	43.2
3 x 1	32 x 0.20	20.0	0.25	1.70	5.4	54.1
4 x 1	32 x 0.20	20.0	0.25	1.70	6.2	71.4
5 x 1	32 x 0.20	20.0	0.25	1.70	6.7	84.7
7 x 1	32 x 0.20	20.0	0.25	1.70	7.3	109
2 x 1.5	30 x 0.25	13.7	0.30	1.95	5.7	56.6
3 x 1.5	30 x 0.25	13.7	0.30	1.95	6.1	72.6
4 x 1.5	30 x 0.25	13.7	0.30	1.95	6.8	92.6
5 x 1.5	30 x 0.25	13.7	0.30	1.95	7.5	113
7 x 1.5	30 x 0.25	13.7	0.30	1.95	8.0	143
2 x 2.5	50 x 0.25	8.21	0.30	2.50	7.0	88.4
3 x 2.5	50 x 0.25	8.21	0.30	2.50	7.4	113
4 x 2.5	50 x 0.25	8.21	0.30	2.50	8.2	143
5 x 2.5	50 x 0.25	8.21	0.30	2.50	8.9	171
7 x 2.5	50 x 0.25	8.21	0.30	2.50	9.8	225

For this product, please contact:

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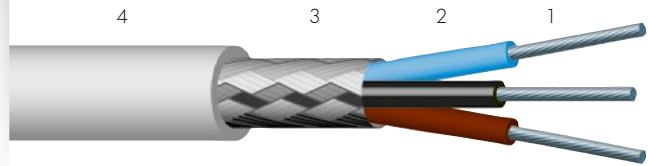
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LES CABLES DE L'EXTREME

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SILICABLE® MCBE-EFEP

-60 °C to +200 °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: Silicone rubber.

Applications

- Cabling for electrical heating appliances.
 - Use in the medical field as cabling for sterilisable surgical instruments.
- Power cables for various industrial appliances.

Options

- Bare copper core: ref. MCBE-FEP.
- Nickel-plated copper core: ref. MCBE-CNFEP.
- Silver-plated copper core: ref. MCBE-AFEP.
 - Extra-flexible tin-plated copper core – class 6 as per IEC 60228: ref. MCBE-EFEP-ES.
- Electrical shielding: Aluminium/PET tape + continuity wire: ref. MCBA-EFEP.
- Insulation: Fluorinated polymer PFA (improved thermal resistance of insulation): ref. MCBE-EPFA.
 - Insulation: Fluorinated polymer ETFE (+155 °C in continuous operation - improved mechanical strength): ref. MCBE-EETFE.
- Other nominal cross-sections: 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: -60 °C to +200 °C.
- Good resistance to common chemical influences.

Electrical

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

Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colours: white, black, grey or brick red.

Standard conductor colours:

Number of conductors	Standard conductor colours:	
	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 – white numbered or black numbered	white numbered or black 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).

For this product, please contact:

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.20	1.30	4.8	37.8
3 x 0.5	16 x 0.20	40.1	0.20	1.30	5.0	44.6
4 x 0.5	16 x 0.20	40.1	0.20	1.30	5.4	53.5
5 x 0.5	16 x 0.20	40.1	0.20	1.30	6.0	65.1
7 x 0.5	16 x 0.20	40.1	0.20	1.30	6.6	85.6
2 x 0.75	24 x 0.20	26.7	0.20	1.45	5.3	47.3
3 x 0.75	24 x 0.20	26.7	0.20	1.45	5.7	58.7
4 x 0.75	24 x 0.20	26.7	0.20	1.45	6.0	68.5
5 x 0.75	24 x 0.20	26.7	0.20	1.45	6.5	81.0
7 x 0.75	24 x 0.20	26.7	0.20	1.45	7.0	105
2 x 1	32 x 0.20	20.0	0.25	1.70	5.7	56.4
3 x 1	32 x 0.20	20.0	0.25	1.70	6.0	68.8
4 x 1	32 x 0.20	20.0	0.25	1.70	6.8	91.6
5 x 1	32 x 0.20	20.0	0.25	1.70	7.3	107
7 x 1	32 x 0.20	20.0	0.25	1.70	7.9	140
2 x 1.5	30 x 0.25	13.7	0.30	1.95	6.7	77.5
3 x 1.5	30 x 0.25	13.7	0.30	1.95	7.0	94.0
4 x 1.5	30 x 0.25	13.7	0.30	1.95	7.8	122
5 x 1.5	30 x 0.25	13.7	0.30	1.95	8.4	144
7 x 1.5	30 x 0.25	13.7	0.30	1.95	9.0	179
2 x 2.5	50 x 0.25	8.21	0.30	2.50	8.1	119
3 x 2.5	50 x 0.25	8.21	0.30	2.50	8.5	147
4 x 2.5	50 x 0.25	8.21	0.30	2.50	9.1	177
5 x 2.5	50 x 0.25	8.21	0.30	2.50	9.9	211
7 x 2.5	50 x 0.25	8.21	0.30	2.50	10.9	272

For this product, please contact:

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LES CABLES DE L'EXTREME

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® 150 °C

Silicone insulation
Silicone sheathing
UL and cUL approval



Characteristics

General

- Continuous operating temperatures: -60 °C to +150 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- Single conductors: UL and cUL approved silicone insulated conductors (≥ 150 °C).
- Standard outer sheath colours: black or brick red.
- 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.
- "Horizontal flame test" as per UL approval.
- "Cable flame test" as per UL approval (AWM II A/B only).
- "FT2 flame rating" as per cUL approval.
- "FT1 flame rating" as per cUL approval (AWM II A/B only).
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Output cables for household and professional electrical heating appliances.
- Cabling for electrical heating appliances, etc.

Options

- Other numbers of conductors and nominal cross-sections: contact us.
- Other colours: contact us.
- Electrical shielding: contact us.
- VW-1 Vertical flame test for Style 4389-S150: contact us.

KEY

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

For this product, please contact:

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SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • UL and cUL approved conductors with a silicone insulation.
- 2 • Outer sheath: Silicone rubber.

Style no. **4389-S150**

Approval

150 °C - 600 V
AWM II A/B
(Wall 1.14 mm)

Style no. **4476-S150**

150 °C - 300 V

Internal wiring External wiring

No. of cond.	Nominal cross-section		150 °C - 600 V		150 °C - 300 V		
	AWG	(mm ²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	2.0	6.2	1.2	3.9	4.6
3	26	0.13	2.0	6.6	1.2	4.1	4.8
4	26	0.13	2.0	7.1	1.2	4.4	5.1
5	26	0.13	2.0	7.6	1.2	4.7	5.5
7	26	0.13	2.0	8.2	1.2	5.1	5.8
2	24	0.22	2.2	6.6	1.4	4.3	5.0
3	24	0.22	2.2	7.0	1.4	4.5	5.3
4	24	0.22	2.2	7.5	1.4	4.8	5.6
5	24	0.22	2.2	8.2	1.4	5.3	6.0
7	24	0.22	2.2	8.8	1.4	5.7	6.4
2	22	0.34	2.35	6.9	1.55	4.6	5.3
3	22	0.34	2.35	7.3	1.55	4.8	5.6
4	22	0.34	2.35	7.9	1.55	5.2	6.0
5	22	0.34	2.35	8.6	1.55	5.7	6.4
7	22	0.34	2.35	9.3	1.55	6.1	6.9
2	-	0.5	2.5	7.2	1.7	4.9	5.6
3	-	0.5	2.5	7.6	1.7	5.1	5.9
4	-	0.5	2.5	8.3	1.7	5.6	6.3
5	-	0.5	2.5	9.0	1.7	6.1	6.8
7	-	0.5	2.5	9.7	1.7	6.6	7.3
2	20	0.6	2.5	7.2	1.75	5.0	5.7
3	20	0.6	2.5	7.6	1.75	5.3	6.0
4	20	0.6	2.5	8.3	1.75	5.7	6.5
5	20	0.6	2.5	9.0	1.75	6.2	7.0
7	20	0.6	2.5	9.7	1.75	6.7	7.5
2	-	0.75	2.7	7.6	1.9	5.3	6.0
3	-	0.75	2.7	8.1	1.9	5.6	6.3
4	-	0.75	2.7	8.7	1.9	6.1	6.8
5	-	0.75	2.7	9.5	1.9	6.6	7.4
7	-	0.75	2.7	10.3	1.9	7.2	7.9
2	18	0.93	2.8	7.8	2.0	5.5	6.2
3	18	0.93	2.8	8.3	2.0	5.8	6.6
4	18	0.93	2.8	9.0	2.0	6.3	7.1
5	18	0.93	2.8	9.8	2.0	6.9	7.6
7	18	0.93	2.8	10.6	2.0	7.5	8.2
2	-	1	2.9	8.0	2.1	5.7	6.4
3	-	1	2.9	8.5	2.1	6.0	6.8
4	-	1	2.9	9.2	2.1	6.5	7.3
5	-	1	2.9	10.1	2.1	7.1	7.9
7	-	1	2.9	10.9	2.1	7.8	8.5
2	16	1.34	3.1	8.4	2.3	6.1	6.8
3	16	1.34	3.1	8.9	2.3	6.4	7.2
4	16	1.34	3.1	9.7	2.3	7.0	7.8
5	16	1.34	3.1	10.6	2.3	7.7	8.4
7	16	1.34	3.1	11.5	2.3	8.4	9.1
2	-	1.5	3.2	8.6	2.4	6.3	7.0
3	-	1.5	3.2	9.2	2.4	6.7	7.4
4	-	1.5	3.2	10.0	2.4	7.3	8.0
5	-	1.5	3.2	10.9	2.4	8.0	8.7
7	-	1.5	3.2	11.8	2.4	8.7	9.4
2	14	-	3.4	9.0	2.65	6.8	7.5
3	14	-	3.4	9.6	2.65	7.2	8.0
4	14	-	3.4	10.4	2.65	7.9	8.6
5	14	-	3.4	11.4	2.65	8.6	9.4
7	14	-	3.4	12.4	2.65	9.4	10.2

Conducting metal

BCDEFG

BCDEFG

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Style no.			4476-S150			4476-S150		
Approval			150 °C - 600 V			150 °C - 1 000 V (cUL 600 V)		
			AWM I A (Wall 0.76 mm)		AWM II A/B (Wall 1.14 mm)	AWM I A (Wall 0.76 mm)		AWM II A/B (Wall 1.14 mm)
No. of cond.	AWG	Nominal cross-section (mm ²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	2.0	5.5	6.2	2.8	7.1	7.8
3	26	0.13	2.0	5.8	6.6	2.8	7.5	8.3
4	26	0.13	2.0	6.3	7.1	2.8	8.2	9.0
5	26	0.13	2.0	6.9	7.6	2.8	9.0	9.8
7	26	0.13	2.0	7.5	8.2	2.8	9.9	10.6
2	24	0.22	2.2	5.9	6.6	2.9	7.3	8.0
3	24	0.22	2.2	6.2	7.0	2.9	7.7	8.5
4	24	0.22	2.2	6.8	7.5	2.9	8.5	9.2
5	24	0.22	2.2	7.4	8.2	2.9	9.3	10.1
7	24	0.22	2.2	8.1	8.8	2.9	10.2	10.9
2	22	0.34	2.35	6.2	6.9	3.05	7.6	8.3
3	22	0.34	2.35	6.5	7.3	3.05	8.1	8.8
4	22	0.34	2.35	7.1	7.9	3.05	8.8	9.6
5	22	0.34	2.35	7.8	8.6	3.05	9.7	10.5
7	22	0.34	2.35	8.5	9.3	3.05	10.6	11.4
2	-	0.5	2.5	6.5	7.2	3.2	7.9	8.6
3	-	0.5	2.5	6.9	7.6	3.2	8.4	9.2
4	-	0.5	2.5	7.5	8.3	3.2	9.2	10.0
5	-	0.5	2.5	8.2	9.0	3.2	10.1	10.9
7	-	0.5	2.5	9.0	9.7	3.2	11.1	11.8
2	20	0.6	2.5	6.5	7.2	3.4	8.3	9.0
3	20	0.6	2.5	6.9	7.6	3.4	8.8	9.6
4	20	0.6	2.5	7.5	8.3	3.4	9.7	10.4
5	20	0.6	2.5	8.2	9.0	3.4	10.7	11.4
7	20	0.6	2.5	9.0	9.7	3.4	11.7	12.4
2	-	0.75	2.7	6.9	7.6	3.5	8.5	9.2
3	-	0.75	2.7	7.3	8.1	3.5	9.0	9.8
4	-	0.75	2.7	8.0	8.7	3.5	9.9	10.7
5	-	0.75	2.7	8.8	9.5	3.5	10.9	11.7
7	-	0.75	2.7	9.6	10.3	3.5	12.0	12.7
2	18	0.93	2.8	7.1	7.8	3.6	8.7	9.4
3	18	0.93	2.8	7.5	8.3	3.6	9.3	10.0
4	18	0.93	2.8	8.2	9.0	3.6	10.2	10.9
5	18	0.93	2.8	9.0	9.8	3.6	11.2	12.0
7	18	0.93	2.8	9.9	10.6	3.6	12.3	13.0
2	-	1	2.9	7.3	8.0	3.7	8.9	9.6
3	-	1	2.9	7.7	8.5	3.7	9.5	10.2
4	-	1	2.9	8.5	9.2	3.7	10.4	11.2
5	-	1	2.9	9.3	10.1	3.7	11.5	12.2
7	-	1	2.9	10.2	10.9	3.7	12.6	13.3
2	16	1.34	3.1	7.7	8.4	3.8	9.1	9.8
3	16	1.34	3.1	8.2	8.9	3.8	9.7	10.4
4	16	1.34	3.1	9.0	9.7	3.8	10.6	11.4
5	16	1.34	3.1	9.9	10.6	3.8	11.7	12.5
7	16	1.34	3.1	10.8	11.5	3.8	12.9	13.6
2	-	1.5	3.2	7.9	8.6	4.0	9.5	10.2
3	-	1.5	3.2	8.4	9.2	4.0	10.1	10.9
4	-	1.5	3.2	9.2	10.0	4.0	11.1	11.9
5	-	1.5	3.2	10.1	10.9	4.0	12.3	13.0
7	-	1.5	3.2	11.1	11.8	4.0	13.5	14.2
2	14	-	3.4	8.3	9.0	4.3	10.1	10.8
3	14	-	3.4	8.8	9.6	4.3	10.8	11.5
4	14	-	3.4	9.7	10.4	4.3	11.8	12.6
5	14	-	3.4	10.7	11.4	4.3	13.1	13.9
7	14	-	3.4	11.7	12.4	4.3	14.4	15.1

Conducting metal

BCDEFG

BCDEFG

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® 200 °C

Silicone insulation
Silicone sheathing
UL and cUL approval



Characteristics General

- Continuous operating temperatures: -60 °C to +200 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- Single conductors: UL and cUL approved silicone insulated conductors (≥ 200 °C).
- Standard outer sheath colours: black or brick red.
- 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.
- "Horizontal flame test" as per UL approval.
- "Cable flame test" as per UL approval (AWM II A/B only).
- "FT2 flame rating" as per cUL approval.
- "FT1 flame rating" as per cUL approval (AMW II A/B only).
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Output cables for household and professional electrical heating appliances.
- Cabling for electrical heating appliances, etc.

Options

- Other numbers of conductors and nominal cross-sections: contact us.
- Other colours: contact us.
- Electrical shielding: contact us.
- VW-1 Vertical flame test for Style 4389-S200: contact us.

KEY

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

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

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

■: UL approved nominal cross-sections only.

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

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

For this product, please contact:

OMERIN division principale

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Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com



SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • UL and cUL approved conductors with a silicone insulation.
- 2 • Outer sheath: Silicone rubber.

