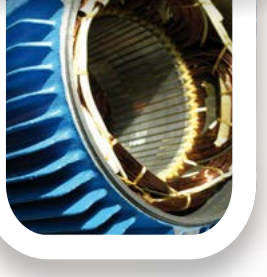


1

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET

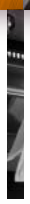
SECTION I: CROSS LINKED ELASTOMERS

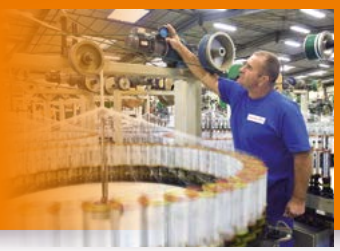
omerin

LES CABLES DE L'EXTREME



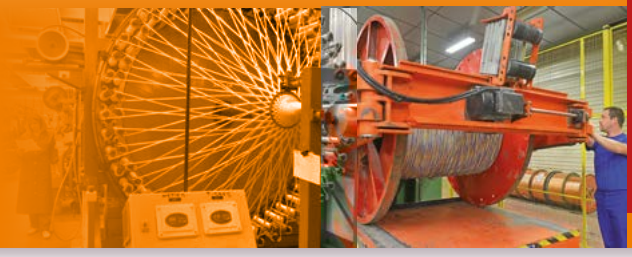





- ***The world's leading manufacturer of silicone-insulated wires and cables***
- ***Europe's leading manufacturer of glass-yarn braids***
- ***France's leading manufacturer of fire safety cables***

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



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

Our expertise is recognized in over 120 countries.

Omerin offers a wide range of high-performance products covering a large number of applications in very diverse industries, including the electrothermal construction, electromechanical, chemical, nuclear energy, railway, automotive, naval, aerospace, heavy industry, power plant and other sectors.
Our product range is further extended by varnished, impregnated and treated braided insulating sleevings, door seals for ovens, fireproof sleevings, thermocouple, extension and compensation cables as well as industrial braids.

Men and women at your service

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

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

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

List of all the available catalogues:

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

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

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CABLES FOR POWER STATIONS AND HIGH-RISK SITES 6

MARINE CABLES 7

PYROMETRY CABLES 8

BRAIDED INSULATING SLEEVINGS 9

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES 10

CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY 11

PACKAGING AND TECHNICAL DATA

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

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

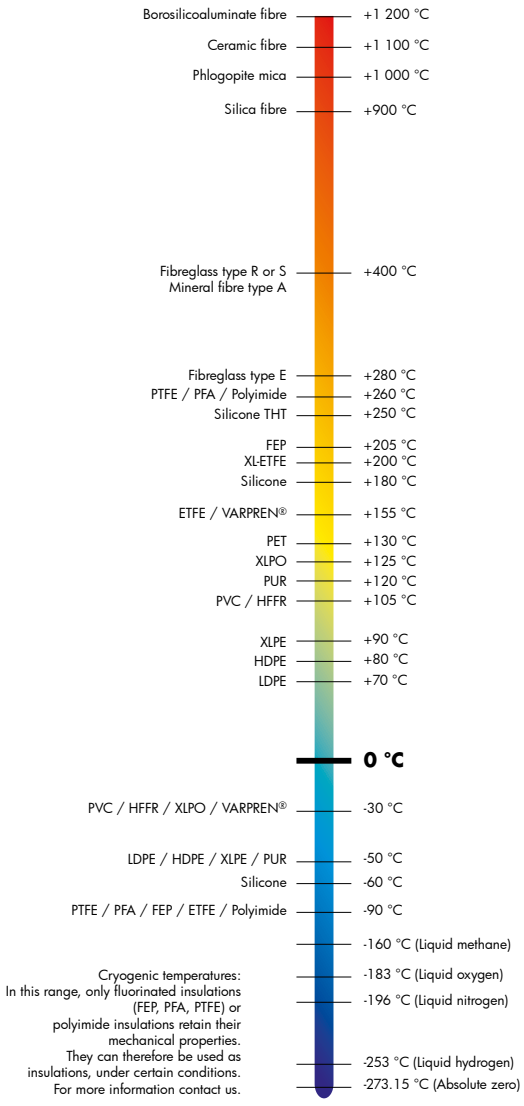
This catalogue, as well as ten others from our collection are available on line with real time updates and much more information at

www.omerin.com

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

BIO-HABITAT®	Wires and cables for a home without electromagnetic interference
CERAFIL®	Miniature ceramic insulated wires for very high temperatures
COAXRAIL®	Coaxial cables for railway industry
COAXTHERM®	High temperature coaxial cables
COUPLIX®	Pyrometry cables (thermocouples, extension, compensation cables)
DATARAIL®	Data cables for the railway industry
ELECTROAIR®	Aerospace & Defence wires and cables
ENERSYL®	Electrical cables for power station and high risk sites
FLEXBAT®	Extra flexible battery cables
LUMIPLAST®	Wires and cables for lighting systems
METALTRESSE®	High performance metallic braids
MINOROC®	Very high tensile strength synthetic cables
MULTIMAX®	Power, control and instrumentation cables for the marine industry
MULTI-VX®	Hybrid data and power cables
ODIOSIS®	Sound, amplification and loudspeaker cables
OILPLAST®	Cables for industrial environments and intrinsically safe system
OMBILIFLEX®	High performance special multi-function cables
PLASTHERM®	Special thermoplastic insulated wires and cables
POWER CONNECT®	High performance power cords
PROFIPLAST®	Thermoplastic insulated wires and cables
PYRISOL®	Fire resistant power cables for safety circuits
PYRITEL®	Fire resistant communication cables for safety circuits
SILIBOX®	Wire and cables cardboard box packaging system
SILICABLE®	Special high temperature wires and cables
SILICOUL®	Low and medium voltage class H (180°C) power cables
SILIFLAM®	Very high safety cables for extreme temperatures
SILIFLON®	Fluoropolymer insulated high temperature wires and cables
SILIGAINE®	Braided insulating sleevings
SILIRAD®	Electron beam cross-linked cables
SILITUBE®	Braided or extruded tubes
SOLARPLAST®	Power cables for photovoltaic solar panels
SONDIX®	Platinum resistance temperature sensors connection cables
SPIRFLEX®	High performance spiral cables
TEXALARM®	Cables for safety systems and fire alarms
TS CABLES®	Coaxial and data cables
TS COM 900®	Telephonic cables for very speed reception
TS LAN®	Copper LAN cables
TWINLINK®	High temperature controlled impedance twisted pair cables
TWINPLAST®	Extra flexible cables for battery chargers or jump starters
VARPREN®	Wires and cables with special cross-linked Varpren® insulation
VEROX®	Fiberglass braided seals
VIDEOCOAX®	Analog and digital video cables