Style no. **4389-S200**

Approval

200 °C - 600 V

AWM II A/B
(Wall 1.14 mm)

Style no. **4421-S200**

Approval

200 °C - 600 V

AWM II A/B
(Wall 1.52 mm)

No. of cond.	Nominal cross-section		Nominal diameter of the cond.* (mm)		Nominal diameter of the cable* (mm)	
	AWG	(mm ²)				
2	26	0.13	2.0	6.2	2.0	7.0
3	26	0.13	2.0	6.6	2.0	7.3
4	26	0.13	2.0	7.1	2.0	7.8
5	26	0.13	2.0	7.6	2.0	8.4
7	26	0.13	2.0	8.2	2.0	9.0
2	24	0.22	2.1	6.4	2.1	7.2
3	24	0.22	2.1	6.8	2.1	7.5
4	24	0.22	2.1	7.3	2.1	8.1
5	24	0.22	2.1	7.9	2.1	8.7
7	24	0.22	2.1	8.5	2.1	9.3
2	22	0.34	2.4	7.0	2.4	7.8
3	22	0.34	2.4	7.4	2.4	8.2
4	22	0.34	2.4	8.0	2.4	8.8
5	22	0.34	2.4	8.7	2.4	9.5
7	22	0.34	2.4	9.4	2.4	10.2
2	-	0.5	2.5	7.2	2.5	8.0
3	-	0.5	2.5	7.6	2.5	8.4
4	-	0.5	2.5	8.3	2.5	9.0
5	-	0.5	2.5	9.0	2.5	9.8
7	-	0.5	2.5	9.7	2.5	10.5
2	20	0.6	2.6	7.4	2.6	8.2
3	20	0.6	2.6	7.9	2.6	8.6
4	20	0.6	2.6	8.5	2.6	9.3
5	20	0.6	2.6	9.3	2.6	10.0
7	20	0.6	2.6	10.0	2.6	10.8
2	-	0.75	2.65	7.5	2.65	8.3
3	-	0.75	2.65	8.0	2.65	8.7
4	-	0.75	2.65	8.6	2.65	9.4
5	-	0.75	2.65	9.4	2.65	10.2
7	-	0.75	2.65	10.2	2.65	11.0
2	18	0.93	2.7	7.6	2.7	8.4
3	18	0.93	2.7	8.1	2.7	8.8
4	18	0.93	2.7	8.7	2.7	9.5
5	18	0.93	2.7	9.5	2.7	10.3
7	18	0.93	2.7	10.3	2.7	11.1
2	-	1	2.8	7.8	2.8	8.6
3	-	1	2.8	8.3	2.8	9.0
4	-	1	2.8	9.0	2.8	9.7
5	-	1	2.8	9.8	2.8	10.6
7	-	1	2.8	10.6	2.8	11.4
2	16	1.34	3.05	8.3	3.05	9.1
3	16	1.34	3.05	8.8	3.05	9.6
4	16	1.34	3.05	9.6	3.05	10.4
5	16	1.34	3.05	10.5	3.05	11.2
7	16	1.34	3.05	11.4	3.05	12.2
2	-	1.5	3.1	8.4	3.1	9.2
3	-	1.5	3.1	8.9	3.1	9.7
4	-	1.5	3.1	9.7	3.1	10.5
5	-	1.5	3.1	10.6	3.1	11.4
7	-	1.5	3.1	11.5	3.1	12.3
2	14	-	3.6	9.4	3.6	10.2
3	14	-	3.6	10.0	3.6	10.8
4	14	-	3.6	10.9	3.6	11.7
5	14	-	3.6	12.0	3.6	12.7
7	14	-	3.6	13.0	3.6	13.8

Conducting metal

B*CDEF*G

B*CDEF*G

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Style no.			4476-S200			4476-S200			4476-S200		
Approval			200 °C - 300 V			200 °C - 600 V			200 °C - 1 000 V (cUL 600 V)		
			AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)		AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)		AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)	
No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	1.2	3.9	4.6	2.0	5.5	6.2	2.0	5.5	6.2
3	26	0.13	1.2	4.1	4.8	2.0	5.8	6.6	2.0	5.8	6.6
4	26	0.13	1.2	4.4	5.1	2.0	6.3	7.1	2.0	6.3	7.1
5	26	0.13	1.2	4.7	5.5	2.0	6.9	7.6	2.0	6.9	7.6
7	26	0.13	1.2	5.1	5.8	2.0	7.5	8.2	2.0	7.5	8.2
2	24	0.22	1.4	4.3	5.0	2.1	5.7	6.4	2.1	5.7	6.4
3	24	0.22	1.4	4.5	5.3	2.1	6.0	6.8	2.1	6.0	6.8
4	24	0.22	1.4	4.8	5.6	2.1	6.5	7.3	2.1	6.5	7.3
5	24	0.22	1.4	5.3	6.0	2.1	7.2	7.9	2.1	7.2	7.9
7	24	0.22	1.4	5.7	6.4	2.1	7.8	8.5	2.1	7.8	8.5
2	22	0.34	1.6	4.7	5.4	2.4	6.3	7.0	2.4	6.3	7.0
3	22	0.34	1.6	4.9	5.7	2.4	6.7	7.4	2.4	6.7	7.4
4	22	0.34	1.6	5.3	6.1	2.4	7.3	8.0	2.4	7.3	8.0
5	22	0.34	1.6	5.8	6.6	2.4	8.0	8.7	2.4	8.0	8.7
7	22	0.34	1.6	6.3	7.0	2.4	8.7	9.4	2.4	8.7	9.4
2	-	0.5	1.7	4.9	5.6	2.5	6.5	7.2	2.5	6.5	7.2
3	-	0.5	1.7	5.1	5.9	2.5	6.9	7.6	2.5	6.9	7.6
4	-	0.5	1.7	5.6	6.3	2.5	7.5	8.3	2.5	7.5	8.3
5	-	0.5	1.7	6.1	6.8	2.5	8.2	9.0	2.5	8.2	9.0
7	-	0.5	1.7	6.6	7.3	2.5	9.0	9.7	2.5	9.0	9.7
2	20	0.6	1.8	5.1	5.8	2.6	6.7	7.4	2.6	6.7	7.4
3	20	0.6	1.8	5.4	6.1	2.6	7.1	7.9	2.6	7.1	7.9
4	20	0.6	1.8	5.8	6.6	2.6	7.7	8.5	2.6	7.7	8.5
5	20	0.6	1.8	6.3	7.1	2.6	8.5	9.3	2.6	8.5	9.3
7	20	0.6	1.8	6.9	7.6	2.6	9.3	10.0	2.6	9.3	10.0
2	-	0.75	1.9	5.3	6.0	2.65	6.8	7.5	2.65	6.8	7.5
3	-	0.75	1.9	5.6	6.3	2.65	7.2	8.0	2.65	7.2	8.0
4	-	0.75	1.9	6.1	6.8	2.65	7.9	8.6	2.65	7.9	8.6
5	-	0.75	1.9	6.6	7.4	2.65	8.6	9.4	2.65	8.6	9.4
7	-	0.75	1.9	7.2	7.9	2.65	9.4	10.2	2.65	9.4	10.2
2	18	0.93	2.0	5.5	6.2	2.7	6.9	7.6	2.8	7.1	7.8
3	18	0.93	2.0	5.8	6.6	2.7	7.3	8.1	2.8	7.5	8.3
4	18	0.93	2.0	6.3	7.1	2.7	8.0	8.7	2.8	8.2	9.0
5	18	0.93	2.0	6.9	7.6	2.7	8.8	9.5	2.8	9.0	9.8
7	18	0.93	2.0	7.5	8.2	2.7	9.6	10.3	2.8	9.9	10.6
2	-	1	2.1	5.7	6.4	2.8	7.1	7.8	2.8	7.1	7.8
3	-	1	2.1	6.0	6.8	2.8	7.5	8.3	2.8	7.5	8.3
4	-	1	2.1	6.5	7.3	2.8	8.2	9.0	2.8	8.2	9.0
5	-	1	2.1	7.1	7.9	2.8	9.0	9.8	2.8	9.0	9.8
7	-	1	2.1	7.8	8.5	2.8	9.9	10.6	2.8	9.9	10.6
2	16	1.34	-	-	-	3.05	7.6	8.3	3.05	7.6	8.3
3	16	1.34	-	-	-	3.05	8.1	8.8	3.05	8.1	8.8
4	16	1.34	-	-	-	3.05	8.8	9.6	3.05	8.8	9.6
5	16	1.34	-	-	-	3.05	9.7	10.5	3.05	9.7	10.5
7	16	1.34	-	-	-	3.05	10.6	11.4	3.05	10.6	11.4
2	-	1.5	-	-	-	3.1	7.7	8.4	3.1	7.7	8.4
3	-	1.5	-	-	-	3.1	8.2	8.9	3.1	8.2	8.9
4	-	1.5	-	-	-	3.1	9.0	9.7	3.1	9.0	9.7
5	-	1.5	-	-	-	3.1	9.9	10.6	3.1	9.9	10.6
7	-	1.5	-	-	-	3.1	10.8	11.5	3.1	10.8	11.5
2	14	-	-	-	-	3.6	8.7	9.4	3.5	8.5	9.2
3	14	-	-	-	-	3.6	9.3	10.0	3.5	9.0	9.8
4	14	-	-	-	-	3.6	10.2	10.9	3.5	9.9	10.7
5	14	-	-	-	-	3.6	11.2	12.0	3.5	10.9	11.7
7	14	-	-	-	-	3.6	12.3	13.0	3.5	12.0	12.7

Conducting metal

B*CDEG

B*CDEF*G

B*CDEF*G

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SILICABLE® 150 °C

Fluoropolymer insulation
Silicone sheathing
UL and cUL approval



Characteristics

General

- Continuous operating temperatures: -60 °C to +150 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- Single conductors: UL and cUL approved fluoropolymer insulated conductors (≥ 150 °C).
- Standard outer sheath colours: black or brick red.
- 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.
- "Horizontal flame test" as per UL approval.
- "Cable flame test" as per UL approval (AWM I A/B only).
- "FT2 flame rating" as per cUL approval.
- "FT1 flame rating" as per cUL approval (AWM II A/B only).

Applications

- Output cables for household and professional electrical heating appliances.
- Cabling for electrical heating appliances, etc.

Options

- Other numbers of conductors and nominal cross-sections: contact us.
- Other colours: contact us.
- Electrical shielding: contact us.
- VW-1 Vertical flame test for Style 4389-E150: contact us.

KEY

- Conducting metals
- B** Tin-plated copper
- B*** Tin-plated copper (ø > 0,38 mm)
- C** Nickel-plated copper
- D** Silver-plated copper
- E** Nickel
- F** Bare copper
- F*** Bare copper (ø > 0,38 mm)
- G** Nickel-plated copper 27 %

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

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

■: UL approved nominal cross-sections only.

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

For this product, please contact:

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silisol@omerin.com



SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • UL and cUL approved conductors with fluoropolymer insulation.
- 2 • Outer sheath: Silicone rubber.

Style no.
Insulation
Approval

4476-E150
ETFE

150 °C - 300 V

AWM I A
(Wall 0.76 mm)

AWM II A/B
(Wall 1.14 mm)

No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	0.75	3.0	3.7
3	26	0.13	0.75	3.1	3.9
4	26	0.13	0.75	3.3	4.1
5	26	0.13	0.75	3.5	4.3
7	26	0.13	0.75	3.7	4.5
2	24	0.22	0.9	3.3	4.0
3	24	0.22	0.9	3.4	4.2
4	24	0.22	0.9	3.7	4.4
5	24	0.22	0.9	3.9	4.7
7	24	0.22	0.9	4.2	5.0
2	22	0.34	1.05	3.6	4.3
3	22	0.34	1.05	3.8	4.5
4	22	0.34	1.05	4.0	4.8
5	22	0.34	1.05	4.3	5.1
7	22	0.34	1.05	4.6	5.4
2	-	0.5	1.25	4.0	4.7
3	-	0.5	1.25	4.2	4.9
4	-	0.5	1.25	4.5	5.3
5	-	0.5	1.25	4.9	5.6
7	-	0.5	1.25	5.2	6.0
2	20	0.6	1.3	4.1	4.8
3	20	0.6	1.3	4.3	5.1
4	20	0.6	1.3	4.6	5.4
5	20	0.6	1.3	5.0	5.8
7	20	0.6	1.3	5.4	6.1
2	-	0.75	1.4	4.3	5.0
3	-	0.75	1.4	4.5	5.3
4	-	0.75	1.4	4.9	5.6
5	-	0.75	1.4	5.3	6.0
7	-	0.75	1.4	5.7	6.4
2	18	0.93	1.55	4.6	5.3
3	18	0.93	1.55	4.8	5.6
4	18	0.93	1.55	5.2	6.0
5	18	0.93	1.55	5.7	6.4
7	18	0.93	1.55	6.1	6.9
2	-	1	1.65	4.8	5.5
3	-	1	1.65	5.1	5.8
4	-	1	1.65	5.5	6.2
5	-	1	1.65	6.0	6.7
7	-	1	1.65	6.4	7.2
2	16	1.34	1.9	5.3	6.0
3	16	1.34	1.9	5.6	6.3
4	16	1.34	1.9	6.1	6.8
5	16	1.34	1.9	6.6	7.4
7	16	1.34	1.9	7.2	7.9
2	-	1.5	1.9	5.3	6.0
3	-	1.5	1.9	5.6	6.3
4	-	1.5	1.9	6.1	6.8
5	-	1.5	1.9	6.6	7.4
7	-	1.5	1.9	7.2	7.9
2	14	-	2.25	6.0	6.7
3	14	-	2.25	6.3	7.1
4	14	-	2.25	6.9	7.7
5	14	-	2.25	7.6	8.3
7	14	-	2.25	8.2	9.0

Conducting metal

BCDEG

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Style no. Insulation Approval			4476-E150 ETFE 150 °C - 600 V AWM I A (Wall 0.76 mm)				ETFE "Thin-wall" 150 °C - 600 V AWM I A (Wall 0.76 mm)				4389-E150 ETFE 150 °C - 600 V AWM II A/B (Wall 1.14 mm)				ETFE "Thin-wall" 150 °C - 600 V AWM II A/B (Wall 1.14 mm)				4476-E150 ETFE 150 °C - 1 000 V (cUL 600 V) AWM I A (Wall 0.76 mm)			AWM II A/B (Wall 1.14 mm)		
No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)						
2	26	0.13	1.05	3.6	-	-	1.05	4.3	-	-	1.55	4.6	5.3											
3	26	0.13	1.05	3.8	-	-	1.05	4.5	-	-	1.55	4.8	5.6											
4	26	0.13	1.05	4.0	-	-	1.05	4.8	-	-	1.55	5.2	6.0											
5	26	0.13	1.05	4.3	-	-	1.05	5.1	-	-	1.55	5.7	6.4											
7	26	0.13	1.05	4.6	-	-	1.05	5.4	-	-	1.55	6.1	6.9											
2	24	0.22	1.15	3.8	0.9	3.3	1.15	4.5	0.9	4.0	1.65	4.8	5.5											
3	24	0.22	1.15	4.0	0.9	3.4	1.15	4.7	0.9	4.2	1.65	5.0	5.8											
4	24	0.22	1.15	4.3	0.9	3.6	1.15	5.0	0.9	4.4	1.65	5.5	6.2											
5	24	0.22	1.15	4.6	0.9	3.9	1.15	5.3	0.9	4.7	1.65	5.9	6.7											
7	24	0.22	1.15	4.9	0.9	4.2	1.15	5.7	0.9	5.0	1.65	6.4	7.2											
2	22	0.34	1.3	4.1	1.05	3.6	1.3	4.8	1.05	4.3	1.8	5.1	5.8											
3	22	0.34	1.3	4.3	1.05	3.7	1.3	5.1	1.05	4.5	1.8	5.4	6.1											
4	22	0.34	1.3	4.6	1.05	4.0	1.3	5.4	1.05	4.8	1.8	5.8	6.6											
5	22	0.34	1.3	5.0	1.05	4.3	1.3	5.8	1.05	5.1	1.8	6.3	7.1											
7	22	0.34	1.3	5.4	1.05	4.6	1.3	6.2	1.05	5.4	1.8	6.9	7.6											
2	-	0.5	1.4	4.3	1.25	4.0	1.4	5.0	1.25	4.7	1.95	5.4	6.1											
3	-	0.5	1.4	4.5	1.25	4.2	1.4	5.3	1.25	4.9	1.95	5.7	6.5											
4	-	0.5	1.4	4.9	1.25	4.5	1.4	5.6	1.25	5.3	1.95	6.2	6.9											
5	-	0.5	1.4	5.3	1.25	4.9	1.4	6.0	1.25	5.6	1.95	6.7	7.5											
7	-	0.5	1.4	5.7	1.25	5.2	1.4	6.4	1.25	6.0	1.95	7.3	8.1											
2	20	0.6	1.5	4.5	1.35	4.2	1.5	5.2	1.35	4.9	2.0	5.5	6.2											
3	20	0.6	1.5	4.7	1.35	4.4	1.5	5.5	1.35	5.2	2.0	5.8	6.6											
4	20	0.6	1.5	5.1	1.35	4.7	1.5	5.9	1.35	5.5	2.0	6.3	7.1											
5	20	0.6	1.5	5.5	1.35	5.1	1.5	6.3	1.35	5.9	2.0	6.9	7.6											
7	20	0.6	1.5	6.0	1.35	5.5	1.5	6.7	1.35	6.3	2.0	7.5	8.2											
2	-	0.75	1.55	4.6	1.4	4.3	1.55	5.3	1.4	5.0	2.1	5.7	6.4											
3	-	0.75	1.55	4.8	1.4	4.5	1.55	5.6	1.4	5.3	2.1	6.0	6.8											
4	-	0.75	1.55	5.2	1.4	4.9	1.55	6.0	1.4	5.6	2.1	6.5	7.3											
5	-	0.75	1.55	5.7	1.4	5.3	1.55	6.4	1.4	6.0	2.1	7.2	7.9											
7	-	0.75	1.55	6.1	1.4	5.7	1.55	6.9	1.4	6.4	2.1	7.8	8.5											
2	18	0.93	1.8	5.1	1.55	4.6	1.8	5.8	1.55	5.3	2.25	6.0	6.7											
3	18	0.93	1.8	5.4	1.55	4.8	1.8	6.1	1.55	5.6	2.25	6.3	7.1											
4	18	0.93	1.8	5.8	1.55	5.2	1.8	6.6	1.55	6.0	2.25	6.9	7.7											
5	18	0.93	1.8	6.3	1.55	5.7	1.8	7.1	1.55	6.4	2.25	7.6	8.3											
7	18	0.93	1.8	6.9	1.55	6.1	1.8	7.6	1.55	6.9	2.25	8.2	9.0											
2	-	1	1.8	5.1	1.65	4.8	1.8	5.8	1.65	5.5	2.3	6.1	6.8											
3	-	1	1.8	5.4	1.65	5.0	1.8	6.1	1.65	5.8	2.3	6.4	7.2											
4	-	1	1.8	5.8	1.65	5.5	1.8	6.6	1.65	6.2	2.3	7.0	7.8											
5	-	1	1.8	6.3	1.65	5.9	1.8	7.1	1.65	6.7	2.3	7.7	8.5											
7	-	1	1.8	6.9	1.65	6.4	1.8	7.6	1.65	7.2	2.3	8.4	9.1											
2	16	1.34	2.0	5.5	1.9	5.3	2.0	6.2	1.9	6.0	2.5	6.5	7.2											
3	16	1.34	2.0	5.8	1.9	5.6	2.0	6.6	1.9	6.3	2.5	6.9	7.6											
4	16	1.34	2.0	6.3	1.9	6.1	2.0	7.1	1.9	6.8	2.5	7.5	8.3											
5	16	1.34	2.0	6.9	1.9	6.6	2.0	7.6	1.9	7.4	2.5	8.2	9.0											
7	16	1.34	2.0	7.5	1.9	7.2	2.0	8.2	1.9	7.9	2.5	9.0	9.7											
2	-	1.5	2.0	5.5	1.9	5.3	2.0	6.2	1.9	6.0	2.55	6.6	7.3											
3	-	1.5	2.0	5.8	1.9	5.6	2.0	6.6	1.9	6.3	2.55	7.0	7.7											
4	-	1.5	2.0	6.3	1.9	6.1	2.0	7.1	1.9	6.8	2.55	7.6	8.4											
5	-	1.5	2.0	6.9	1.9	6.6	2.0	7.6	1.9	7.4	2.55	8.4	9.1											
7	-	1.5	2.0	7.5	1.9	7.2	2.0	8.2	1.9	7.9	2.55	9.1	9.9											
2	14	-	2.4	6.3	2.25	6.0	2.4	7.0	2.25	6.7	2.85	7.2	7.9											
3	14	-	2.4	6.7	2.25	6.3	2.4	7.4	2.25	7.1	2.85	7.6	8.4											
4	14	-	2.4	7.3	2.25	6.9	2.4	8.0	2.25	7.7	2.85	8.3	9.1											
5	14	-	2.4	8.0	2.25	7.6	2.4	8.7	2.25	8.3	2.85	9.2	9.9											
7	14	-	2.4	8.7	2.25	8.2	2.4	9.4	2.25	9.0	2.85	10.0	10.8											

Conducting metal

BCDEFG

BCDEFG

BCDEFG

BCDEFG

BCDEFG

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® 200 °C

Fluoropolymer insulation
Silicone sheathing
UL and cUL approval



SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



- 1 • UL and cUL approved conductors with fluoropolymer insulation.
- 2 • Outer sheath: Silicone rubber.