Thermal classification of insulations



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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® CS and ECS
-60°C to +180°C

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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25 *	14 x 0.15	78.6	0.6	1.9	5.8
0.5	16 x 0.20	39.0	0.6	2.1	8.6
0.6 *	19 x 0.20	32.8	0.6	2.2	9.6
0.75	24 x 0.20	26.0	0.6	2.4	12.0
1	32 x 0.20	19.5	0.6	2.5	14.3
1.5	30 x 0.25	13.3	0.6	2.8	19.4
2.5	50 x 0.25	7.98	0.7	3.4	30.6
4	56 x 0.30	4.95	0.8	4.2	48.2
6	84 x 0.30	3.30	0.8	4.8	68.4
10	80 x 0.40	1.91	1.0	6.4	113
16	126 x 0.40	1.21	1.2	7.8	171
25	196 x 0.40	0.780	1.4	9.6	269
35	276 x 0.40	0.554	1.4	11.0	359
50	396 x 0.40	0.386	1.6	13.2	514
70	360 x 0.50	0.272	1.6	14.8	693
95	485 x 0.50	0.206	1.8	17.4	937
120	608 x 0.50	0.161	1.8	19.4	1186
150	756 x 0.50	0.129	2.0	21.4	1459
185	944 x 0.50	0.106	2.2	23.9	1834
240	1221 x 0.50	0.0801	2.2	26.4	2371
300	1525 x 0.50	0.0641	2.4	29.9	2990
400	2037 x 0.50	0.0486	2.6	34.2	3933

Option • CS and ECS

Stranded core • class 2 as per IEC 60228			INSULATED WIRE		
0.5	7 x 0.30	36.0	0.6	2.0	8.1
0.75	7 x 0.37	24.5	0.6	2.4	12.0
1	7 x 0.43	18.1	0.6	2.5	14.4
1.5	7 x 0.52	12.1	0.6	2.7	19.0
2.5	7 x 0.67	7.41	0.7	3.4	30.9
4	7 x 0.85	4.61	0.8	4.2	48.6
6	7 x 1.04	3.08	0.8	4.7	67.8

* Nominal cross-sections not described in IEC 60228.

For this product, please contact:

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SILICABLE® RCS and RECS

Solid core

-60°C to +180°C

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			INSULATED WIRE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	1 x 0.80	36.0	0.6	2.0	8.4
0.75	1 x 0.98	24.5	0.6	2.2	11.3
1	1 x 1.13	18.1	0.6	2.4	14.2
1.5	1 x 1.38	12.1	0.6	2.6	19.1
2.5	1 x 1.77	7.41	0.7	3.2	30.4
4*	1 x 2.24	4.61	0.8	3.9	47.2
6*	1 x 2.76	3.08	0.8	4.4	67.4

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

For this product, please contact:

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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® H05S-K and H05S-U

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

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.

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.

H05S-K

Flexible core • class 5 as per IEC 60228			INSULATED WIRE			
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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

H05S-U

Solid core • class 1 as per IEC 60228			INSULATED WIRE			
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

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SILICABLE® H05SS-K

Double insulating layer
USE ◁HAR▷ Approval
-60°C to +180°C

◁HAR▷

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.

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.

H05SS-K

Flexible core • class 5 as per IEC 60228			INSULATED WIRE				
Nominal cross-section (mm²)	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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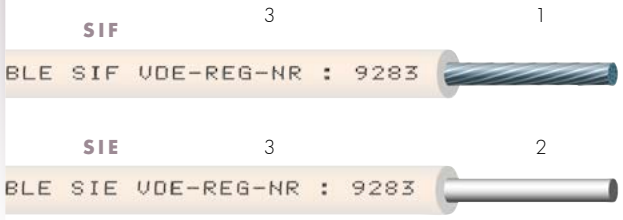
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

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



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.

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.

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 — **INSULATED WIRE**

Nominal cross-section (mm²)	Nominal stranding Class 5	Max. linear resistance at 20°C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25 *	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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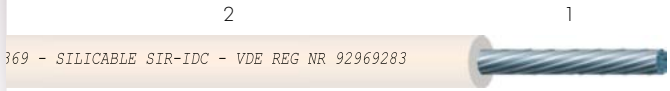
SILICABLE® SIR-IDC

For IDC connectors
VDE approval
-60°C to +180°C



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

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.

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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)	
0.22*	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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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® CS-ES and ECS-ES

Extra-flexible core

-60°C to +180°C

1 • Extra-flexible bare copper (ref. CS-ES) or tin-plated (ref. ECS-ES) core - class 6 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 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 — **INSULATED WIRE OR CABLE**

Nominal cross-section (mm²)	Nominal stranding	Max. 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	260 x 0.05 or 130 x 0.07	39.0	0.6	2.1	8.6
0.75	390 x 0.05 or 200 x 0.07	26.0	0.6	2.4	11.8
1	520 x 0.05 or 260 x 0.07	19.5	0.6	2.5	14.0
1.5	390 x 0.07 or 190 x 0.10	13.3	0.6	2.8	19.1
2.5	650 x 0.07 or 320 x 0.10	7.98	0.7	3.4	30.3
4	1008 x 0.07 or 224 x 0.15	4.95	0.8	4.2	47.0
6	342 x 0.15 or 192 x 0.20	3.30	0.8	5.0	69.7
10	324 x 0.20	1.91	1.0	6.4	115
16	512 x 0.20	1.21	1.2	7.8	180
25	796 x 0.20	0.780	1.4	9.6	275
35	1120 x 0.20	0.554	1.4	11.0	377
50	1600 x 0.20	0.386	1.6	13.2	546
70	2240 x 0.20	0.272	1.6	14.8	731
95	3025 x 0.20	0.206	1.8	17.4	980
120	3820 x 0.20	0.161	1.8	19.4	1312
150	4775 x 0.20	0.129	2.0	21.4	1562
185	5888 x 0.20	0.106	2.2	23.9	1899
240	7639 x 0.20	0.0801	2.2	26.4	2496

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SILICABLE® CSC and ECSC

Double insulating layer

-60°C to +180°C

1 • Flexible bare copper (ref. CSC) or tin-plated (ref. ECSC) 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.
• 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 — **INSULATED WIRE OR CABLE**

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Total nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	39.0	0.7	2.4	10.2
0.75	24 x 0.20	26.0	0.7	2.6	13.1
1	32 x 0.20	19.5	0.7	2.8	16.1
1.5	30 x 0.25	13.3	0.8	3.2	22.2
2.5	50 x 0.25	7.98	0.9	3.8	33.9
4	56 x 0.30	4.95	1.0	4.6	52.3
6	84 x 0.30	3.30	1.2	5.6	78.0
10	80 x 0.40	1.91	1.4	7.2	128
16	126 x 0.40	1.21	1.6	8.6	192
25	196 x 0.40	0.780	2.0	10.8	301
35	276 x 0.40	0.554	2.0	12.2	406
50	396 x 0.40	0.386	2.2	14.9	592

Option • CSC and ECSC

Stranded core • class 2 as per IEC 60228 — **INSULATED WIRE**

0.5	7 x 0.30	36.0	0.7	2.3	9.6
0.75	7 x 0.37	24.5	0.7	2.5	12.6
1	7 x 0.43	18.1	0.7	2.7	15.6
1.5	7 x 0.52	12.1	0.8	3.2	22.4
2.5	7 x 0.67	7.41	0.9	3.8	34.2
4	7 x 0.85	4.61	1.0	4.6	52.7
6	7 x 1.04	3.08	1.2	5.5	77.2

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SILICABLE® ECSC-VDE and CNCSC-VDE

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

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

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.

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			INSULATED WIRE			
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm) on the inner layer	on the outer layer	Nominal diameter (mm)	Approximate linear weight (kg/km)
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			INSULATED WIRE			
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

1 • Flexible bare copper (ref. CS-THT) or tin-plated (ref. ECS-THT) core - class 5 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

• 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			INSULATED WIRE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25 *	14 x 0.15	78.6	0.6	1.9	5.8
0.5	16 x 0.20	39.0	0.6	2.1	7.8
0.75	24 x 0.20	26.0	0.6	2.4	10.9
1	32 x 0.20	19.5	0.6	2.5	13.2
1.5	30 x 0.25	13.3	0.6	2.8	18.2
2.5	50 x 0.25	7.98	0.7	3.4	28.9
4	56 x 0.30	4.95	0.8	4.2	45.7
6	84 x 0.30	3.30	0.8	4.8	65.3

Option • CS-THT and ECS-THT

Stranded core • class 2 as per IEC 60228			INSULATED WIRE		
0.5	7 x 0.30	36.0	0.6	2.1	7.8
0.75	7 x 0.37	24.5	0.6	2.4	10.9
1	7 x 0.43	18.1	0.6	2.5	13.4
1.5	7 x 0.52	12.1	0.6	2.8	18.3
2.5	7 x 0.67	7.41	0.7	3.4	29.1
4	7 x 0.85	4.61	0.8	4.2	46.0
6	7 x 1.04	3.08	0.8	4.8	65.7

* Nominal cross-section not included in IEC 60228.

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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 (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	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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SILICABLE® 105°C

Silicone insulation
UL and cUL approval

C US

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	(mm²)	(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.

For this product, please contact:

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SILICABLE® 150°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 +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.

Style no.		3099		3132		3123		3133	
Approval		150°C – 300 V (cUL 600 V)		150°C – 300 V		150°C – 600 V		150°C – 600 V	
Nominal cross-section AWG	Nominal cross-section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
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	2.5	0.38	1.75	0.76	2.5	0.76	2.5
-	0.75	0.76	2.7	0.38	1.9	0.76	2.7	0.76	2.7
18	0.93	0.76	2.8	0.38	2.0	0.76	2.8	0.76	2.7
-	1	0.76	2.9	0.38	2.1	0.76	2.8	0.76	2.8
16	1.34	0.76	3.1	0.38	2.3	0.76	3.0	0.76	3.1
-	1.5	0.76	3.2	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 AWG	(mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (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.

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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 (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 nos. 3512 and 3135: contact us.

Style no.		3367		3135		3139		3143	
Approval		200°C – 300 V		200°C – 600 V		200°C – 600 V		200°C – 600 V	
Nominal cross-section AWG	(mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
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	2.8	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.

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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	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*
AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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	5.5	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	7.2	-	-	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	

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 3512-VDE).

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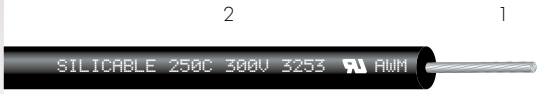
SILICABLE® 250°C

Silicone insulation
UL approval



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

Characteristics

General

• Continuous operating temperatures: -60°C to +250°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.
• "FT2 flame rating" 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

• Other nominal cross-sections: contact us.