Characteristics

- General**
- Continuous operating temperatures: -60 °C to +200 °C.
 - Good resistance to thermal shock and UV.
- Electrical**
- Rated voltage: as per style no.
 - Test voltage: 10 x Rated voltage.

Standard products

- Single conductors: UL and cUL approved fluoropolymer insulated conductors (≥ 200 °C).
- Standard outer sheath colours: black or brick red.
- 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.
- "Horizontal flame test" as per UL approval.
- "Cable flame test" as per UL approval (AWM II A/B only).
- "FT2 flame rating" as per cUL approval.
- "FT1 flame rating" as per cUL approval (AMW II A/B only).

Applications

- Output cables for household and professional electrical heating appliances.
- Cabling for electrical heating appliances, etc.

Options

- Other numbers of conductors and nominal cross-sections: contact us.
- Other colours: contact us.
- Electrical shielding: contact us.
- VW-1 Vertical flame test for Style 4389-F200: contact us.

KEY

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

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

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

■ : UL approved nominal cross-sections only.

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

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com



Style no.	Insulation	Approval	4476-F200 ETFE "Thin-wall"			4476-F200 FEP		
			200°C - 300 V			200°C - 300 V		
			AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)		AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)	
No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	0.8	3.1	3.8	0.9	3.3	4.0
3	26	0.13	0.8	3.2	4.0	0.9	3.4	4.2
4	26	0.13	0.8	3.4	4.2	0.9	3.7	4.4
5	26	0.13	0.8	3.6	4.4	0.9	3.9	4.7
7	26	0.13	0.8	3.9	4.6	0.9	4.2	4.9
2	24	0.22	0.9	3.3	4.0	1.0	3.5	4.2
3	24	0.22	0.9	3.4	4.2	1.0	3.6	4.4
4	24	0.22	0.9	3.7	4.4	1.0	3.9	4.7
5	24	0.22	0.9	3.9	4.7	1.0	4.2	4.9
7	24	0.22	0.9	4.3	5.0	1.0	4.5	5.2
2	22	0.34	1.05	3.6	4.3	1.15	3.8	4.5
3	22	0.34	1.05	3.8	4.5	1.15	4.0	4.7
4	22	0.34	1.05	4.0	4.8	1.15	4.3	5.0
5	22	0.34	1.05	4.3	5.1	1.15	4.6	5.3
7	22	0.34	1.05	4.6	5.4	1.15	4.9	5.7
2	-	0.5	1.25	4.0	4.7	1.3	4.1	4.8
3	-	0.5	1.25	4.2	4.9	1.3	4.3	5.0
4	-	0.5	1.25	4.5	5.3	1.3	4.6	5.4
5	-	0.5	1.25	4.9	5.6	1.3	5.0	5.8
7	-	0.5	1.25	5.2	6.0	1.3	5.4	6.1
2	20	0.6	1.3	4.1	4.8	1.4	4.3	5.0
3	20	0.6	1.3	4.3	5.1	1.4	4.5	5.3
4	20	0.6	1.3	4.6	5.4	1.4	4.9	5.6
5	20	0.6	1.3	5.0	5.8	1.4	5.3	6.0
7	20	0.6	1.3	5.4	6.1	1.4	5.7	6.4
2	-	0.75	1.4	4.3	5.0	1.75	5.0	5.7
3	-	0.75	1.4	4.5	5.3	1.75	5.3	6.0
4	-	0.75	1.4	4.9	5.6	1.75	5.7	6.5
5	-	0.75	1.4	5.3	6.0	1.75	6.2	7.0
7	-	0.75	1.4	5.7	6.4	1.75	6.7	7.5
2	18	0.93	1.55	4.6	5.3	1.9	5.3	6.0
3	18	0.93	1.55	4.8	5.6	1.9	5.6	6.3
4	18	0.93	1.55	5.2	6.0	1.9	6.1	6.8
5	18	0.93	1.55	5.7	6.4	1.9	6.6	7.4
7	18	0.93	1.55	6.1	6.9	1.9	7.2	7.9
2	-	1	1.65	4.8	5.5	1.95	5.4	6.1
3	-	1	1.65	5.0	5.8	1.95	5.7	6.5
4	-	1	1.65	5.5	6.2	1.95	6.2	6.9
5	-	1	1.65	5.9	6.7	1.95	6.7	7.5
7	-	1	1.65	6.4	7.2	1.95	7.3	8.1
2	16	1.34	1.9	5.3	6.0	2.2	5.9	6.6
3	16	1.34	1.9	5.6	6.3	2.2	6.2	7.0
4	16	1.34	1.9	6.1	6.8	2.2	6.8	7.5
5	16	1.34	1.9	6.6	7.4	2.2	7.4	8.2
7	16	1.34	1.9	7.2	7.9	2.2	8.1	8.8
2	-	1.5	1.9	5.3	6.0	2.2	5.9	6.6
3	-	1.5	1.9	5.6	6.3	2.2	6.2	7.0
4	-	1.5	1.9	6.1	6.8	2.2	6.8	7.5
5	-	1.5	1.9	6.6	7.4	2.2	7.4	8.2
7	-	1.5	1.9	7.2	7.9	2.2	8.1	8.8
2	14	-	2.25	6.0	6.7	2.5	6.5	7.2
3	14	-	2.25	6.3	7.1	2.5	6.9	7.6
4	14	-	2.25	6.9	7.7	2.5	7.5	8.3
5	14	-	2.25	7.6	8.3	2.5	8.2	9.0
7	14	-	2.25	8.2	9.0	2.5	9.0	9.7

Conducting metal

B*CDEF*G

B*CDEF*G

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Style no.
Insulation
Approval

4476-F200
ETFE "Thin-wall"

4389-F200
ETFE "Thin-wall"

4476-F200
FEP "Thin-wall"

4389-F200
FEP "Thin-wall"

4476-F200
FEP

4389-F200
FEP

4476-F200
FEP

200 °C – 600 V
AWM I A
(Wall 0.76 mm)

200 °C – 600 V
AWM II A/B
(Wall 1.14 mm)

200 °C – 600 V
AWM I A
(Wall 0.76 mm)

200 °C – 600 V
AWM II A/B
(Wall 1.14 mm)

200 °C – 600 V
AWM I A
(Wall 0.76 mm)

200 °C – 600 V
AWM II A/B
(Wall 1.14 mm)

200 °C – 1000 V
AWM I A
(Wall 0.76 mm) AWM II A/B
(Wall 1.14 mm)

Nominal cross-section			Nominal diameter of the cond.*		Nominal diameter of the cable*		Nominal diameter of the cond.*		Nominal diameter of the cable*		Nominal diameter of the cond.*		Nominal diameter of the cable*		Nominal diameter of the cond.*		Nominal diameter of the cable*		Nominal diameter of the cond.*		Nominal diameter of the cable*	
No. of cond.	AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
2	26	0.13	1.0	3.5	1.0	4.2	0.9	3.3	0.9	4.0	1.2	3.9	1.2	4.6	1.5	4.5	5.2					
3	26	0.13	1.0	3.6	1.0	4.4	0.9	3.4	0.9	4.2	1.2	4.1	1.2	4.8	1.5	4.7	5.5					
4	26	0.13	1.0	3.9	1.0	4.7	0.9	3.6	0.9	4.4	1.2	4.4	1.2	5.1	1.5	5.1	5.9					
5	26	0.13	1.0	4.2	1.0	4.9	0.9	3.9	0.9	4.7	1.2	4.7	1.2	5.5	1.5	5.5	6.3					
7	26	0.13	1.0	4.5	1.0	5.2	0.9	4.2	0.9	4.9	1.2	5.1	1.2	5.8	1.5	6.0	6.7					
2	24	0.22	1.1	3.7	1.1	4.4	1.0	3.5	1.0	4.2	1.35	4.2	1.35	4.9	1.65	4.8	5.5					
3	24	0.22	1.1	3.9	1.1	4.6	1.0	3.6	1.0	4.4	1.35	4.4	1.35	5.2	1.65	5.0	5.8					
4	24	0.22	1.1	4.1	1.1	4.9	1.0	3.9	1.0	4.7	1.35	4.7	1.35	5.5	1.65	5.5	6.2					
5	24	0.22	1.1	4.5	1.1	5.2	1.0	4.2	1.0	4.9	1.35	5.1	1.35	5.9	1.65	5.9	6.7					
7	24	0.22	1.1	4.8	1.1	5.5	1.0	4.5	1.0	5.2	1.35	5.5	1.35	6.3	1.65	6.4	7.2					
2	22	0.34	1.25	4.0	1.25	4.7	1.15	3.8	1.15	4.5	1.45	4.4	1.45	5.1	1.8	5.1	5.8					
3	22	0.34	1.25	4.2	1.25	4.9	1.15	4.0	1.15	4.7	1.45	4.6	1.45	5.4	1.8	5.4	6.1					
4	22	0.34	1.25	4.5	1.25	5.3	1.15	4.3	1.15	5.0	1.45	5.0	1.45	5.7	1.8	5.8	6.6					
5	22	0.34	1.25	4.9	1.25	5.6	1.15	4.6	1.15	5.3	1.45	5.4	1.45	6.2	1.8	6.3	7.1					
7	22	0.34	1.25	5.2	1.25	6.0	1.15	4.9	1.15	5.7	1.45	5.8	1.45	6.6	1.8	6.9	7.6					
2	-	0.5	1.4	4.3	1.4	5.0	1.3	4.1	1.3	4.8	1.65	4.8	1.65	5.5	1.95	5.4	6.1					
3	-	0.5	1.4	4.5	1.4	5.3	1.3	4.3	1.3	5.0	1.65	5.0	1.65	5.8	1.95	5.7	6.5					
4	-	0.5	1.4	4.9	1.4	5.6	1.3	4.6	1.3	5.4	1.65	5.5	1.65	6.2	1.95	6.2	6.9					
5	-	0.5	1.4	5.3	1.4	6.0	1.3	5.0	1.3	5.8	1.65	5.9	1.65	6.7	1.95	6.7	7.5					
7	-	0.5	1.4	5.7	1.4	6.4	1.3	5.4	1.3	6.1	1.65	6.4	1.65	7.2	1.95	7.3	8.1					
2	20	0.6	1.5	4.5	1.5	5.2	1.4	4.3	1.4	5.0	1.7	4.9	1.7	5.6	2.0	5.5	6.2					
3	20	0.6	1.5	4.7	1.5	5.5	1.4	4.5	1.4	5.3	1.7	5.2	1.7	5.9	2.0	5.8	6.6					
4	20	0.6	1.5	5.1	1.5	5.9	1.4	4.9	1.4	5.6	1.7	5.6	1.7	6.3	2.0	6.3	7.1					
5	20	0.6	1.5	5.5	1.5	6.3	1.4	5.3	1.4	6.0	1.7	6.1	1.7	6.8	2.0	6.9	7.6					
7	20	0.6	1.5	6.0	1.5	6.7	1.4	5.7	1.4	6.4	1.7	6.6	1.7	7.3	2.0	7.5	8.2					
2	-	0.75	1.55	4.6	1.55	5.3	1.75	5.0	1.75	5.7	1.8	5.1	1.8	5.8	2.1	5.7	6.4					
3	-	0.75	1.55	4.8	1.55	5.6	1.75	5.3	1.75	6.0	1.8	5.4	1.8	6.1	2.1	6.0	6.8					
4	-	0.75	1.55	5.2	1.55	6.0	1.75	5.7	1.75	6.5	1.8	5.8	1.8	6.6	2.1	6.5	7.3					
5	-	0.75	1.55	5.7	1.55	6.4	1.75	6.2	1.75	7.0	1.8	6.3	1.8	7.1	2.1	7.2	7.9					
7	-	0.75	1.55	6.1	1.55	6.9	1.75	6.7	1.75	7.5	1.8	6.9	1.8	7.6	2.1	7.8	8.5					
2	18	0.93	1.8	5.1	1.8	5.8	1.9	5.3	1.9	6.0	2.0	5.5	2.0	6.2	2.25	6.0	6.7					
3	18	0.93	1.8	5.4	1.8	6.1	1.9	5.6	1.9	6.3	2.0	5.8	2.0	6.6	2.25	6.3	7.1					
4	18	0.93	1.8	5.8	1.8	6.6	1.9	6.1	1.9	6.8	2.0	6.3	2.0	7.1	2.25	6.9	7.7					
5	18	0.93	1.8	6.3	1.8	7.1	1.9	6.6	1.9	7.4	2.0	6.9	2.0	7.6	2.25	7.6	8.3					
7	18	0.93	1.8	6.9	1.8	7.6	1.9	7.2	1.9	7.9	2.0	7.5	2.0	8.2	2.25	8.2	9.0					
2	-	1	1.8	5.1	1.8	5.8	1.95	5.4	1.95	6.1	2.0	5.5	2.0	6.2	2.3	6.1	6.8					
3	-	1	1.8	5.4	1.8	6.1	1.95	5.7	1.95	6.5	2.0	5.8	2.0	6.6	2.3	6.4	7.2					
4	-	1	1.8	5.8	1.8	6.6	1.95	6.2	1.95	6.9	2.0	6.3	2.0	7.1	2.3	7.0	7.8					
5	-	1	1.8	6.3	1.8	7.1	1.95	6.7	1.95	7.5	2.0	6.9	2.0	7.6	2.3	7.7	8.5					
7	-	1	1.8	6.9	1.8	7.6	1.95	7.3	1.95	8.1	2.0	7.5	2.0	8.2	2.3	8.4	9.1					
2	16	1.34	2.0	5.5	2.0	6.2	2.2	5.9	2.2	6.6	2.2	5.9	2.2	6.6	2.5	6.5	7.2					
3	16	1.34	2.0	5.8	2.0	6.6	2.2	6.2	2.2	7.0	2.2	6.2	2.2	7.0	2.5	6.9	7.6					
4	16	1.34	2.0	6.3	2.0	7.1	2.2	6.8	2.2	7.5	2.2	6.8	2.2	7.5	2.5	7.5	8.3					
5	16	1.34	2.0	6.9	2.0	7.6	2.2	7.4	2.2	8.2	2.2	7.4	2.2	8.2	2.5	8.2	9.0					
7	16	1.34	2.0	7.5	2.0	8.2	2.2	8.1	2.2	8.8	2.2	8.1	2.2	8.8	2.5	9.0	9.7					
2	-	1.5	2.0	5.5	2.0	6.2	2.0	5.9	2.0	6.6	2.3	6.1	2.3	6.8	2.55	6.6	7.3					
3	-	1.5	2.0	5.8	2.0	6.6	2.2	6.2	2.2	7.0	2.3	6.4	2.3	7.2	2.55	7.0	7.7					
4	-	1.5	2.0	6.3	2.0	7.1	2.2	6.8	2.2	7.5	2.3	7.0	2.3	7.8	2.55	7.6	8.4					
5	-	1.5	2.0	6.9	2.0	7.6	2.2	7.4	2.2	8.2	2.3	7.7	2.3	8.5	2.55	8.4	9.1					
7	-	1.5	2.0	7.5	2.0	8.2	2.2	8.1	2.2	8.8	2.3	8.4	2.3	9.1	2.55	9.1	9.9					
2	14	-	2.4	6.3	2.4	7.0	2.6	6.7	2.6	7.4	2.6	6.7	2.6	7.4	3.0	7.5	8.2					
3	14	-	2.4	6.7	2.4	7.4	2.6	7.1	2.6	7.9	2.6	7.1	2.6	7.9	3.0	8.0	8.7					
4	14	-	2.4	7.3	2.4	8.0	2.6	7.7	2.6	8.5	2.6	7.7	2.6	8.5	3.0	8.7	9.5					
5	14	-	2.4	8.0	2.4	8.7	2.6	8.5	2.6	9.3	2.6	8.5	2.6	9.3	3.0	9.6	10.3					
7	14	-	2.4	8.7	2.4	9.4	2.6	9.3	2.6	10.0	2.6	9.3	2.6	10.0	3.0	10.5	11.2					

Conducting metal

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® M-CS-TBT

-60 °C to +180 °C



- 1 • Flexible bare copper core – class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.

Approvals - standards

- Meets the requirements of standards for low voltage lighting systems: NF EN 60598-1, NF EN 60598-2-xx and UTE C 15-559.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for low voltage lighting systems.

Options

- Tin-plated copper core: ref. M-ECS-TBT.
- Nickel-plated copper core: ref. M-CNCS-TBT.
- Identification using a coloured longitudinal stripe on one of the two conductors: contact us.
 - Other colours: contact us.
- UL approval 200 °C 1000 V (Style 4457): contact us.
- Other nominal cross-sections: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- Standard insulation colour: white.
- Identification by marking on one of the 2 conductors.

M-CS-TBT

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
2 x 0.5	16 x 0.20	39.0
2 x 0.75	24 x 0.20	26.0
2 x 1	32 x 0.20	19.5
2 x 1.5	30 x 0.25	13.3
2 x 2.5	50 x 0.25	7.98

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal dimensions (mm)	Approximate linear weight (kg/km)
0.6	2.1 x 4.4	15.8
0.6	2.4 x 5.0	22.0
0.6	2.5 x 5.2	26.7
0.6	2.8 x 5.8	36.6
0.7	3.4 x 7.0	58.2

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® SIZ-VDE

VDE approval
-60 °C to +180 °C



SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228 / DIN VDE 0295.
2 • Insulation: Silicone rubber – type E12 – DIN EN 50363-1.