Style no.		3253		30144		30145	
Approval		250 °C – 300 V		250 °C – 600 V		250 °C – 1000 V	
Nominal cross-section AWG	(mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
26	0.13	0.76	2.1	0.76	2.1	0.76	2.1
24	0.22	0.76	2.2	0.76	2.2	0.76	2.2
22	0.34	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
20	0.6	0.76	2.6	0.76	2.6	0.76	2.6
-	0.75	0.76	2.7	0.76	2.7	0.76	2.7
18	0.93	0.76	2.9	0.76	2.9	0.76	2.9
-	1	0.76	2.9	0.76	2.9	0.76	2.9
16	1.34	0.76	3.1	0.76	3.1	0.76	3.1
-	1.5	0.76	3.2	0.76	3.2	0.76	3.2
14	-	0.76	3.5	0.76	3.5	0.76	3.5
-	2.5	0.76	3.7	0.76	3.7	0.76	3.7
12	-	0.76	4.0	0.76	4.0	0.76	4.0
-	4	0.76	4.2	0.76	4.2	0.76	4.2
		CEG		CEG		CEG	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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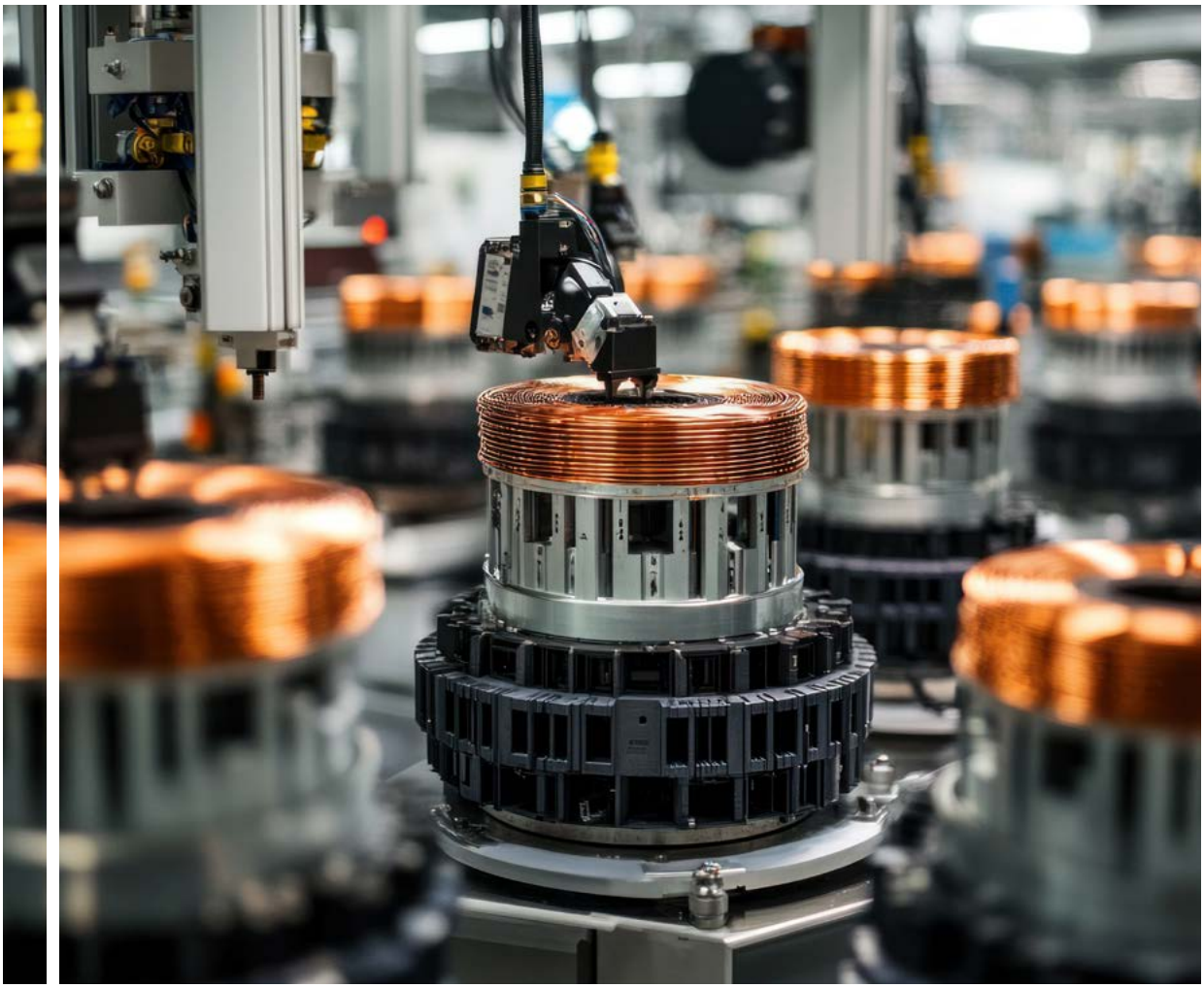

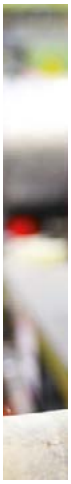

SILICABLE® CS-HRD and ECS-HRD

Insulation with improved mechanical strength

-60°C to +180°C

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			INSULATED WIRE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	39.0	0.6	2.1	7.8
0.75	24 x 0.20	26.0	0.6	2.4	11.0
1	32 x 0.20	19.5	0.6	2.5	13.3
1.5	30 x 0.25	13.3	0.6	2.8	18.2
2.5	50 x 0.25	7.98	0.7	3.4	29.0
4	56 x 0.30	4.95	0.8	4.2	45.8
6	84 x 0.30	3.30	0.8	4.8	65.5

Option • CS-HRD and ECS-HRD

Stranded core • class 2 as per IEC 60228			INSULATED WIRE		
0.5	7 x 0.30	36.0	0.6	2.1	7.8
0.75	7 x 0.37	24.5	0.6	2.4	11.0
1	7 x 0.43	18.1	0.6	2.5	13.4
1.5	7 x 0.52	12.1	0.6	2.8	18.4
2.5	7 x 0.67	7.41	0.7	3.4	29.2
4	7 x 0.85	4.61	0.8	4.2	46.2
6	7 x 1.04	3.08	0.8	4.8	66.0

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SILICABLE® CS-FRNC and ECS-FRNC

Improved flame resistance

-60°C to +180 C

1 • Flexible bare copper (ref. CS-FRNC) or tin-plated (ref. ECS-FRNC) 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.
- 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 — **INSULATED WIRE**

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	39.0	0.6	2.1	8.7
0.75	24 x 0.20	26.0	0.6	2.4	12.0
1	32 x 0.20	19.5	0.6	2.5	14.3
1.5	30 x 0.25	13.3	0.6	2.8	19.5
2.5	50 x 0.25	7.98	0.7	3.4	30.7

Option • CS-FRNC and ECS-FRNC

Stranded core • class 2 as per IEC 60228 — **INSULATED WIRE**

0.5	7 x 0.30	36.0	0.6	2.1	8.6
0.75	7 x 0.37	24.5	0.6	2.4	12.0
1	7 x 0.43	18.1	0.6	2.5	14.5
1.5	7 x 0.52	12.1	0.6	2.8	19.7
2.5	7 x 0.67	7.41	0.7	3.4	31.0

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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

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Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)	15 KV* Nominal diameter (mm)	15 KV* Approx. linear weight (kg/km)	20 KV* Nominal diameter (mm)	20 KV* Approx. linear weight (kg/km)	25 KV* Nominal diameter (mm)	25 KV* Approx. linear weight (kg/km)	30 KV* Nominal diameter (mm)	30 KV* 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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omerin
LES CABLES DE L'EXTREME

www.omerin.com

SILICABLE® ECS-HT VDE

Ignition wires VDE approval

-60°C to +180°C

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.

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.

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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.75	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		
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

For this product, please contact:

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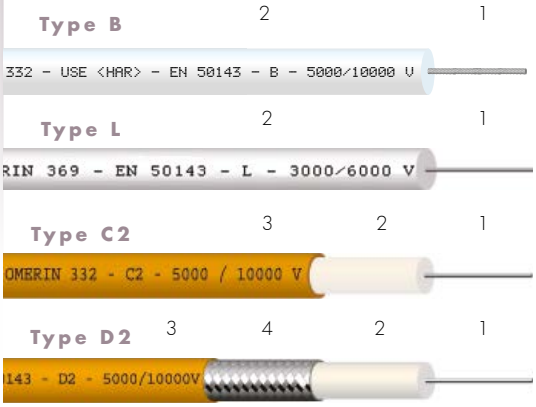
SILICABLE®
Type B, L, C2 and D2
Illuminated sign cables

◁HAR▷



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.

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.

Type B, L, C2 and D2

Reference	Flexible core • class 5 as per IEC 60228			INSULATED WIRE			
	Nominal cross-section (mm²)	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.	Nominal diameter (mm) 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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SILICABLE® MC-ECS
-60°C to +180°C

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

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. MC-ACS.
- Pure nickel core (not described in IEC 60228): ref. MC-NCS.
- Outer electrical shielding:
  > Tin-plated copper braid: ref. BEMC-ECS.
- Outer flexible armour:
  > Galvanised steel braid: ref. BGMC-ECS.
  > Stainless steel braid: ref. BIMC-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.

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

Nominal cross-section (mm^2)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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:

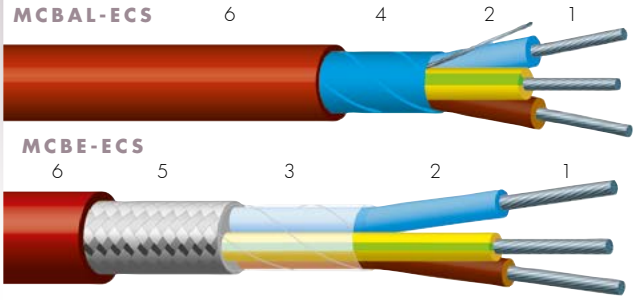
Number of conductors	With an earth wire	Without an earth wire
2	-	blue – brown
3	yellow/green – blue – brown	brown – black – grey
4	yellow/green – brown – black – grey	blue – brown – black – grey
5	yellow/green – blue – brown – black – grey	blue – brown – black – grey – black
≥ 6	yellow/green – grey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

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

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



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.

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. MCBEC-ECS and ref. MCBALC-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.

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: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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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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: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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	-	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 > mm^2 (example: 3 X 1.5 mm^2).
Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm^2).

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

Nominal cross-section (mm^2)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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	-	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

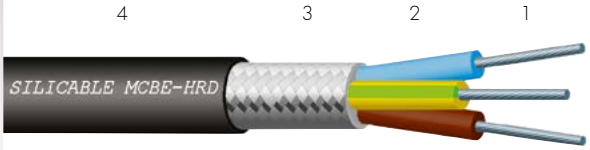
• Identification

Multi-conductor cables without an earth wire are identified as follows:
< Number of conductors > X < Cross-section > mm^2 (example: 3 X 1.5 mm^2).
Multi-conductor cables with an earth wire are identified by the symbol G in the place of the X (example 3 G 1.5 mm^2).

SILICABLE® MCBE-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 • Electrical shielding: Tin-plated copper braid.
4 • 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

	Nominal cross-section (mm^2)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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	-	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

SILICABLE® H05SS-F

USE ◁HAR▷ Approval

-60°C to +180°C

◁HAR▷

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.