Approvals - standards

- VDE approval as per licence no. 101609.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for low voltage lighting systems.

Options

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

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- Standard insulation colour: white.
- Identification by marking on one of the 2 conductors.

SIZ-VDE

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
2 x 0.5	16 x 0.20	40.1
2 x 0.75	24 x 0.20	26.7
2 x 1	32 x 0.20	20.0
2 x 1.5	30 x 0.25	13.7
2 x 2.5	50 x 0.25	8.21

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal dimensions (mm)	Approximate linear weight (kg/km)
0.6	2.1 x 4.4	15.8
0.6	2.4 x 5.0	22.0
0.6	2.5 x 5.2	26.7
0.7	2.8 x 5.8	36.6
0.8	3.4 x 7.0	58.2

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILISOL® SIHF-TBT

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 1 • Flexible bare copper or tin-plated core – class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Outer sheath: Silicone rubber.

Approvals - standards

- Meets the requirements of standards for low voltage lighting systems: NF EN 60598-1, NF EN 60598-2-xx and UTE C 15-559.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for low voltage lighting systems.

Options

- Nickel-plated copper core: contact us.
- Other conductor colours: contact us.
- Other outer sheath colours: contact us.
- Other nominal cross-sections: contact us.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Good resistance to thermal shock and UV.

Electrical

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

Standard products

- Standard conductor colours: blue / brown.
- Standard outer sheath colour: grey.

SIHF-TBT

Flexible core • class 5 as per IEC 60228			INSULATED CONDUCTORS		SHEATHED CABLE	
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Nominal linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	5.8	42.9
2 x 0.7	24 x 0.20	26.7	0.6	2.4	6.4	53.9
2 x 1	32 x 0.20	20.0	0.6	2.5	6.6	59.8
2 x 1.5	30 x 0.25	13.7	0.6	2.8	7.5	80.8
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.2	125
2 x 4	56 x 0.30	5.09	0.8	4.2	10.6	174

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HIGH TEMPERATURE WIRES AND CABLES FOR
THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE®
Style 3858
-60°C to +150°C



Approvals - standards

- UL approval as per standard UL 758 - File no.: E101965.
 - Conductor resistance according to IEC 60228 class 6.
- Flame resistance according to IEC 60332-1-2.
- Low smoke toxicity according to IEC 61034-2.
 - Halogen free according to IEC 60754.

Applications

- Switchboards, Power cabinets.
 - Battery energy storage.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Railway Industry (current collector, etc.)

Options

- Extra-flexible tin-plated, silver-plated or nickel-plated copper core.
 - Other markings: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.

Characteristics

General

- High flexibility due to 0.10 mm strand of core.
- Continuous operating temperatures: -60°C to +150°C.
- Good resistance to thermal shock and UV.
- Standard color: black.

Electrical

- Nominal working voltage: 3 kV.
- Test voltage: 10 kV.

Marking

- OMERIN 369 – SILICABLE 150C 3000V 3858 AWM.

2 1



- 1 • Extra-flexible bare copper core.
- 2 • Silicone insulation.

SILICABLE® Style 3858

Part number	Extra-flexible core		INSULATED WIRE OR CABLE		
	Nominal cross-section (mm ²)	Nominal diameter of strands (mm)	Minimum nominal insulation thickness (mm)	Nominal external diameter (mm)	Max. linear resistance at 20°C (Ω/km)
A0752002	35	0.10	1.75	13.8	0.554
A0752003	50	0.10	1.75	15.5	0.386
A0752004	70	0.10	1.75	18.0	0.272
A0752005	95	0.10	1.75	20.0	0.206
A0752006	120	0.10	1.75	21.5	0.161
A0752007	150	0.10	1.75	23.5	0.129
A0752008	185	0.10	1.80	26.0	0.106
A0752001	240	0.10	1.80	30.0	0.0801
A0752009	300	0.10	1.95	32.5	0.0641

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LES CABLES DE L'EXTREME



SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID

FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
1201	SILICABLE CSV and ECSV		58
1202	SILICABLE CSVRI and ECSVRI	 	59
1203	SILICABLE H05SJ-K	<HAR>	60
1204	SILICABLE H05SJ-U	<HAR>	61
1205	SILICABLE 150 °C - Silicone insulation with fibreglass braid		62
1206	SILICABLE 200 °C - Silicone insulation with fibreglass braid		63
1207	SILICABLE CSVCS and ECSVCS		64
1208	SILICABLE CSP and ECSP		65
1209	SILICABLE ECSPRI		66
1210	SILICABLE Style 3304 and 3573 - Ignition wires		67
1219	SILICABLE VMC-ECS		68
1220	SILICABLE PMC-ECS		70
1221	SILICABLE H05SST-F	<HAR>	72
1222	SILICABLE PMCBEC-ECS	 	74
1223	SILICABLE ECSBECSP	 	76
1224	SILICABLE Style 3779		77
1225	SILICABLE Style 30133		78

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CSV and ECSV

-60 °C to +220 °C



Approvals - standards

- VERITAS approval certificate No. BV 153552.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
 - Production machines.
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Nickel-plated copper core: ref. CNCSV.
- Silver-plated copper core: ref. ACSV.
- Pure nickel core (not described in IEC 60228): ref. NCSV.
 - Outer electrical shielding:
 - > Tin-plated copper braid: ref. CSVBE.
 - Outer flexible armour:
 - > Galvanised steel braid: ref. CSVBG.
 - > Stainless steel braid: ref. CSVBI.
- Solid bare copper (ref. RCSV) or tin-plated (ref. RECSV) core – class 1 as per IEC 60228: See details of the option below.
- Extra-flexible bare copper (ref. CSV-ES) or tin-plated (ref. ECSV-ES) core – class 6 as per IEC 60228.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

For this product, please contact:

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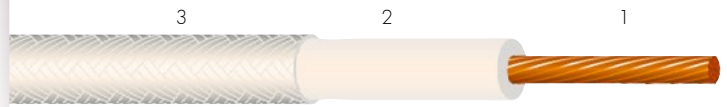
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LES CABLES DE L'EXTREME

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible bare copper (ref. CSV) or tin-plated (ref. ECSV) core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Silicone-coated fiberglass braid.

Characteristics

General

- Continuous operating temperatures: -60 °C to +220 °C.
- Good resistance to thermal shock and UV.

Electrical

- | | | |
|------------------|---------------------------------|------------------------------|
| | CS < 6 mm² | CS ≥ 6 mm² |
| • Rated voltage: | 300/500 V | 600/1000 V. |
| • Test voltage: | 2000 V | 3000 V. |

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

CSV and ECSV

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.4*	12 x 0.20	52.4
0.5	16 x 0.20	39.0
0.6*	19 x 0.20	32.8
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272
95	485 x 0.50	0.206
120	608 x 0.50	0.161
150	756 x 0.50	0.129
185	944 x 0.50	0.106
240	1221 x 0.50	0.0801
300	1525 x 0.50	0.0641
400	2037 x 0.50	0.0486

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.45	2.0	7.2
0.45	2.1	8.4
0.45	2.2	9.7
0.45	2.4	11.4
0.45	2.5	13.6
0.45	2.8	18.4
0.5	3.4	28.9
0.6	4.4	47.4
0.8	5.3	70.4
1.0	6.9	117
1.2	8.3	178
1.4	10.1	261
1.5	11.5	370
1.7	13.7	537
1.7	15.3	715
2.3	18.2	961
2.4	20.1	1222
2.4	22.0	1500
2.7	24.6	1844
3.2	28.6	2503
3.2	31.0	3082
3.2	34.6	3862

Option • RCSV and RECSV

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal diameter (mm)	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
6**	1 x 2.76	3.08

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.45	2.0	8.6
0.5	2.3	11.9
0.5	2.4	14.4
0.5	2.8	18.6
0.6	3.3	31.2
0.8	4.2	50.1
0.8	4.8	70.6

* Nominal cross-sections not described in IEC 60228.

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

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CSVRI and ECSVRI

-60 °C to +220 °C



Approvals - standards

- VERITAS approval certificate No. BV 153552.
 - VDE certificates:
 - > No. 9296-5950-4001 TL3/Li-eck-kl.
 - > No. 1 6648-5950-4001/A1F Li-hz-kl.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
 - Street lighting.
- Industrial cabling in hot atmospheres.
- Wire specifically designed to facilitate stripping on automatic machines.

Options

- Nickel-plated copper core: ref. CNCSVRI.
 - Stranded bare copper (ref. CSVRI-SP) or tin-plated (ref. ECSVRI-SP) core - class 2 as per IEC 60228: See details of the option below.
- Solid bare copper (ref. RCSVRI) or tin-plated (ref. RECSVRI) core - class 1 as per IEC 60228: See details of the option below.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible bare copper (ref. CSVRI) or tin-plated (ref. ECSVRI) core class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Varnished fibreglass braid.

Characteristics

General

- Continuous operating temperatures: -60 °C to +220 °C.
- Good resistance to thermal shock and UV.
- Specifically designed for stripping on automatic machines.

Electrical

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

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

CSVRI and ECSVRI

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding		Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	INSULATED WIRE		
	Class 5	Alternative		Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	-	39.0	0.4	2.2	8.5
0.75	24 x 0.20	11 x 0.30	26.0	0.4	2.4	11.0
1	32 x 0.20	14 x 0.30	19.5	0.4	2.5	13.2
1.5	30 x 0.25	21 x 0.30	13.3	0.4	2.9	18.7
2.5	50 x 0.25	35 x 0.30	7.98	0.5	3.5	29.4
4	56 x 0.30	-	4.95	0.6	4.3	47.3
6	84 x 0.30	-	3.30	0.8	5.3	72.0

Option • CSVRI-SP and ECSVRI-SP

Stranded core • class 2 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.34*	7 x 0.25	57.5	0.4	1.7	5.7
0.5	7 x 0.30	36.0	0.4	1.9	7.9
0.75	7 x 0.37	24.5	0.4	2.1	10.6
1	7 x 0.43	18.1	0.4	2.3	13.4
1.5	7 x 0.52	12.1	0.4	2.6	18.5
2.5	7 x 0.67	7.41	0.5	3.4	29.8

Option • RCSVRI and RECSVRI

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	1 x 0.80	36.0	0.45	2.1	9.2
0.75	1 x 0.98	24.5	0.45	2.2	11.4
1	1 x 1.13	18.1	0.45	2.4	14.5
1.5	1 x 1.38	12.1	0.45	2.7	19.8
2.5	1 x 1.77	7.41	0.5	3.2	30.9
4**	1 x 2.24	4.61	0.6	4.0	48.1
6**	1 x 2.76	3.08	0.8	4.8	71.8

* Nominal cross-sections not described in IEC 60228.

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

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® H05SJ-K

USE <HAR> Approval

-60 °C to +180 °C

<HAR>

Approvals - standards

- USE <HAR> Approval as per NF EN 50525-2-41.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances.
 - Production machines.
 - Lighting.
- Industrial cabling in hot atmospheres.

Options

- Varnished fibreglass braid: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

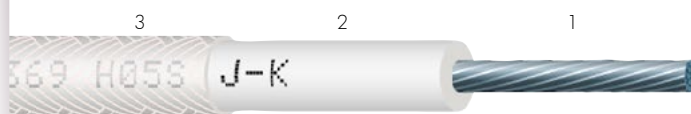
Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-41).

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible bare copper, tin-plated, nickel-plated or silver-plated core - class 5 as per IEC 60228 / EN 60228.
- 2 • Insulation: Silicone rubber - type EI2 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.
- 3 • Reinforcement: Silicone-coated fibreglass braid.

H05SJ-K

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω /km) (tin-plated copper core)	INSULATED WIRE OR CABLE		Approximate linear weight (kg/km)
			Nominal thickness of insulation (mm)	Nominal diameter (mm) min. max.	
0.5	16 x 0.20	40.1	0.6	2.6 3.3	11.0
0.75	24 x 0.20	26.7	0.6	2.8 3.5	14.5
1	32 x 0.20	20.0	0.6	2.9 3.7	16.7
1.5	30 x 0.25	13.7	0.7	3.4 4.2	20.4
2.5	50 x 0.25	8.21	0.8	4.0 5.0	35.0
4	56 x 0.30	5.09	0.8	4.5 5.6	49.4
6	84 x 0.30	3.39	0.8	5.0 6.2	73.3
10	80 x 0.40	1.95	1.0	6.2 7.8	123
16	126 x 0.40	1.24	1.0	7.3 9.1	182
25	192 x 0.40	0.795	1.2	9.0 11.3	272
35	259 x 0.40	0.565	1.2	10.3 12.8	355
50	377 x 0.40	0.393	1.4	11.7 14.6	502
70	340 x 0.50	0.277	1.4	13.8 17.3	686
95	444 x 0.50	0.210	1.6	15.6 19.6	911

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm) min. max.		Approximate linear weight (kg/km)
	0.6	2.6	
0.6	2.8	3.5	14.5
0.6	2.9	3.7	16.7
0.7	3.4	4.2	20.4
0.8	4.0	5.0	35.0
0.8	4.5	5.6	49.4
0.8	5.0	6.2	73.3
1.0	6.2	7.8	123
1.0	7.3	9.1	182
1.2	9.0	11.3	272
1.2	10.3	12.8	355
1.4	11.7	14.6	502
1.4	13.8	17.3	686
1.6	15.6	19.6	911

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® H05SJ-U

USE \triangleleft HAR \triangleright Approval

-60 °C to +180 °C

\triangleleft HAR \triangleright

- USE HAR Approval as per NF EN 50525-2-41.
- Halogen-free: IEC 60754-1 / EN 60754-1.

- Cabling for household electrical heating appliances.
 - Production machines.
 - Lighting, lights.
 - Industrial cabling in hot atmospheres.
- Varnished fibreglass braid: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-41).

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

H05SJ-U

Solid core • class 1 as per IEC 60228			INSULATED WIRE OR CABLE			
Nominal cross-section (mm ²)	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)
				min.	max.	
0.5*	1 x 0.80	36.7	0.6	-	2.5	10.5
0.75*	1 x 0.98	24.8	0.6	-	2.7	13.1
1	1 x 1.13	18.2	0.6	2.8	3.5	17.9
1.5	1 x 1.38	12.2	0.7	3.2	4.0	24.4
2.5	1 x 1.77	7.56	0.8	3.8	4.7	37.0
4**	1 x 2.24	4.70	0.8	4.2	5.3	51.1
6**	1 x 2.76	3.11	0.8	4.7	5.9	71.7

* Ref. 05SJ-U: nominal cross-sections not described in standard NF EN 50525-2-41.

** Nominal cross-sections not available in the solid tin-plated copper core version.

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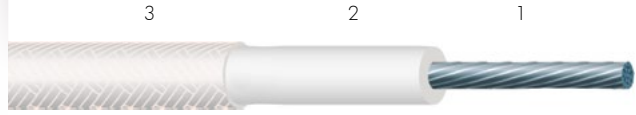
HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® 150 °C

Silicone insulation
with fibreglass braid
UL approval



SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Bare copper, tin-plated, nickel-plated or silver-plated core.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Coated fibreglass braid.

Characteristics

General

- Continuous operating temperatures: -60 °C to +150 °C.
- Good resistance to thermal shock and UV.

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 approval as per standard UL 758 - File no.: E101965.
- "Horizontal flame test" as per UL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for household electrical heating appliances, rotating machines, lighting.
- Industrial cabling in hot atmospheres.

Options

- Approval CSA as per standard C22.2 No. 210 - File no.: LL84986: contact us.
- Fixture wires (Ref. SF-1 or SF-2 or SFF-1 or SFF-2): contact us.
 - Other nominal cross-sections: contact us.
- Other style nos. available: style nos. 3100, 3101, 3113, 3127, 3128, 3207, 3208, 3210, 3278.
 - Vertical flame test VW-1: contact us.

Style no. Approval

Nominal cross-section		Average thickness of insulation (mm)		Nominal diameter* (mm)		Average thickness of insulation (mm)		Nominal diameter* (mm)	
AWG	(mm ²)								
26	0.13	0.38	1.5	0.38	1.5	0.76	2.3	-	-
24	0.22	0.38	1.7	0.38	1.7	0.76	2.4	-	-
22	0.34	0.38	1.9	0.38	1.9	0.76	2.7	-	-
-	0.5	0.38	2.0	0.38	2.0	0.76	2.8	-	-
20	0.6	0.38	2.1	0.38	2.1	0.76	2.9	0.76	2.9
-	0.75	0.38	2.2	0.38	2.2	-	-	0.76	3.0
18	0.93	0.38	2.3	0.38	2.3	0.76	3.1	0.76	3.1
-	1	0.38	2.4	0.38	2.4	0.76	3.2	0.76	3.2
16	1.34	0.38	2.6	0.38	2.6	0.76	3.6	0.76	3.6
-	1.5	0.38	2.7	0.38	2.7	0.76	3.7	0.76	3.7
14	-	-	-	0.38	3.0	0.76	4.0	0.76	4.0
-	2.5	-	-	0.38	3.1	0.76	4.1	0.76	4.1
12	-	-	-	0.38	3.7	0.76	4.5	0.76	4.5
-	4	-	-	0.38	3.9	0.76	4.7	0.76	4.7
10	-	-	-	0.38	4.3	-	-	1.14	5.8
-	6	-	-	0.38	4.4	-	-	1.14	6.0
8	-	-	-	0.38	5.1	-	-	1.14	6.6
-	10	-	-	0.38	5.7	-	-	1.14	7.7
6	-	-	-	0.38	6.4	-	-	1.52	8.9
-	16	-	-	0.38	6.8	-	-	1.52	9.5
4	-	-	-	0.38	7.8	-	-	1.52	10.7
-	25	-	-	0.38	8.3	-	-	1.52	11.1
2	35	-	-	0.38	9.4	-	-	1.52	11.9
1	-	-	-	0.38	10.6	-	-	2.03	14.4
-	50	-	-	0.38	11.0	-	-	2.03	15.1
1/0	-	-	-	0.38	11.7	-	-	2.03	15.6
2/0	70	-	-	0.38	12.8	-	-	2.03	16.5
3/0	-	-	-	0.38	14.4	-	-	2.03	18.2
-	95	-	-	0.38	14.6	-	-	2.03	18.4
4/0	-	-	-	0.38	16.1	-	-	2.41	20.5
-	120	-	-	0.38	16.4	-	-	2.41	20.9
250MCM	-	-	-	-	-	-	-	2.41	21.7
-	150	-	-	-	-	-	-	2.41	22.4
300MCM	-	-	-	-	-	-	-	2.41	23.6
350MCM	185	-	-	-	-	-	-	2.41	24.6
400MCM	-	-	-	-	-	-	-	2.41	25.6
-	240	-	-	-	-	-	-	2.41	26.9
500MCM	-	-	-	-	-	-	-	2.41	28.2
-	300	-	-	-	-	-	-	-	-
600MCM	-	-	-	-	-	-	-	-	-
700MCM	-	-	-	-	-	-	-	-	-
750MCM	400	-	-	-	-	-	-	-	-

Conducting metal

BCDEFG

BCDEFG

BCDEFG

BCDF

KEY

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

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

- N/S Not Specified
- VNS Voltage Not Specified

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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 of insulation should be taken into account.