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).

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 sheath (mm)	Nominal diameter (mm) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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

For this product, please contact:

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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE®
H05SS-F HRD
USE ◁HAR▷ Approval
-60°C to +180°C

◁HAR▷

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

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) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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

For this product, please contact:

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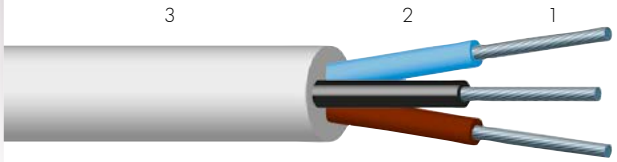
SILICABLE® MC-EFEP
-60°C to +200°C



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. MC-FEP.
- Nickel-plated copper core: ref. MC-CNFEP.
- Silver-plated copper core: ref. MC-AFEP.
- Extra-flexible tin-plated copper core – class 6 as per IEC 60228: ref. MC-EFEP-ES.
- Insulation: Fluorinated polymer PFA (improved thermal resistance of insulation): ref. MC-EPFA.
- Insulation: Fluorinated polymer ETFE (+155°C in continuous operation - improved mechanical strength): ref. MC-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	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).

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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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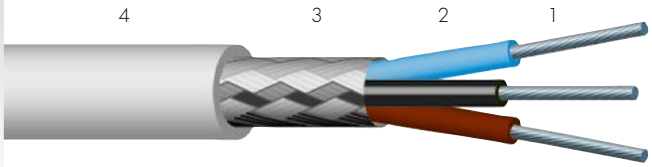
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

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. MCBAL-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	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).

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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

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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® 150°C

Silicone insulation
Silicone sheathing
UL and cUL approval

C US

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

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.

Style no.			4389-S150		4476-S150		
Approval			150°C – 600 V		150°C – 300 V		
			AWM II A/B (Wall 1.14 mm)		Internal wiring	External wiring	
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 cable*
No. of cond.	AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(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	8.0	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	7.8	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		

* 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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LES CABLES DE L'EXTREME

www.omerin.com

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)
Nominal cross-section			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)
No. of cond.	AWG	(mm²)						
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		

SILICABLE® 200°C

Silicone insulation
Silicone sheathing
UL and cUL approval

C US

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.

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

Style no.		4389-S200		4421-S200	
Approval		200°C – 600 V AWM II A/B (Wall 1.14 mm)		200°C – 600 V AWM II A/B (Wall 1.52 mm)	
No. of cond.	Nominal cross-section AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	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	

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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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.	Nominal cross-section AWG	(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		

SILICABLE® 150°C

Fluoropolymer insulation
Silicone sheathing
UL and cUL approval

C US

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 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-E150: contact us.

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

Style no.		4476-E150		
Insulation		ETFE		
Approval		150°C – 300 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 cable*
No. of cond.	AWG	(mm²)	(mm)	(mm)	(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		

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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LES CABLES DE L'EXTREME

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Style no.	4476-E150		4476-E150		4389-E150		4389-E150		4476-E150		
Insulation	ETFE		ETFE "Thin-wall"		ETFE		ETFE "Thin-wall"		ETFE		
Approval	150°C – 600 V		150°C – 600 V		150°C – 600 V		150°C – 600 V		150°C – 1 000 V (cUL 600 V)		
	AWM I A (Wall 0.76 mm)		AWM I A (Wall 0.76 mm)		AWM II A/B (Wall 1.14 mm)		AWM II A/B (Wall 1.14 mm)		AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)	
Nominal cross-section	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
No. of cond. AWG (mm²)											
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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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® 200°C

Fluoropolymer insulation
Silicone sheathing
UL and cUL approval

C US

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.

Style no.		4476-F200			4476-F200		
Insulation		ETFE "Thin-wall"			FEP		
Approval		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)
Nominal cross-section		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)
No. of cond.	AWG	(mm²)					
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.			4476-F200		4389-F200		4476-F200		4389-F200		4476-F200		4389-F200		4476-F200		
Insulation			ETFE "Thin-wall"		ETFE "Thin-wall"		FEP "Thin-wall"		FEP "Thin-wall"		FEP		FEP		FEP		
Approval			200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 600 V		200 °C – 1000 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)		AWM I A (Wall 0.76 mm)	AWM II A/B (Wall 1.14 mm)
Nominal cross-section			Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	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)
No. of cond.	AWG	(mm²)															
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	2.7	6.9	2.7	7.7	2.7	6.9	2.7	7.7	3.0	7.5	8.2
3	14	-	2.4	6.7	2.4	7.4	2.7	7.4	2.7	8.2	2.7	7.4	2.7	8.2	3.0	8.0	8.7
4	14	-	2.4	7.3	2.4	8.0	2.7	8.0	2.7	8.8	2.7	8.0	2.7	8.8	3.0	8.7	9.5
5	14	-	2.4	8.0	2.4	8.7	2.7	8.8	2.7	9.6	2.7	8.8	2.7	9.6	3.0	9.6	10.3
7	14	-	2.4	8.7	2.4	9.4	2.7	9.6	2.7	10.4	2.7	9.6	2.7	10.4	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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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			INSULATED WIRE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal dimensions (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	39.0	0.6	2.1 x 4.4	15.8
2 x 0.75	24 x 0.20	26.0	0.6	2.4 x 5.0	22.0
2 x 1	32 x 0.20	19.5	0.6	2.5 x 5.2	26.7
2 x 1.5	30 x 0.25	13.3	0.6	2.8 x 5.8	36.6
2 x 2.5	50 x 0.25	7.98	0.7	3.4 x 7.0	58.2

For this product, please contact:

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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® SIZ-VDE

VDE approval

-60°C to +180°C

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.