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CSVCS and ECSVCS

Reinforced double
insulating layer

-60 °C to +180 °C

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Meets the requirements of standard NF EN 60335-1: Safety of household and similar electrical appliances.

Applications

- Class 2 lighting equipment and convectors or any other household electrical appliance complying with standard NF EN 60335-1.

Options

- Nickel-plated copper core: ref. CNCSVCS.
- Silver-plated copper core: ref. ACSVCS.
- Pure nickel core (not described in IEC 60228): ref. NCSVCS.
 - Solid bare copper (ref. RCSVCS) or tin-plated (ref. RECSVCS) core – class 1 as per IEC 60228: contact us.
- Extra-flexible bare copper (ref. CSVCS-ES) or tin-plated (ref. ECSVCS-ES) core – class 6 as per IEC 60228: contact us.
- Other nominal 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: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 3750 V.

Standard products

- Inner insulating layer: white.
- Outer insulating layer: all solid colours.

CSVCS and ECSVCS

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)		Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386

INSULATED WIRE OR CABLE

Nominal diameter (mm)		Nominal diameter (mm)
0.9	2.8	10.9
0.9	2.9	13.0
0.9	3.0	15.3
1.0	3.6	22.4
1.1	4.2	33.6
1.2	4.9	51.1
1.5	6.1	77.3
1.7	7.8	130
2.0	9.4	193
2.2	11.4	299
2.4	12.8	396
2.6	14.8	556

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible bare copper (ref. CSVCS) or tin-plated (ref. ECSVCS) core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Fibreglass braid.

For this product, please contact:

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® CSP and ECSP

-60 °C to +180 °C



Approvals - standards

- VERITAS approval certificate No. BV 153552.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
 - Power cabinets.

Options

- Solid bare copper (ref. RCSP) or tin-plated (ref. RECSP) core – class 1 as per IEC 60228: contact us.
- Extra-flexible bare copper (ref. CSP-ES) or tin-plated (ref. ECSP-ES) core – class 6 as per IEC 60228: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- | | | |
|------------------|----------------------------------|-------------------------------|
| | CS < 10 mm² | CS ≥ 10 mm² |
| • Rated voltage: | 450/750 V | 600/1000 V. |
| • Test voltage: | 2500 V | 3000 V. |

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

CSP and ECSP

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.25*	8 x 0.20	78.9
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272
95	485 x 0.50	0.206
120	608 x 0.50	0.161
150	756 x 0.50	0.129
185	944 x 0.50	0.106
240	1221 x 0.50	0.0801
300	1525 x 0.50	0.0641
400	2037 x 0.50	0.0486

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.4	1.8	5.4
0.4	2.0	7.9
0.4	2.2	10.3
0.4	2.3	12.5
0.4	2.7	17.7
0.5	3.3	29.6
0.6	4.1	45.0
0.8	5.1	68.7
1.0	7.2	122
1.2	8.6	180
1.4	10.4	277
1.6	11.9	373
1.8	14.1	542
1.8	15.9	726
2.2	18.2	964
2.3	20.7	1214
2.6	23.2	1522
2.7	25.2	1847
3.2	29.2	2512
3.2	31.6	3093
3.2	35.2	3807

* Nominal cross-section not included in IEC 60228.

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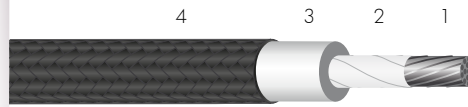
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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® ECSPRI

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Varnished synthetic fibre braid.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
 - Power cabinets.

Options

- Flexible bare copper core (ref. CSPRI) – class 5 as per IEC 60228: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

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

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.

ECSPRI

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	16 x 0.20	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210
120	608 x 0.50	0.164

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.35	1.9	7.2
0.4	2.2	10.2
0.4	2.3	12.3
0.4	2.7	17.7
0.5	3.3	28.2
0.6	4.1	44.6
0.8	5.1	67.8
0.9	7.0	121
1.1	8.4	179
1.3	10.2	278
1.4	11.6	372
1.7	13.8	534
1.7	15.4	703
2.1	18.0	942
2.3	20.0	1217

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SILICABLE® HT

Style 3304 and Style 3573

Ignition wires
UL approval



Approvals - standards

- UL approval as per standard UL 758 – File no.: E101965.
- Halogen-free: IEC 60754-1 / EN 60754-1.
- "Horizontal flame test" as per UL approval.

Applications

- Ignition circuit and creation of an electric arc for:
 - > Piezo-electric components in household electrical appliances.
 - > Gas or oil burners for boilers and professional appliances.

Options

- Other nominal cross-sections: contact us.
 - Vertical flame test VW-1: contact us.
 - Other colours: contact us.

Characteristics

General

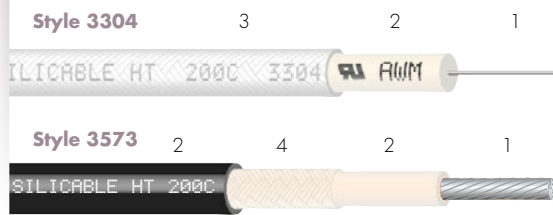
- Continuous operating temperatures: -60 °C to +200 °C.
- Good resistance to thermal shock and UV.

Electrical

- Pulse voltage: 10 kV AC.

Standard products

- Standard insulation colours: white, black, brick red and colourless.
- Stranding of conducting cores: contact us.



- 1 • Bare copper, tin-plated, nickel-plated or silver-plated core.
- 2 • Insulation: Silicone rubber.
- 3 • Reinforcement: Silicone-coated fibreglass braid.
- 4 • Reinforcement: Fibreglass braid.

Style no.		3304		3573	
Approval		200 °C - 10000 V		200 °C - 10000 V	
Nominal cross-section	Avg thick-ness of insulation	Nominal diameter*	Avg thick-ness of insulation	Nominal diameter*	
AWG (mm ²)	(mm)	(mm)	(mm)	(mm)	
22	0.34	1.0	3.1	1.0	3.2
-	0.5	1.0	3.2	1.0	3.4
20	0.6	1.0	3.4	1.0	3.6
-	0.75	1.0	3.5	1.0	3.7
18	0.93	1.0	3.5	1.0	3.7
-	1	1.0	3.7	1.0	3.9
16	1.34	1.0	3.8	1.0	4.1
-	1.5	1.0	4.0	1.0	4.3
14	-	1.0	4.3	1.0	4.6
-	2.5	1.0	4.5	1.0	4.8
12	-	1.0	4.8	1.0	5.0
-	4	1.0	5.0	1.0	5.3
Conducting metal		B*CDF*G		B*CDEF*G	

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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
- F* Bare copper (ø > 0,38 mm)
- G Nickel-plated copper 27 %

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® VMC-ECS

-60 °C to +180 °C

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
- Fire retardant: NF C 32-070 test C1.
- Resistance to vertical flame propagation for an insulated cable: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Tests on electric cables under fire conditions - Circuit integrity: IEC 60331-21.

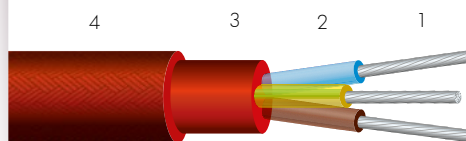
Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
 - Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
 - Lights, spotlights, etc.

Standard products

- Standard conductor colours: see table below.
- Standard sheath colour: brick red.
- Standard reinforcing braid colour: brick red.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Sheath: Silicone rubber.
- 4 • Reinforcement: Silicone-coated fibreglass braid.

Characteristics General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.

Electrical

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

Options

- Bare copper core: ref. VMC-CS.
- Nickel-plated copper core: ref. VMC-CNCS.
- Silver-plated copper core: ref. VMC-ACS.
- Pure nickel core (not described in IEC 60228): ref. VMC-NCS.
- Outer electrical shielding: > Tin-plated copper braid: ref. BEVMC-ECS.
- Outer flexible armour: > Galvanised steel braid: ref. BGVMC-ECS.
- > Stainless steel braid: ref. BIVMC-ECS.
- Sheathed electrical shielding: > Tin-plated copper braid: ref. VMCBE-ECS.
- > Aluminium/PET tape + continuity wire: ref. VMCBAL-ECS.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	6.1	45.1
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.7	56.8
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.3	68.2
5 x 0.5	16 x 0.20	40.1	0.6	2.1	8.2	84.8
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.8	93.5
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.8	102
10 x 0.5	16 x 0.20	40.1	0.6	2.1	11.5	156
12 x 0.5	16 x 0.20	40.1	0.6	2.1	12.1	183
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.6	204
16 x 0.5	16 x 0.20	40.1	0.6	2.1	13.1	223
19 x 0.5	16 x 0.20	40.1	0.6	2.1	13.9	259
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.6	54.8
3 x 0.75	24 x 0.20	26.7	0.6	2.4	7.0	65.6
4 x 0.75	24 x 0.20	26.7	0.6	2.4	8.0	85.7
5 x 0.75	24 x 0.20	26.7	0.6	2.4	8.9	105
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.6	116
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.7	131
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.5	192
12 x 0.75	24 x 0.20	26.7	0.6	2.4	13.3	231
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.6	250
16 x 0.75	24 x 0.20	26.7	0.6	2.4	14.4	283
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.6	343

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LES CABLES DE L'EXTREME

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	7.2	67.3
3 x 1	32 x 0.20	20.0	0.6	2.5	7.7	82.1
4 x 1	32 x 0.20	20.0	0.6	2.5	8.4	99.6
5 x 1	32 x 0.20	20.0	0.6	2.5	9.4	123
6 x 1	32 x 0.20	20.0	0.6	2.5	10.2	139
7 x 1	32 x 0.20	20.0	0.6	2.5	10.4	158
10 x 1	32 x 0.20	20.0	0.6	2.5	13.3	230
12 x 1	32 x 0.20	20.0	0.6	2.5	13.9	268
14 x 1	32 x 0.20	20.0	0.6	2.5	14.4	298
16 x 1	32 x 0.20	20.0	0.6	2.5	15.0	327
19 x 1	32 x 0.20	20.0	0.6	2.5	15.9	384
2 x 1.5	30 x 0.25	13.7	0.6	2.8	7.9	84.7
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.3	102
4 x 1.5	30 x 0.25	13.7	0.6	2.8	9.0	123
5 x 1.5	30 x 0.25	13.7	0.6	2.8	9.9	147
6 x 1.5	30 x 0.25	13.7	0.6	2.8	10.7	166
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.7	185
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.7	265
12 x 1.5	30 x 0.25	13.7	0.6	2.8	15.6	358
14 x 1.5	30 x 0.25	13.7	0.6	2.8	16.2	400
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.8	438
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.6	502
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.5	127
3 x 2.5	50 x 0.25	8.21	0.7	3.4	10.0	154
4 x 2.5	50 x 0.25	8.21	0.7	3.4	10.9	189
5 x 2.5	50 x 0.25	8.21	0.7	3.4	11.9	226
6 x 2.5	50 x 0.25	8.21	0.7	3.4	12.9	254
7 x 2.5	50 x 0.25	8.21	0.7	3.4	12.9	285
10 x 2.5	50 x 0.25	8.21	0.7	3.4	17.2	435
12 x 2.5	50 x 0.25	8.21	0.7	3.4	18.0	512
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.8	579
16 x 2.5	50 x 0.25	8.21	0.7	3.4	19.8	650
19 x 2.5	50 x 0.25	8.21	0.7	3.4	21.0	760
2 x 4	56 x 0.30	5.09	0.8	4.2	10.9	177
3 x 4	56 x 0.30	5.09	0.8	4.2	11.9	229
4 x 4	56 x 0.30	5.09	0.8	4.2	13.0	282
5 x 4	56 x 0.30	5.09	0.8	4.2	14.4	343
6 x 4	56 x 0.30	5.09	0.8	4.2	16.2	410
7 x 4	56 x 0.30	5.09	0.8	4.2	16.2	458
10 x 4	56 x 0.30	5.09	0.8	4.2	20.6	648
12 x 4	56 x 0.30	5.09	0.8	4.2	21.6	767
14 x 4	56 x 0.30	5.09	0.8	4.2	23.0	893
16 x 4	56 x 0.30	5.09	0.8	4.2	24.0	990
19 x 4	56 x 0.30	5.09	0.8	4.2	25.2	1145
2 x 6	84 x 0.30	3.39	0.8	4.8	12.9	256
3 x 6	84 x 0.30	3.39	0.8	4.8	13.3	307
4 x 6	84 x 0.30	3.39	0.8	4.8	14.5	378
5 x 6	84 x 0.30	3.39	0.8	4.8	18.0	539
6 x 6	84 x 0.30	3.39	0.8	4.8	19.4	607
7 x 6	84 x 0.30	3.39	0.8	4.8	19.4	675
2 x 10	80 x 0.40	1.95	1.0	6.4	16.0	394
3 x 10	80 x 0.40	1.95	1.0	6.4	18.6	558
4 x 10	80 x 0.40	1.95	1.0	6.4	20.6	698
5 x 10	80 x 0.40	1.95	1.0	6.4	22.6	837
6 x 10	80 x 0.40	1.95	1.0	6.4	23.4	884
7 x 10	80 x 0.40	1.95	1.0	6.4	23.4	997
2 x 16	126 x 0.40	1.24	1.2	7.8	19.6	598
3 x 16	126 x 0.40	1.24	1.2	7.8	21.6	787
4 x 16	126 x 0.40	1.24	1.2	7.8	23.8	979
5 x 16	126 x 0.40	1.24	1.2	7.8	26.2	1182
6 x 16	126 x 0.40	1.24	1.2	7.8	28.4	1332
7 x 16	126 x 0.40	1.24	1.2	7.8	28.4	1503
2 x 25	196 x 0.40	0.795	1.4	9.6	24.6	953
3 x 25	196 x 0.40	0.795	1.4	9.6	26.2	1201
4 x 25	196 x 0.40	0.795	1.4	9.6	29.1	1513

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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).

SILICABLE® PMC-ECS

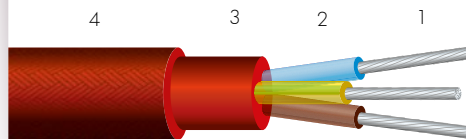
-60 °C to +180 °C

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
- Resistance to vertical flame propagation for an insulated cable: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Tests on electric cables under fire conditions – Circuit integrity: IEC 60331-21.

Options

- Bare copper core: ref. PMC-CS.
- Nickel-plated copper core: ref. PMC-CNCS.
 - Silver-plated copper core: ref. PMC-ACS.
- Pure nickel core (not described in IEC 60228): ref. PMC-NCS.
 - Sheathed electrical shielding:
 - > Tin-plated copper braid: ref. PMCBE-ECS.
 - > Aluminium/PET tape + continuity wire: ref. PMCBAL-ECS.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Sheath: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

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

Standard products

- Standard conductor colours: see table below.
- Standard sheath colour: brick red.
- Standard reinforcing braid colour: brick red.

Applications

- Cabling for shipbuilding and railway construction.
- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling for rotating machines: motors, alternators, generators, etc.
- Cabling for static machines: transformers, inductors, inverters, choppers, etc.
- Power cabinets, lights, welding stations.
- Cabling requiring excellent mechanical strength.