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			INSULATED WIRE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal dimensions (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1 x 4.4	15.8
2 x 0.75	24 x 0.20	26.7	0.6	2.4 x 5.0	22.0
2 x 1	32 x 0.20	20.0	0.6	2.5 x 5.2	26.7
2 x 1.5	30 x 0.25	13.7	0.7	2.8 x 5.8	36.6
2 x 2.5	50 x 0.25	8.21	0.8	3.4 x 7.0	58.2

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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILISOL® SIHF-TBT
-60°C to +180°C

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 (mm²)	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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SILICABLE®
Style 3858
-60°C to +150°C

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

Approvals - standards

- EN 45545-2: R15 HL2 / R16 HL3.
- 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 and IEC 60332-3-24.
- 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 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.
- Bending radius in fixed installation: 2 x D.
- Bending radius in flexible installation: 4 x D.

Electrical

- Rated voltage: 3 kV.
- Test voltage: 10 kV.

Standard product

- Colour: black.
- Other colours available on request.

Marking

- OMERIN 369 – SILICABLE 150C 3000V 3858 AWM

SILICABLE® Style 3858

Extra-flexible core			INSULATED WIRE OR CABLE		
Part number	Nominal cross-section (mm²)	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	12.6	0.554
A0752003	50	0.10	1.75	14.7	0.386
A0752004	70	0.10	1.75	16.7	0.272
A0752005	95	0.10	1.75	18.6	0.206
A0752006	120	0.10	1.75	20.3	0.161
A0752007	150	0.10	1.75	22.2	0.129
A0752008	185	0.10	1.80	24.4	0.106
A0752001	240	0.10	1.80	30.0	0.0801
A0752009	300	0.10	1.95	30.7	0.0641

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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE®
Style 30122
-60°C to +180°C

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

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.).
- Test bench.

Options

- Extra-flexible tin-plated, silver-plated or nickel-plated copper core.
- Other markings: 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 +180°C (+150°C as per UL).
- Good resistance to thermal shock and UV.
- Bending radius in fixed installation: 2 x D.
- Bending radius in flexible installation: 4 x D.

Electrical

- Rated voltage: 3 kV.
- Test voltage: 10 kV.

Standard product

- Colour: black.
- Other colours available on request.

Marking

- OMERIN 369 – SILICABLE 150C 3000V 30122 AWM

SILICABLE® Style 30122

Extra-flexible core			INSULATED WIRE OR CABLE		
Part number	Nominal cross-section (mm²)	Nominal diameter of strands (mm)	Minimum nominal insulation thickness (mm)	Nominal external diameter (mm)	Max. linear resistance at 20°C (Ω/km)
A0753001	35	0.10	1.27	11.1	0.554
A0753002	50	0.10	1.27	12.9	0.386
A0753003	70	0.10	1.27	14.8	0.272
A0753004	95	0.10	1.27	16.7	0.206
A0753005	120	0.10	1.27	18.7	0.161
A0753006	150	0.10	1.27	20.5	0.129
A0753007	185	0.10	1.27	22.8	0.106
A0753008	240	0.10	1.27	26.7	0.0801
A0753009	300	0.10	1.27	29.3	0.0641

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SILICABLE®
Style 30123
-60°C to +180°C

1 • Extra-flexible bare copper core.
2 • Silicone insulation.
3 • Tinned copper braid.
4 • Aluminium/PET tape.
5 • Silicone sheath with high tear strength

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.).
- Test bench.

Options

- Extra-flexible tin-plated, silver-plated or nickel-plated copper core.
- Other markings: 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 +180°C (+150°C as per UL).
- Good resistance to thermal shock and UV.
- High tear resistance.
- Bending radius in fixed installation: 3 x D.

Electrical

- Rated voltage: 3 kV.
- Test voltage: 10 kV (sparktest).

Standard product

- Colour: black.
- Other colours available on request.

Marking

- OMERIN 369 – SILICABLE 150C 3000V 30123 AWM

SILICABLE® Style 30123

Extra-flexible core			INSULATED WIRE OR CABLE		
Part number	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)
A0754001	35	0.10	1.39	15.1	0.554
A0754002	50	0.10	1.39	16.8	0.386
A0754003	70	0.10	1.39	18.8	0.272
A0754004	95	0.10	1.39	20.7	0.206
A0754005	120	0.10	1.39	22.8	0.161
A0754006	150	0.10	1.39	24.7	0.129
A0754007	185	0.10	1.39	27.0	0.106
A0754008	240	0.10	1.39	30.8	0.0801
A0754009	300	0.10	1.39	33.4	0.0641

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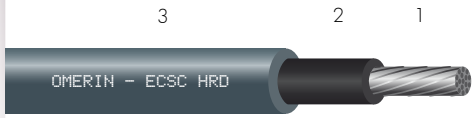
SILICABLE® ECSC-HRD

Sheathing with improved mechanical strength

-40°C to +180°C



1 • Flexible tinned copper core - Class 5 as per IEC 60228.
2 • Insulation: Silicone rubber.
3 • Sheath: Silicone rubber with high mechanical properties.

Approvals - standards

- Conductor resistance according to IEC 60228 class 5.
- Flame retardant according to IEC 60332-1-2.
- Low smoke toxicity according to IEC 60754-2.
- Halogen free according to IEC 60754-1.
- AD 7 - as per NF C 15-100-1.

Applications

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

Characteristics

General

- Continuous operating temperatures: -40°C to +180°C.
- Good resistance to alternate bending.
- Good resistance to acids and base.
- Good resistance to mineral oil.
- Bending radius as per EN 50355: 5 x D.

Electrical

- Rated voltage: 1 000 V AC / 1 500 V DC.
- Test voltage: 3 500 V AC.

Standard product

- Colour: black.