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	6.2	44.5
3 x 0.5	16 x 0.20	40.1	0.6	2.1	6.8	56.1
4 x 0.5	16 x 0.20	40.1	0.6	2.1	7.4	67.4
5 x 0.5	16 x 0.20	40.1	0.6	2.1	8.3	84.0
6 x 0.5	16 x 0.20	40.1	0.6	2.1	8.9	92.5
7 x 0.5	16 x 0.20	40.1	0.6	2.1	8.9	101
10 x 0.5	16 x 0.20	40.1	0.6	2.1	11.6	154
12 x 0.5	16 x 0.20	40.1	0.6	2.1	12.2	181
14 x 0.5	16 x 0.20	40.1	0.6	2.1	12.7	202
16 x 0.5	16 x 0.20	40.1	0.6	2.1	13.2	220
19 x 0.5	16 x 0.20	40.1	0.6	2.1	14.0	256
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.7	54.1
3 x 0.75	24 x 0.20	26.7	0.6	2.4	7.1	64.9
4 x 0.75	24 x 0.20	26.7	0.6	2.4	8.1	84.8
5 x 0.75	24 x 0.20	26.7	0.6	2.4	9.0	104
6 x 0.75	24 x 0.20	26.7	0.6	2.4	9.7	115
7 x 0.75	24 x 0.20	26.7	0.6	2.4	9.8	130
10 x 0.75	24 x 0.20	26.7	0.6	2.4	12.6	190
12 x 0.75	24 x 0.20	26.7	0.6	2.4	13.4	229
14 x 0.75	24 x 0.20	26.7	0.6	2.4	13.7	248
16 x 0.75	24 x 0.20	26.7	0.6	2.4	14.5	280
19 x 0.75	24 x 0.20	26.7	0.6	2.4	15.6	337

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	7.3	66.6
3 x 1	32 x 0.20	20.0	0.6	2.5	7.8	81.3
4 x 1	32 x 0.20	20.0	0.6	2.5	8.5	98.7
5 x 1	32 x 0.20	20.0	0.6	2.5	9.5	122
6 x 1	32 x 0.20	20.0	0.6	2.5	10.3	138
7 x 1	32 x 0.20	20.0	0.6	2.5	10.5	157
10 x 1	32 x 0.20	20.0	0.6	2.5	13.4	228
12 x 1	32 x 0.20	20.0	0.6	2.5	14.0	266
14 x 1	32 x 0.20	20.0	0.6	2.5	14.5	295
16 x 1	32 x 0.20	20.0	0.6	2.5	15.1	325
19 x 1	32 x 0.20	20.0	0.6	2.5	15.9	378
2 x 1.5	30 x 0.25	13.7	0.6	2.8	8.0	83.9
3 x 1.5	30 x 0.25	13.7	0.6	2.8	8.4	101
4 x 1.5	30 x 0.25	13.7	0.6	2.8	9.1	122
5 x 1.5	30 x 0.25	13.7	0.6	2.8	10.0	146
6 x 1.5	30 x 0.25	13.7	0.6	2.8	10.8	164
7 x 1.5	30 x 0.25	13.7	0.6	2.8	10.8	183
10 x 1.5	30 x 0.25	13.7	0.6	2.8	13.8	262
12 x 1.5	30 x 0.25	13.7	0.6	2.8	15.6	352
14 x 1.5	30 x 0.25	13.7	0.6	2.8	16.2	393
16 x 1.5	30 x 0.25	13.7	0.6	2.8	16.8	431
19 x 1.5	30 x 0.25	13.7	0.6	2.8	17.6	495
2 x 2.5	50 x 0.25	8.21	0.7	3.4	9.6	126
3 x 2.5	50 x 0.25	8.21	0.7	3.4	10.1	153
4 x 2.5	50 x 0.25	8.21	0.7	3.4	11.0	188
5 x 2.5	50 x 0.25	8.21	0.7	3.4	12.0	224
6 x 2.5	50 x 0.25	8.21	0.7	3.4	13.0	252
7 x 2.5	50 x 0.25	8.21	0.7	3.4	13.0	283
10 x 2.5	50 x 0.25	8.21	0.7	3.4	17.2	428
12 x 2.5	50 x 0.25	8.21	0.7	3.4	18.0	505
14 x 2.5	50 x 0.25	8.21	0.7	3.4	18.8	571
16 x 2.5	50 x 0.25	8.21	0.7	3.4	20.4	651
19 x 2.5	50 x 0.25	8.21	0.7	3.4	21.6	761
2 x 4	56 x 0.30	5.09	0.8	4.2	11.0	175
3 x 4	56 x 0.30	5.09	0.8	4.2	12.0	227
4 x 4	56 x 0.30	5.09	0.8	4.2	13.1	279
5 x 4	56 x 0.30	5.09	0.8	4.2	14.5	340
6 x 4	56 x 0.30	5.09	0.8	4.2	16.2	403
7 x 4	56 x 0.30	5.09	0.8	4.2	16.2	452
10 x 4	56 x 0.30	5.09	0.8	4.2	21.2	649
12 x 4	56 x 0.30	5.09	0.8	4.2	22.2	768
14 x 4	56 x 0.30	5.09	0.8	4.2	23.6	894
16 x 4	56 x 0.30	5.09	0.8	4.2	24.6	992
19 x 4	56 x 0.30	5.09	0.8	4.2	25.8	1146
2 x 6	84 x 0.30	3.39	0.8	4.8	13.0	253
3 x 6	84 x 0.30	3.39	0.8	4.8	13.4	304
4 x 6	84 x 0.30	3.39	0.8	4.8	14.6	375
5 x 6	84 x 0.30	3.39	0.8	4.8	18.0	531
6 x 6	84 x 0.30	3.39	0.8	4.8	19.4	599
7 x 6	84 x 0.30	3.39	0.8	4.8	19.4	668
2 x 10	80 x 0.40	1.95	1.0	6.4	16.0	387
3 x 10	80 x 0.40	1.95	1.0	6.4	18.6	551
4 x 10	80 x 0.40	1.95	1.0	6.4	21.2	699
5 x 10	80 x 0.40	1.95	1.0	6.4	23.2	838
6 x 10	80 x 0.40	1.95	1.0	6.4	24.0	885
7 x 10	80 x 0.40	1.95	1.0	6.4	24.0	998
2 x 16	126 x 0.40	1.24	1.2	7.8	20.2	599
3 x 16	126 x 0.40	1.24	1.2	7.8	22.2	788
4 x 16	126 x 0.40	1.24	1.2	7.8	24.4	980
5 x 16	126 x 0.40	1.24	1.2	7.8	26.8	1182
6 x 16	126 x 0.40	1.24	1.2	7.8	29.0	1342
7 x 16	126 x 0.40	1.24	1.2	7.8	29.0	1513
2 x 25	196 x 0.40	0.795	1.4	9.6	25.2	955
3 x 25	196 x 0.40	0.795	1.4	9.6	26.8	1200
4 x 25	196 x 0.40	0.795	1.4	9.6	29.7	1522

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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).

SILICABLE® H05SST-F

USE <HAR> Approval

-60 °C to +180 °C

<HAR>

Approvals - standards

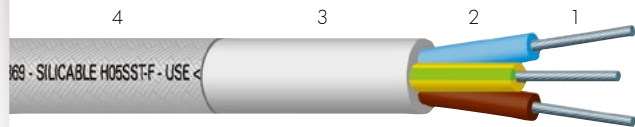
- USE <HAR> Approval as per NF EN 50525-2-83.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Industrial cabling in hot atmospheres up to 180 °C.
- Cabling in the metallurgical industry, glassworks, etc.
- Cabling for furnaces, ovens, machines for thermoplastics and rubber, welding stations, etc.
 - Lights, spotlights, etc.
- Cabling requiring excellent mechanical strength.

Options

- Other sheath colours: contact us.



- 1 • Flexible bare copper, tin-plated, nickel-plated or silver-plated core - class 5 as per IEC 60228 / EN 60228.
- 2 • Insulation: Silicone rubber - type EI2 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.
- 3 • Sheath: Silicone rubber - type EM9 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-2-1.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-83).

Standard products

- Standard conductor colours: as per HD 308 (see table below).
- Standard sheath colour: grey.
- Standard reinforcing braid colour: grey.

Standard conductor colours (as per HD 308)

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

• 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).

For this product, please contact:

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal thickness of the sheathing (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
						min.	max.	
2 x 0.75	24 x 0.20	26.7	0.6	2.4	0.8	6.7	8.4	58.7
3 x 0.75	24 x 0.20	26.7	0.6	2.4	0.9	7.2	9.1	72.6
4 x 0.75	24 x 0.20	26.7	0.6	2.4	0.9	7.8	9.8	86.7
5 x 0.75	24 x 0.20	26.7	0.6	2.4	1.0	8.6	10.9	105
2 x 1	32 x 0.20	20.0	0.6	2.5	0.9	7.1	9.0	68.2
3 x 1	32 x 0.20	20.0	0.6	2.5	0.9	7.5	9.5	81.3
4 x 1	32 x 0.20	20.0	0.6	2.5	0.9	8.1	10.3	97.3
5 x 1	32 x 0.20	20.0	0.6	2.5	1.0	9.0	11.3	119
2 x 1.5	30 x 0.25	13.7	0.8	3.2	1.0	8.6	10.8	103
3 x 1.5	30 x 0.25	13.7	0.8	3.2	1.0	9.0	11.4	125
4 x 1.5	30 x 0.25	13.7	0.8	3.2	1.1	10.0	12.6	165
5 x 1.5	30 x 0.25	13.7	0.8	3.2	1.1	10.8	13.7	183
2 x 2.5	50 x 0.25	8.21	0.9	3.8	1.1	10.0	12.6	157
3 x 2.5	50 x 0.25	8.21	0.9	3.8	1.1	10.6	13.4	175
4 x 2.5	50 x 0.25	8.21	0.9	3.8	1.2	11.7	14.8	236
5 x 2.5	50 x 0.25	8.21	0.9	3.8	1.3	12.9	16.3	339
3 x 4	56 x 0.30	5.09	1.0	4.6	1.2	12.3	15.5	277
4 x 4	56 x 0.30	5.09	1.0	4.6	1.3	13.7	17.2	331
3 x 6	84 x 0.30	3.39	1.0	5.2	1.4	13.8	17.3	355
4 x 6	84 x 0.30	3.39	1.0	5.2	1.5	15.2	19.1	432

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® PMCBEC-ECS

-60°C to +180°C



Approvals - standards

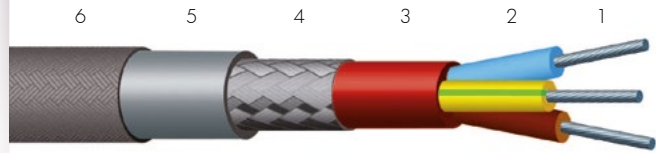
- Bureau VERITAS approval certificates no. 06466/DO BV: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22.
- Lloyd's Register approval certificates no. 06/00106: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22.



Options

- Flexible bare copper core – class 5 as per IEC 60228 (ref. PMCBEC-CS): contact us.
- Flexible silver-plated copper core – class 5 as per IEC 60228 (ref. PMCBEC-ACS): contact us.
- Flexible nickel-plated copper core – class 5 as per IEC 60228 (ref. PMCBEC-CNCS): contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Inner sheath: Silicone rubber.
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Outer sheath: Silicone rubber.
- 6 • Reinforcement: Coated synthetic fibre braid.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 600/1000 V.
- Test voltage: 3500 V.

Standard products

- Standard conductor colours: see table below.
- Standard inner sheath colours: brick red or white.
- Standard outer sheath colours: grey or white.
- Standard reinforcing braid colour: grey.

Applications

- Industrial cabling in hot atmospheres up to 180°C.
- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- Power cabinets.
- Cabling requiring excellent mechanical strength.

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1.5	30 x 0.25	13.7	1.0	3.6	13.1	224
3 x 1.5	30 x 0.25	13.7	1.0	3.6	13.9	255
4 x 1.5	30 x 0.25	13.7	1.0	3.6	15.3	339
5 x 1.5	30 x 0.25	13.7	1.0	3.6	16.5	415
7 x 1.5	30 x 0.25	13.7	1.0	3.6	17.7	506
12 x 1.5	30 x 0.25	13.7	1.0	3.6	23.2	726
19 x 1.5	30 x 0.25	13.7	1.0	3.6	26.7	972
24 x 1.5	30 x 0.25	13.7	1.0	3.6	31.0	1278
27 x 1.5	30 x 0.25	13.7	1.0	3.6	31.6	1378
37 x 1.5	30 x 0.25	13.7	1.0	3.6	35.2	1726
2 x 2.5	50 x 0.25	8.21	1.0	4.0	14.1	264
3 x 2.5	50 x 0.25	8.21	1.0	4.0	15.3	351
4 x 2.5	50 x 0.25	8.21	1.0	4.0	16.4	433
5 x 2.5	50 x 0.25	8.21	1.0	4.0	17.7	518
7 x 2.5	50 x 0.25	8.21	1.0	4.0	19.1	601
12 x 2.5	50 x 0.25	8.21	1.0	4.0	25.0	883
19 x 2.5	50 x 0.25	8.21	1.0	4.0	29.1	1307
24 x 2.5	50 x 0.25	8.21	1.0	4.0	33.7	1604
27 x 2.5	50 x 0.25	8.21	1.0	4.0	34.4	1728
37 x 2.5	50 x 0.25	8.21	1.0	4.0	38.7	2338
2 x 4	56 x 0.30	5.09	1.0	4.6	15.9	407
3 x 4	56 x 0.30	5.09	1.0	4.6	16.7	492
4 x 4	56 x 0.30	5.09	1.0	4.6	18.0	558
5 x 4	56 x 0.30	5.09	1.0	4.6	19.5	631
7 x 4	56 x 0.30	5.09	1.0	4.6	21.6	755
12 x 4	56 x 0.30	5.09	1.0	4.6	28.2	1239
19 x 4	56 x 0.30	5.09	1.0	4.6	32.6	1716
24 x 4	56 x 0.30	5.09	1.0	4.6	37.9	2114
27 x 4	56 x 0.30	5.09	1.0	4.6	39.1	2440
37 x 4	56 x 0.30	5.09	1.0	4.6	43.5	3091
2 x 6	84 x 0.30	3.39	1.0	5.2	17.2	507
3 x 6	84 x 0.30	3.39	1.0	5.2	18.3	586
4 x 6	84 x 0.30	3.39	1.0	5.2	20.3	674
5 x 6	84 x 0.30	3.39	1.0	5.2	22.1	786
7 x 6	84 x 0.30	3.39	1.0	5.2	23.9	948
12 x 6	84 x 0.30	3.39	1.0	5.2	31.0	1547
19 x 6	84 x 0.30	3.39	1.0	5.2	36.0	2195
24 x 6	84 x 0.30	3.39	1.0	5.2	42.4	2876
27 x 6	84 x 0.30	3.39	1.0	5.2	43.3	3122
2 x 10	80 x 0.40	1.95	1.0	6.4	20.5	648
3 x 10	80 x 0.40	1.95	1.0	6.4	21.6	766
4 x 10	80 x 0.40	1.95	1.0	6.4	23.5	904
5 x 10	80 x 0.40	1.95	1.0	6.4	25.8	1061
7 x 10	80 x 0.40	1.95	1.0	6.4	27.8	1376
12 x 10	80 x 0.40	1.95	1.0	6.4	36.6	2166
19 x 10	80 x 0.40	1.95	1.0	6.4	43.0	3264
2 x 16	126 x 0.40	1.24	1.0	7.8	23.6	855
3 x 16	126 x 0.40	1.24	1.0	7.8	25.3	1035
4 x 16	126 x 0.40	1.24	1.0	7.8	27.4	1312
5 x 16	126 x 0.40	1.24	1.0	7.8	30.3	1549
7 x 16	126 x 0.40	1.24	1.0	7.8	32.8	1915
12 x 16	126 x 0.40	1.24	1.0	7.8	43.4	3183
2 x 25	196 x 0.40	0.795	1.2	9.6	27.8	1263
3 x 25	196 x 0.40	0.795	1.2	9.6	29.8	1536
4 x 25	196 x 0.40	0.795	1.2	9.6	32.5	1856
5 x 25	196 x 0.40	0.795	1.2	9.6	35.7	2195
7 x 25	196 x 0.40	0.795	1.2	9.6	39.2	2894
2 x 35	276 x 0.40	0.565	1.2	11.0	31.3	1584
3 x 35	276 x 0.40	0.565	1.2	11.0	33.1	1916
4 x 35	276 x 0.40	0.565	1.2	11.0	36.4	2336
5 x 35	276 x 0.40	0.565	1.2	11.0	40.4	2927
7 x 35	276 x 0.40	0.565	1.2	11.0	44.0	3665
2 x 50	396 x 0.40	0.393	1.4	13.2	36.2	2100
3 x 50	396 x 0.40	0.393	1.4	13.2	38.9	2737
4 x 50	396 x 0.40	0.393	1.4	13.2	42.7	3325
2 x 70	360 x 0.50	0.277	1.4	14.8	40.3	2782
3 x 70	360 x 0.50	0.277	1.4	14.8	42.9	3446
4 x 70	360 x 0.50	0.277	1.4	14.8	47.1	4229

Standard conductor colours:

Number of conductors	With an earth wire	Without an earth wire
	2	-
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).

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE® ECSBECSP

-60°C to +180°C



Approvals - standards

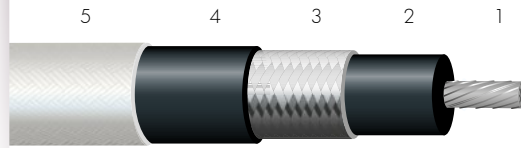
- Bureau VERITAS approval certificates no. 06465/DO BV: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22.
- Lloyd's Register approval certificates no. 06/00106: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22.

Applications

- Industrial cabling in hot atmospheres up to 180°C.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, choppers.
 - Shipbuilding and railway construction.
 - Power cabinets.
- Cabling requiring excellent mechanical strength.

Options

- Flexible bare copper core – class 5 as per IEC 60228 (ref. CSBECSP): contact us.
- Flexible silver-plated copper core – class 5 as per IEC 60228 (ref. ACSBECSP): contact us.
- Flexible nickel-plated copper core – class 5 as per IEC 60228 (ref. CNCSBECSP): contact us.
- Without reinforcing braid (ref. ECSBECS): contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options and/or combinations of the options outlined above: contact us.



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Silicone rubber.
- 3 • Electrical shielding: Tin-plated copper braid.
- 4 • Sheath: Silicone rubber.
- 5 • Reinforcement: Coated synthetic fibre braid.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 600/1000 V.
- Test voltage: 3500 V.

Standard products

- Standard insulation colour: black.
- Standard sheath colour: black.
- Standard reinforcing braid colour: grey.

ECSBECSP

Flexible core • class 5 as per IEC 60228			SHEATHED WIRE OR CABLE	
Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
1.5	30 × 0.25	13.7	7.3	81
2.5	50 × 0.25	8.21	7.8	95
4	56 × 0.30	5.09	8.4	114
6	84 × 0.30	3.39	9.1	139
10	80 × 0.40	1.95	10.5	202
16	126 × 0.40	1.24	11.6	261
25	196 × 0.40	0.795	13.6	386
35	276 × 0.40	0.565	14.8	477
50	396 × 0.40	0.393	16.9	665
70	360 × 0.50	0.277	19.7	893
95	485 × 0.50	0.210	21.8	1129
120	608 × 0.50	0.164	24.1	1460
150	756 × 0.50	0.132	26.5	1788
185	944 × 0.50	0.108	28.9	2230
240	1221 × 0.50	0.0817	32.4	2859
300	1525 × 0.50	0.0654	35.5	3475

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE®
Style 3779
UL approval
-60 °C to +180 °C



Approvals - standards

- UL approval as per standard UL 758
File no.: E101965
- "Horizontal flame test" as per UL approval.
- Resistance to vertical flame propagation for a single insulated wire: IEC 60332-1-2.

Applications

- Internal cabling for electrical appliances

Options

- AWG American cross-sections and other nominal cross-sections: contact us.
- Other nominal stranding: contact us.

Characteristics

General

- Continuous operating temperatures: -60 °C to +180 °C.
- Halogen-free material.
- Good mechanical resistance, excellent resistance to abrasion

Electrical

- Rated voltage: 600 V
- Test voltage: 6,000 V

Standard products

- All solid colours, yellow/green or white with coloured spiral markings.
- Standard range in metric cross-sections, also available in AWG American cross-sections

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated or nickel-plated copper core – class 2 or 5 as per IEC 60228
- 2 • Optional separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Varnished synthetic fibre braid.

Style no. 3779

Flexible core • class 2 or 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding		Maximum linear resistance at 20 °C (Ω/km)	
	Tin-plated copper	Nickel-plated copper	Tin-plated copper	Nickel-plated copper
0.6	-	19 x 0.20	-	36.0
0.75	-	24 x 0.20	-	26.7
1.0	7 x 0.43	32 x 0.20	18.2	20.0
1.5	7 x 0.52	30 x 0.25	12.2	13.7
2.5	19 x 0.40	50 x 0.25	7.56	8.21
4	32 x 0.40	56 x 0.30	4.70	5.09
6	48 x 0.40	84 x 0.30	3.11	3.39
10	77 x 0.40	-	1.95	-
16	119 x 0.40	-	1.24	-
25	192 x 0.40	-	0.795	-
35	259 x 0.40	-	0.565	-
50	370 x 0.40	-	0.393	-
70	333 x 0.50	-	0.277	-
95	444 x 0.50	-	0.210	-
120	568 x 0.50	-	0.164	-
150	721 x 0.50	-	0.132	-
185	888 x 0.50	-	0.108	-
240	1184 x 0.50	-	0.0817	-
300	1480 x 0.50	-	0.0654	-
400	1924 x 0.50	-	0.0495	-

INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
2.9	9.8
3.1	13.6
3.2	17.6
3.5	22.7
4.0	33.8
4.9	53.2
5.9	72.8
7.0	121
8.4	179
10.4	278
12.8	372
14.5	534
16.7	703
18.1	950
21.7	1217
23.2	1560
25.5	1900
28.0	2400
31.5	3050
34.6	4000

For this product, please contact:

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HIGH TEMPERATURE WIRES AND CABLES FOR
THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

SILICABLE®
Style 30133
-60°C to +150°C



Approvals - standards

- UL approval as per standard UL 758 - File no.: E101965.
 - Conductor resistance according to IEC 60228 class 6.
- Flame resistance according to IEC 60332-1-2.
- Low smoke toxicity according to IEC 61034-2.
 - Halogen free according to IEC 60754.

Applications

- Switchboards, Power cabinets.
 - Battery energy storage.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Railway Industry (current collector, etc.)

Options

- Extra-flexible tin-plated, silver-plated or nickel-plated copper core.
 - Other markings: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID



- 1 • Extra-flexible bare copper core.
- 2 • Silicone insulation.
- 3 • Coated synthetic fibre braid.

Characteristics

General

- High flexibility due to 0.10mm strand of core.
- Continuous operating temperatures: -60°C to +150°C.
- Good resistance to thermal shock and UV.
- Excellent mechanical resistance.
- Standard color: black.

Electrical

- Nominal working voltage: 3 kV.
- Test voltage: 10 kV.

Marking

- OMERIN 369 – SILICABLE 150C 3000V 30133 AWM.

SILICABLE® Style 30133

Part number	Extra-flexible core		INSULATED WIRE OR CABLE		
	Nominal cross-section (mm ²)	Nominal diameter of strands (mm)	Minimum nominal insulation thickness (mm)	Nominal external diameter (mm)	Max. linear resistance at 20°C (Ω/km)
B1408001	35	0.10	1.75	15.0	0.554
B1408002	50	0.10	1.75	16.7	0.386
B1408003	70	0.10	1.75	19.2	0.272
B1408004	95	0.10	1.75	21.2	0.206
B1408005	120	0.10	1.75	22.7	0.161
B1408006	150	0.10	1.75	24.7	0.129
B1408007	185	0.10	1.80	27.2	0.106
B1408008	240	0.10	1.80	31.2	0.0801
B1408009	300	0.10	1.95	33.7	0.0641

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VARPREN INSULATED WIRES AND CABLES

FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
1301	VARPREN ST		80
1302	VARPREN F		81
1303	VARPREN H05Z-K and H07Z-K	<HARD>	82
1304	VARPREN H05G-K and H07G-K	<HARD>	83
1305	VARPREN 125		84
1306	VARPREN 155		85
1309	VARPREN 105 UL - 105°C lead wires		86
1307	VARPREN 125 UL - Class B lead wire		87
1308	VARPREN 155 UL - Class F lead wire		88
1310	VARPREN FLR		89
1311	VARPREN MVA		90
1312	VARPREN H05GG-F	<HARD>	92
1313	VARPREN MVA-C-VA		94

VARPREN® ST

-40 °C to +155 °C

Approvals - standards

- Halogen-free: EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
 - Flame retardant: EN 60332-1-2 / NF C 32-070 test C2.
- Test for vertical flame propagation of vertically-mounted bunched wires or cables – Category A: IEC 60332-3-22.
- Low corrosivity of gas emissions: EN 60754-2.
- Low smoke density: EN 61034-2.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
 - Other options: contact us.



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.

Characteristics General

- Continuous operating temperatures: -40 °C to +155 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

- Rated voltage: 600/1000 V.
- Test voltage: 3500 V.

Standard products

- All colours including two-coloured.

VARPREN® ST

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	16 x 0.20	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.2	9.0
0.6	2.4	11.7
0.6	2.5	13.8
0.6	3.0	20.2
0.7	3.6	31.2
0.8	4.3	47.2
0.8	4.9	65.9
1.0	6.6	120
1.0	7.7	172
1.2	9.6	270
1.2	10.7	355
1.4	12.6	502
1.4	14.9	693
1.6	17.2	913

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

VARPREN INSULATED WIRES AND CABLES

VARPREN® F

-40 °C to +155 °C

Approvals - standards

- Halogen-free: EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
 - Flame retardant: EN 60332-1-2 / NF C 32-070 test C2.
- Test for vertical flame propagation of vertically-mounted bunched wires or cables – Category A: IEC 60332-3-22.
- Low corrosivity of gas emissions: EN 60754-2.
- Low smoke density: EN 61034-2.

Applications

- Class F cabling for electric motors.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options: contact us.

Characteristics General

- Continuous operating temperatures: -40 °C to +155 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

- Rated voltage: 600/1000 V.
- Test voltage: 3500 V.

Standard products

- All colours including two-coloured.



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.

VARPREN® F

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	16 x 0.20	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.2	9.0
0.6	2.4	11.7
0.6	2.5	13.8
0.6	3.0	20.2
0.7	3.6	31.2
0.8	4.3	47.2
0.8	4.9	65.9
1.0	6.6	120
1.0	7.7	172
1.2	9.6	270
1.2	10.7	355
1.4	12.6	502
1.4	14.9	693
1.6	17.2	913

For this product, please contact:

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VARPREN® H05Z-K and H07Z-K

USE <HAR> Approval
-15 °C to +90 °C

<HAR>

Approvals - standards

- USE <HAR> Approval as per NF EN 50525-3-41.
- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Flame retardant: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
- Low smoke density: IEC 61034-2 / EN 61034-2.

Options

- Solid tin-plated copper core – class 1 as per IEC 60228 (ref. H05Z-U and H07Z-U): contact us.
- Stranded tin-plated copper core – class 2 as per IEC 60228 (ref. H05ZR and H07ZR): contact us.
 - Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics General

- Continuous operating temperatures: -15 °C to +90 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

H05Z-K

H07Z-K

- Rated voltage: 300/500 V 450/750 V.
- Test voltage: 2000 V 2500 V.

Standard products

- All colours including two-coloured.

H05Z-K and H07Z-K

Flexible core • class 5 as per IEC 60228

INSULATED WIRE OR CABLE

Reference	Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)		Approximate linear weight (kg/km)	
				min.	max.		
H05ZK	0.5	16 x 0.20	40.1	0.6	2.1	2.6	9.0
H05ZK	0.75	24 x 0.20	26.7	0.6	2.2	2.8	11.7
H05ZK	1	32 x 0.20	20.0	0.6	2.4	2.9	13.8
H07ZK	1.5	30 x 0.25	13.7	0.7	2.8	3.5	20.2
H07ZK	2.5	50 x 0.25	8.21	0.8	3.4	4.3	31.2
H07ZK	4	56 x 0.30	5.09	0.8	3.9	4.9	47.2
H07ZK	6	84 x 0.30	3.39	0.8	4.4	5.5	65.9
H07ZK	10	80 x 0.40	1.95	1.0	5.7	7.1	120
H07ZK	16	126 x 0.40	1.24	1.0	6.7	8.4	172
H07ZK	25	196 x 0.40	0.795	1.2	8.4	10.6	265
H07ZK	35	276 x 0.40	0.565	1.2	9.7	12.1	355
H07ZK	50	396 x 0.40	0.393	1.4	11.5	14.4	506
H07ZK	70	360 x 0.50	0.277	1.4	13.2	16.6	679
H07ZK	95	485 x 0.50	0.210	1.6	15.1	18.8	897
H07ZK	120	608 x 0.50	0.164	1.6	16.7	20.9	1 142
H07ZK	150	756 x 0.50	0.132	1.8	18.6	23.3	1 354
H07ZK	185	944 x 0.50	0.108	2.0	20.6	25.8	1 766
H07ZK	240	1 221 x 0.50	0.0817	2.2	23.5	29.4	2 342

For this product, please contact:

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LES CABLES DE L'EXTREME

VARPREN® H05G-K and H07G-K

USE <HAR> Approval
-15 °C to +110 °C

Approvals - standards

- USE <HAR> Approval as per NF EN 50525-2-42.
- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Low smoke density: IEC 61034-2 / EN 61034-2.

Options

- Solid tin-plated copper core – class 1 as per IEC 60228 (ref. H05G-U and H07G-U); contact us.
- Stranded tin-plated copper core – class 2 as per IEC 60228 (ref. H07G-R); contact us.
- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.



Characteristics General

- Continuous operating temperatures: -15 °C to +110 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

H05G-K

H07G-K

- Rated voltage: 300/500 V 450/750 V.
- Test voltage: 2000 V 2500 V.

Standard products

- All colours including two-coloured.

H05G-K and H07G-K

Flexible core • class 5 as per IEC 60228

INSULATED WIRE OR CABLE

Reference	Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)		Approximate linear weight (kg/km)
				min.	max.	
H05G-K	0.5	16 x 0.20	40.1	0.6	2.1	9.6
H05G-K	0.75	24 x 0.20	26.7	0.6	2.2	12.0
H05G-K	1	32 x 0.20	20.0	0.6	2.4	14.5

H07G-K	1.5	30 x 0.25	13.7	0.8	3.0	22.4
H07G-K	2.5	50 x 0.25	8.21	0.9	3.6	34.6
H07G-K	4	56 x 0.30	5.09	1.0	4.3	52.2
H07G-K	6	84 x 0.30	3.39	1.0	4.8	71.0
H07G-K	10	80 x 0.40	1.95	1.2	6.0	121
H07G-K	16	126 x 0.40	1.24	1.2	7.1	175
H07G-K	25	196 x 0.40	0.795	1.4	8.8	274
H07G-K	35	276 x 0.40	0.565	1.4	10.1	368
H07G-K	50	396 x 0.40	0.393	1.6	11.9	522
H07G-K	70	360 x 0.50	0.277	1.6	13.6	702
H07G-K	95	485 x 0.50	0.210	1.8	15.5	914
H07G-K	120	608 x 0.50	0.164	1.8	17.1	1 168
H07G-K	150	756 x 0.50	0.132	2.0	19.0	1 411
H07G-K	185	944 x 0.50	0.108	2.2	21.0	1 817
H07G-K	240	1 221 x 0.50	0.0817	2.4	23.9	2 396

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HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

VARPREN INSULATED WIRES AND CABLES

VARPREN® 125

-50 °C to +125 °C

Approvals - standards

- Halogen-free: EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
 - Flame retardant: EN 60332-1-2 / NF C 32-070 test C2.
- Test for vertical flame propagation of vertically-mounted bunched wires or cables – Category A: IEC 60332-3-22.
- Low corrosivity of gas emissions: EN 60754-2.
- Low smoke density: EN 61034-2.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options: contact us.

Characteristics General

- Continuous operating temperatures: -50 °C to +125 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

- Rated voltage: CS ≤ 0.5 mm²: 450/750 V.
CS > 0.5 mm²: 600/1000 V.
- Test voltage: CS ≤ 0.5 mm²: 2500 V.
CS > 0.5 mm²: 3500 V.

Standard products

- Standard insulation colour: black.



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.

VARPREN® 125

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.34*	19 x 0.16	60.6
0.5	19 x 0.18	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	123 x 0.40	1.24
25	189 x 0.40	0.795
35	266 x 0.40	0.565
50	377 x 0.40	0.393
70	340 x 0.50	0.277
95	444 x 0.50	0.210
120	568 x 0.50	0.164
150	721 x 0.50	0.132
185	888 x 0.50	0.108
240	1184 x 0.50	0.0817

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.4	1.6	5.8
0.4	1.7	7.0
0.5	2.2	10.6
0.6	2.5	13.8
0.6	2.8	18.8
0.7	3.4	29.5
0.7	4.0	44.1
0.8	4.7	63.5
0.8	6.1	112
0.8	7.3	164
0.9	8.9	254
0.9	10.2	342
1.1	12.0	484
1.2	14.2	668
1.3	16.0	865
1.4	18.0	1120
1.6	20.6	1379
1.7	22.5	1766
1.8	25.4	2316

For this product, please contact:

* Nominal cross-section not described in IEC 60228.

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET
SECTION I: CROSS LINKED ELASTOMERS

VARPREN INSULATED WIRES AND CABLES

VARPREN® 155

-50 °C to +155 °C

Approvals - standards

- Halogen-free: EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
 - Flame retardant: EN 60332-1-2 / NF C 32-070 test C2.
- Test for vertical flame propagation of vertically-mounted bunched wires or cables – Category A: IEC 60332-3-22.
- Low corrosivity of gas emissions: EN 60754-2.
- Low smoke density: EN 61034-2.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options: contact us.

Characteristics General

- Continuous operating temperature: -50 °C to +155 °C.
- Excellent tearing strength.
- Minimum bending radius: 5 x D.

Electrical

- Rated voltage: CS ≤ 0.5 mm²: 450/750 V.
CS > 0.5 mm²: 600/1000 V.
- Test voltage: CS ≤ 0.5 mm²: 2500 V.
CS > 0.5 mm²: 3500 V.

Standard products

- Standard insulation colour: black.



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.

VARPREN® 155

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.34*	19 x 0.16	60.6
0.5	19 x 0.18	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	123 x 0.40	1.24
25	189 x 0.40	0.795
35	266 x 0.40	0.565
50	377 x 0.40	0.393
70	340 x 0.50	0.277
95	444 x 0.50	0.210
120	568 x 0.50	0.164
150	721 x 0.50	0.132
185	888 x 0.50	0.108
240	1184 x 0.50	0.0817

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.4	1.6	5.8
0.4	1.7	7.0
0.5	2.2	10.6
0.6	2.5	13.8
0.6	2.8	18.8
0.7	3.4	29.5
0.7	4.0	44.1
0.8	4.7	63.5
0.8	6.1	112
0.8	7.3	164
0.9	8.9	254
0.9	10.2	342
1.1	12.0	484
1.2	14.2	668
1.3	16.0	865
1.4	18.0	1120
1.6	20.6	1379
1.7	22.5	1766
1.8	25.4	2316

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* Nominal cross-section not described in IEC 60228.

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LES CABLES DE L'EXTREME

VARPREN® 105 UL

105°C lead wires

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.
 - "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Internal cabling for electrical appliances.
 - Lights.
- Industrial cabling in hot atmospheres up to +105 °C.

Options

- <HAR> approval = Ref. Style 3781-HAR: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other style nos. available: style 1381.
 - Other options: contact us.



- 1 • Flexible bare copper or tin-plated core.
- 2 • Insulation: XLPO.

Characteristics

General

- Continuous operating temperatures: -30 °C to +105 °C.
- Good resistance to common chemical influences and impregnating varnishes.

Electrical

- Rated voltage: 1000 V.
- Test voltage: 10 x Rated voltage.

Standard products

- Standard insulation: all solid colours.

Nominal cross-section		Nominal stranding	Avg thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm ²)			
24	0.22	7 x 0.20	0.48	1.6
22	0.34	7 x 0.25	0.48	1.8
-	0.5	24 x 0.20	0.48	2.0
20	0.6	19 x 0.20	0.48	2.1
-	0.75	24 x 0.20	0.48	2.2
18	0.93	19 x 0.25	0.48	2.3
-	1	32 x 0.20	0.48	2.4
16	1.34	19 x 0.30	0.48	2.5
-	1.5	30 x 0.25	0.48	2.65
14	-	19 x 0.37	0.48	2.9
-	2.5	50 x 0.25	0.48	3.05
12	-	37 x 0.34	0.48	3.4
-	4	56 x 0.30	0.48	3.6
10	-	37 x 0.43	0.48	4.2
-	6	84 x 0.30	0.76	5.0
8	-	70 x 0.40	0.76	5.6
-	10	77 x 0.40	1.14	6.5
6	-	105 x 0.40	1.14	7.5
-	16	119 x 0.40	1.14	7.8
4	-	168 x 0.40	1.14	9.2
-	25	196 x 0.40	1.14	9.6
2	35	259 x 0.40	1.14	11.1
1	-	342 x 0.40	1.52	12.6
-	50	370 x 0.40	1.52	12.9
1/0	-	425 x 0.40	1.52	13.7

Conducting metal

BF

KEY

Conducting metals

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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VARPREN® 125 UL

Class B lead wires

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.
 - "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

- Class B cabling for electric motors.
 - Lights.
- Industrial cabling in hot atmospheres up to +125 °C.

Options

- Nickel-plated copper core: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other style nos. available: style 1505.
 - Other options: contact us.



- 1 • Flexible bare copper or tin-plated core.
- 2 • Insulation: Varpren®.

Characteristics

General

- Continuous operating temperatures: -30 °C to +125 °C.
- Good resistance to common chemical influences and impregnating varnishes.

Electrical

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

Standard products

- Standard insulation colours: white, black, blue, brown, red or yellow/green.

		Style no.	3266		3173		3271	
		Approval	125 °C - 300 V		125 °C - 600 V		125 °C - 600 V	
Nominal cross-section	Nominal stranding		Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm ²)							
24	0.22	7 x 0.20	0.38	1.45	0.76	2.3	0.76	2.3
-	0.25	8 x 0.20	0.38	1.5	0.76	2.3	0.76	2.3
22	0.34	19 x 0.15	0.38	1.6	0.76	2.35	0.76	2.35
-	0.5	19 x 0.18	0.38	1.7	0.76	2.5	0.76	2.5
20	0.6	19 x 0.20	0.38	1.75	0.76	2.6	0.76	2.6
-	0.75	24 x 0.20	0.38	1.9	0.76	2.7	0.76	2.7
18	0.93	19 x 0.25	0.38	2.05	0.76	2.8	0.76	2.8
-	1	32 x 0.20	0.38	2.15	0.76	2.9	0.76	2.9
16	1.34	19 x 0.30	0.38	2.35	0.76	3.1	0.76	3.1
-	1.5	30 x 0.25	0.38	2.45	0.76	3.15	0.76	3.15
14	-	19 x 0.37	0.38	2.7	0.76	3.4	0.76	3.4
-	2.5	50 x 0.25	0.38	2.85	0.76	3.6	0.76	3.6
12	-	37 x 0.34	0.38	3.2	0.76	4.0	0.76	4.0
-	4	52 x 0.30	0.38	3.3	0.76	4.1	0.76	4.1
10	-	37 x 0.43	0.38	3.9	0.76	4.7	0.76	4.7
-	6	84 x 0.30	-	-	0.76	4.8	0.76	4.8
8	-	70 x 0.40	-	-	-	-	1.14	6.3
-	10	77 x 0.40	-	-	-	-	1.14	7.0
6	-	105 x 0.40	-	-	-	-	1.14	7.8
-	16	119 x 0.40	-	-	-	-	1.14	8.4
4	-	168 x 0.40	-	-	-	-	1.14	9.2
-	25	196 x 0.40	-	-	-	-	1.14	10.0
2	35	259 x 0.40	-	-	-	-	1.14	11.3
1	-	342 x 0.40	-	-	-	-	1.40	12.4
-	50	370 x 0.40	-	-	-	-	1.40	12.9
1/0	-	425 x 0.40	-	-	-	-	1.40	13.6
2/0	70	340 x 0.50	-	-	-	-	1.40	14.8
3/0	-	434 x 0.50	-	-	-	-	1.40	16.3
-	95	475 x 0.50	-	-	-	-	1.40	17.1
4/0	-	546 x 0.50	-	-	-	-	1.40	18.0

Conducting metal

BCDEFG

BCDEFG

BCDEFG

KEY

Conducting metals

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

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

- NS Not Specified
- VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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VARPREN® 155 UL

Class F lead wires

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.
- "FT2 flame rating" as per cUL approval.

Applications

- Class F cabling for electric motors.
 - Lights.
- Industrial cabling in hot atmospheres up to +150 °C.

Options

- Nickel-plated copper core: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other options: contact us.



- 1 • Flexible bare copper or tin-plated core.
- 2 • Insulation: Varpren®.

Characteristics

General

- Continuous operating temperatures: -10 °C to +150 °C.
- Temperature: -55 °C, see PV SF190111 01.
- Good resistance to common chemical influences and impregnating varnishes.

Electrical

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

Standard products

- Standard insulation colours: white, black, blue, brown, red or yellow/green.

		Style no.		3398		3289 et 3321		30097	
		Approval		150 °C - 300 V XLFRPE		150 °C - 600 V VARPREN®		150 °C - 750 V VARPREN®	
AWG	Nominal cross-section (mm ²)	Nominal stranding	Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (mm)	
24	0.22	7 x 0.20	0.38	1.4	-	-	-	-	
22	0.34	19 x 0.15	0.38	1.6	0.76	2.35	0.76	2.35	
-	0.5	19 x 0.18	0.38	1.7	0.76	2.5	0.76	2.5	
20	0.6	19 x 0.20	0.38	1.8	0.76	2.6	0.76	2.6	
-	0.75	24 x 0.20	0.38	1.9	0.76	2.7	0.76	2.7	
18	0.93	19 x 0.25	0.38	2.0	0.76	2.8	0.76	2.8	
-	1	32 x 0.20	0.38	2.1	0.76	2.9	0.76	2.9	
16	1.34	19 x 0.30	0.38	2.3	0.76	3.1	0.76	3.1	
-	1.5	30 x 0.25	0.38	2.4	0.76	3.15	0.76	3.15	
14	-	19 x 0.37	0.38	2.6	0.76	3.4	0.76	3.4	
-	2.5	50 x 0.25	0.38	2.8	0.76	3.6	0.76	3.6	
12	-	37 x 0.34	0.38	3.2	0.76	4.0	0.76	4.0	
-	4	52 x 0.30	0.38	3.3	0.76	4.1	0.76	4.1	
10	-	37 x 0.43	0.38	3.9	0.76	4.7	0.76	4.7	
-	6	84 x 0.30	-	-	0.76	4.8	0.76	4.8	
8	-	70 x 0.40	-	-	1.14	6.3	1.14	6.3	
-	10	77 x 0.40	-	-	1.14	7.0	1.14	7.0	
6	-	105 x 0.40	-	-	1.52	8.4	1.52	8.4	
-	16	119 x 0.40	-	-	1.52	8.8	1.52	8.8	
4	-	168 x 0.40	-	-	1.52	9.8	1.52	9.8	
-	25	196 x 0.40	-	-	1.52	10.4	1.52	10.4	
2	35	259 x 0.40	-	-	2.04	11.7	2.04	11.7	
1	-	342 x 0.40	-	-	2.04	13.6	2.04	13.6	
-	50	370 x 0.40	-	-	2.04	14.3	2.04	14.3	
1/0	-	425 x 0.40	-	-	2.04	15.0	2.04	15.0	
2/0	70	340 x 0.50	-	-	2.04	16.5	2.04	16.5	
3/0	-	434 x 0.50	-	-	2.04	17.7	2.04	17.7	
-	95	475 x 0.50	-	-	2.04	18.7	2.04	18.7	
4/0	-	546 x 0.50	-	-	2.04	19.6	2.04	19.6	

KEY

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

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

■: UL approved nominal cross-sections only.

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* 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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VARPREN® FLR

-40 °C to +150 °C



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Flame retardant: ISO 6722.
 - Low smoke density: IEC 61034-2 / EN 61034-2.

Applications

- Internal cabling for electrical appliances.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics

General

- Continuous operating temperatures: -40 °C to +150 °C.
- Good resistance to common chemical influences and impregnating varnishes.
- Bending radius: 5 x D.

Electrical

- Rated voltage: 60 V.
- Test voltage: CS ≥ 0.5 mm²: 5000 V.

Standard products

- All colours including two-coloured.

VARPREN® FLR

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.5	19 x 0.18	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2*	28 x 0.30	10.3
2.5	50 x 0.25	8.21
3*	44 x 0.30	6.83
4	52 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	123 x 0.40	1.24
25	189 x 0.40	0.795
35	266 x 0.40	0.565
50	377 x 0.40	0.393
70	340 x 0.50	0.277

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.3	1.6	6.5
0.3	1.8	9.6
0.3	2.0	12.4
0.3	2.3	17.0
0.35	2.7	21.8
0.35	2.9	27.6
0.4	3.2	34.3
0.4	3.6	41.8
0.4	4.3	58.3
0.6	5.8	106
0.65	7.2	160
0.65	8.8	250
0.8	10.0	334
0.9	11.8	474
1.0	14.2	662

* Nominal cross-sections not described in IEC 60228.

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LES CABLES DE L'EXTREME

VARPREN® MVA

-30 °C to +150 °C



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.
- 3 • Separating tape (Optional).
- 4 • Outer sheath: Varpren®.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
- Fire retardant: NF C 32-070 test C1.
 - Flame retardant: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
 - Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
- Low smoke density: IEC 61034-2 / EN 61034-2.

Applications

- Class F cabling for electric motors.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics

General

- Continuous operating temperatures: - 30 °C to +150 °C.
- Excellent tearing strength.
- Minimum bending radius: 10 x D.

Electrical

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

Standard products

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

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).

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LES CABLES DE L'EXTREME

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.2	5.8	43.7
3 x 0.5	16 x 0.20	40.1	0.6	2.2	6.2	51.7
4 x 0.5	16 x 0.20	40.1	0.6	2.2	6.9	63.4
5 x 0.5	16 x 0.20	40.1	0.6	2.2	7.5	77.2
2 x 0.75	24 x 0.20	26.7	0.6	2.4	6.3	53.6
3 x 0.75	24 x 0.20	26.7	0.6	2.4	6.8	65.4
4 x 0.75	24 x 0.20	26.7	0.6	2.4	7.6	81.9
5 x 0.75	24 x 0.20	26.7	0.6	2.4	8.4	102
2 x 1	32 x 0.20	20.0	0.6	2.5	6.6	61.0
3 x 1	32 x 0.20	20.0	0.6	2.5	7.2	76.6
4 x 1	32 x 0.20	20.0	0.6	2.5	7.8	90.4
5 x 1	32 x 0.20	20.0	0.6	2.5	8.8	117
2 x 1.5	30 x 0.25	13.7	0.7	3.0	8.0	90.0
3 x 1.5	30 x 0.25	13.7	0.7	3.0	8.4	106
4 x 1.5	30 x 0.25	13.7	0.7	3.0	9.2	128
5 x 1.5	30 x 0.25	13.7	0.7	3.0	10.1	159
2 x 2.5	50 x 0.25	8.21	0.8	3.6	9.2	125
3 x 2.5	50 x 0.25	8.21	0.8	3.6	9.8	152
4 x 2.5	50 x 0.25	8.21	0.8	3.6	10.7	185
5 x 2.5	50 x 0.25	8.21	0.8	3.6	11.9	231
2 x 4	56 x 0.30	5.09	0.9	4.3	10.6	173
3 x 4	56 x 0.30	5.09	0.9	4.3	11.2	211
4 x 4	56 x 0.30	5.09	0.9	4.3	12.6	268
5 x 4	56 x 0.30	5.09	0.9	4.3	13.8	329
2 x 6	84 x 0.30	3.39	0.9	4.9	11.8	225
3 x 6	84 x 0.30	3.39	0.9	4.9	12.7	286
4 x 6	84 x 0.30	3.39	0.9	4.9	14.0	353
5 x 6	84 x 0.30	3.39	0.9	4.9	15.6	447
2 x 10	80 x 0.40	1.95	1.0	6.6	15.6	398
3 x 10	80 x 0.40	1.95	1.0	6.6	16.6	498
4 x 10	80 x 0.40	1.95	1.0	6.6	18.3	618
5 x 10	80 x 0.40	1.95	1.0	6.6	20.4	782
2 x 16	126 x 0.40	1.24	1.0	7.7	17.8	541
3 x 16	126 x 0.40	1.24	1.0	7.7	19.0	685
4 x 16	126 x 0.40	1.24	1.0	7.7	21.2	869
5 x 16	126 x 0.40	1.24	1.0	7.7	23.4	1088
2 x 25	196 x 0.40	0.795	1.1	9.2	21.8	761
3 x 25	196 x 0.40	0.795	1.1	9.2	23.2	963
4 x 25	196 x 0.40	0.795	1.1	9.2	25.9	1222
5 x 25	196 x 0.40	0.795	1.1	9.2	28.7	1530

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LES CABLES DE L'EXTREME

VARPREN® H05GG-F

USE <HAR> Approval

-15 °C to +110 °C

<HAR>



Approvals - standards

- USE <HAR> approval: NF EN 50525-2-21.
- Halogen-free: IEC 60754-1 / EN 60754-1.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
- Low smoke density: IEC 61034-2 / EN 61034-2.

Applications

- Class F cabling for electric motors.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other nominal stranding: contact us.
- Other options: contact us.

- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228 / EN 60228.
- 2 • Insulation: Varpren® - type EI3 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.
- 3 • Outer sheath: Varpren® - type EM4 - NF C 32-525-1 / NF EN 50525-1 / EN 50363-2-1.

Characteristics

General

- Continuous operating temperatures: -15 °C to +110 °C.
- Excellent tearing strength.
- Minimum bending radius: 10 x D.

Electrical

- Rated voltage: 300/500 V.
- Test voltage: 2000 V (as per NF EN 50525-2-21).

Standard products

- Standard conductor colours: as per HD 308 (see table below).
- Standard outer sheath colour: black.

Standard conductor colours (as per HD 308):

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

• 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).

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
					min.	max.	
2 x 0.75	24 x 0.20	26.7	0.6	2.4	5.7	7.4	52.2
3 x 0.75	24 x 0.20	26.7	0.6	2.4	6.2	8.1	66.0
4 x 0.75	24 x 0.20	26.7	0.6	2.4	6.8	8.8	78.3
5 x 0.75	24 x 0.20	26.7	0.6	2.4	7.6	9.9	95.7
2 x 1	32 x 0.20	20.0	0.6	2.5	6.1	8.0	60.9
3 x 1	32 x 0.20	20.0	0.6	2.5	6.5	8.5	73.8
4 x 1	32 x 0.20	20.0	0.6	2.5	7.1	9.3	88.3
5 x 1	32 x 0.20	20.0	0.6	2.5	8.0	10.3	109
2 x 1.5	30 x 0.25	13.7	0.8	3.3	7.6	9.8	95.0
3 x 1.5	30 x 0.25	13.7	0.8	3.3	8.0	10.4	114
4 x 1.5	30 x 0.25	13.7	0.8	3.3	9.0	11.6	144
5 x 1.5	30 x 0.25	13.7	0.8	3.3	9.8	12.7	168
2 x 2.5	50 x 0.25	8.21	0.9	3.9	9.0	11.6	135
3 x 2.5	50 x 0.25	8.21	0.9	3.9	9.6	12.4	162
4 x 2.5	50 x 0.25	8.21	0.9	3.9	10.7	13.8	204
5 x 2.5	50 x 0.25	8.21	0.9	3.9	11.9	15.3	246
3 x 4	56 x 0.30	5.09	1.0	4.6	11.3	14.5	236
4 x 4	56 x 0.30	5.09	1.0	4.6	12.7	16.2	296
3 x 6	84 x 0.30	3.39	1.0	5.2	12.8	16.3	321
4 x 6	84 x 0.30	3.39	1.0	5.2	14.2	18.1	400

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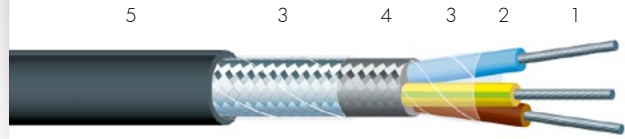
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LES CABLES DE L'EXTREME

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VARPREN® MVA-C-VA

-30 °C to +150 °C



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Insulation: Varpren®.
- 3 • Separating tape (Optional).
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Outer sheath: Varpren®.

Approvals - standards

- Halogen-free: IEC 60754-1 / EN 60754-1.
 - Fire retardant: NF C 32-070 test C1.
- Flame retardant: IEC 60332-1-2 / EN 60332-1-2 / NF C 32-070 test C2.
- Low corrosivity of gas emissions: IEC 60754-2 / EN 60754-2.
 - Low smoke density: IEC 61034-2 / EN 61034-2.

Applications

- Class F cabling for electric motors.

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options: contact us.

Characteristics General

- Continuous operating temperature: -30 °C to +150 °C.
- Excellent tearing strength.
- Minimum bending radius: 10 x D.

Electrical

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

Standard products

- Standard conductor colours: see table below.
- Standard outer sheath colour: 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).

For this product, please contact:

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Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.2	6.7	63.6
3 x 0.5	16 x 0.20	40.1	0.6	2.2	7.1	73.5
4 x 0.5	16 x 0.20	40.1	0.6	2.2	7.8	88.0
5 x 0.5	16 x 0.20	40.1	0.6	2.2	8.4	104
7 x 0.5	16 x 0.20	40.1	0.6	2.2	9.4	131
2 x 0.75	24 x 0.20	26.7	0.6	2.4	7.2	75.0
3 x 0.75	24 x 0.20	26.7	0.6	2.4	7.7	89.2
4 x 0.75	24 x 0.20	26.7	0.6	2.4	8.5	109
5 x 0.75	24 x 0.20	26.7	0.6	2.4	9.3	132
7 x 0.75	24 x 0.20	26.7	0.6	2.4	10.4	166
2 x 1	32 x 0.20	20.0	0.6	2.5	7.5	83.4
3 x 1	32 x 0.20	20.0	0.6	2.5	8.1	102
4 x 1	32 x 0.20	20.0	0.6	2.5	8.7	118
5 x 1	32 x 0.20	20.0	0.6	2.5	9.7	148
7 x 1	32 x 0.20	20.0	0.6	2.5	11.0	186
2 x 1.5	30 x 0.25	13.7	0.7	3.0	8.9	117
3 x 1.5	30 x 0.25	13.7	0.7	3.0	9.3	135
4 x 1.5	30 x 0.25	13.7	0.7	3.0	10.1	160
5 x 1.5	30 x 0.25	13.7	0.7	3.0	11.0	199
7 x 1.5	30 x 0.25	13.7	0.7	3.0	12.2	251
2 x 2.5	50 x 0.25	8.21	0.8	3.6	9.9	151
3 x 2.5	50 x 0.25	8.21	0.8	3.6	10.5	181
4 x 2.5	50 x 0.25	8.21	0.8	3.6	11.6	226
5 x 2.5	50 x 0.25	8.21	0.8	3.6	12.8	278
7 x 2.5	50 x 0.25	8.21	0.8	3.6	14.2	350

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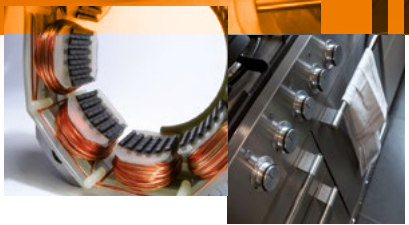
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