Marking

- OMERIN – ECSC HRD – {cross-section/mm²}

SILICABLE® ECSC-HRD

Nominal cross-section (mm²)	Maximum strands diameter (mm)	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Nominal cable diameter (mm)	Max. linear resistance at 20°C (Ω/km)
10	0.41	1.0	1.0	8.2	1.95
16	0.41	1.0	1.0	9.5	1.24
25	0.41	1.0	1.2	11.3	0.795
35	0.41	1.5	1.2	13.6	0.565
50	0.41	1.5	1.4	15.7	0.393
70	0.51	1.5	1.4	17.6	0.277
95	0.51	1.5	1.4	19.2	0.210
120	0.51	2.0	1.4	21.9	0.164
150	0.51	2.0	1.6	24.1	0.132
185	0.51	2.0	1.6	25.9	0.108
240	0.51	2.0	1.8	28.8	0.0817
300	0.51	2.7	1.9	33.4	0.0654
400	0.51	2.7	2.0	37.1	0.0495
500	0.51	2.7	2.0	40.2	0.0391
630	0.51	3.0	2.2	45.4	0.0292

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

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

SILICABLE® CSV and ECSV
-60°C to +220°C

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 fibreglass braid.

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.

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 — **INSULATED WIRE OR CABLE**

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.4*	12 x 0.20	52.4	0.45	2.0	7.2
0.5	16 x 0.20	39.0	0.45	2.1	8.4
0.6*	19 x 0.20	32.8	0.45	2.2	9.7
0.75	24 x 0.20	26.0	0.45	2.4	11.4
1	32 x 0.20	19.5	0.45	2.5	13.6
1.5	30 x 0.25	13.3	0.45	2.8	18.4
2.5	50 x 0.25	7.98	0.5	3.4	28.9
4	56 x 0.30	4.95	0.6	4.4	47.4
6	84 x 0.30	3.30	0.8	5.3	70.4
10	80 x 0.40	1.91	1.0	6.9	117
16	126 x 0.40	1.21	1.2	8.3	178
25	196 x 0.40	0.780	1.4	10.1	261
35	276 x 0.40	0.554	1.5	11.5	370
50	396 x 0.40	0.386	1.7	13.7	537
70	360 x 0.50	0.272	1.7	15.3	715
95	485 x 0.50	0.206	2.3	18.2	961
120	608 x 0.50	0.161	2.4	20.1	1222
150	756 x 0.50	0.129	2.4	22.0	1500
185	944 x 0.50	0.106	2.7	24.6	1844
240	1221 x 0.50	0.0801	3.2	28.6	2503
300	1525 x 0.50	0.0641	3.2	31.0	3082
400	2037 x 0.50	0.0486	3.2	34.6	3862

Option • RCSV and RECSV

Solid core • class 1 as per IEC 60228 — **INSULATED WIRE**

0.5	1 x 0.80	36.0	0.45	2.0	8.6
0.75	1 x 0.98	24.5	0.5	2.3	11.9
1	1 x 1.13	18.1	0.5	2.4	14.4
1.5	1 x 1.38	12.1	0.5	2.8	18.6
2.5	1 x 1.77	7.41	0.6	3.3	31.2
4**	1 x 2.24	4.61	0.8	4.2	50.1
6**	1 x 2.76	3.08	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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SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE®
CSVRI and ECSVRI
-60°C to +220°C

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.

Approvals - standards

- VERITAS approval certificate No. BV 153552.
- 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.

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				INSULATED WIRE		
Nominal cross-section (mm²)	Nominal stranding Class 5	Nominal stranding Alternative	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	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						
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						
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.

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

SILICABLE® H05SJ-K

USE ◁HAR▷ Approval

-60°C to +180°C

◁HAR▷

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.

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.

H05SJ-K

Flexible core • class 5 as per IEC 60228			INSULATED WIRE OR CABLE			
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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

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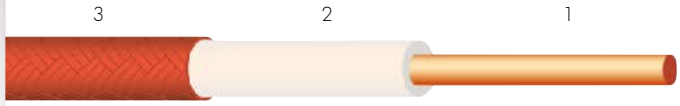
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE® H05SJ-U

USE ◁HAR▷ Approval

-60°C to +180°C

◁HAR▷



1 • Solid bare copper or tin-plated core – class 1 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.

- 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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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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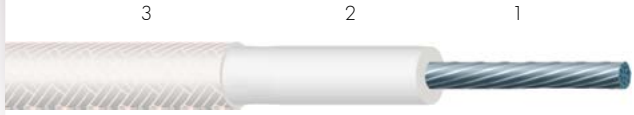
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE® 150°C

Silicone insulation with fibreglass braid UL approval



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.		3068		3132		3069 (26-20 AWG) 3070 (18-12 AWG)		3535	
Approval		150°C – 300 V		150°C – 300 V		150°C – 600 V		150°C – 600 V	
Nominal cross-section AWG	(mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
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

- NS Not Specified
- VNS Voltage Not Specified

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

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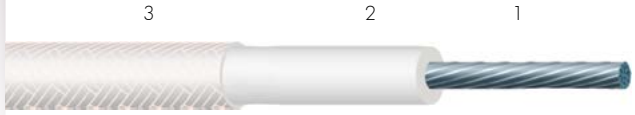
SILICABLE® 200°C

Silicone insulation with fibreglass braid UL approval



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 +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.
• "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. 3074, 3075, 3125, 3126, 3144, 3145, 3172, 3209.
• Vertical flame test VW-1 for style no. 3513 and 3122: contact us.

Style no.		3122		3071		3513		3645	
Approval		200°C – 300 V		200°C – 600 V		200°C – 600 V		200°C – 1000 V	
Nominal cross-section AWG	Nominal cross-section (mm²)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
26	0.13	0.38	1.5	-	-	-	-	1.14	3.1
24	0.22	0.38	1.7	-	-	-	-	1.14	3.2
22	0.34	0.38	1.9	-	-	-	-	1.14	3.5
-	0.5	0.38	2.0	-	-	0.76	2.8	1.14	3.7
20	0.6	0.38	2.1	-	-	0.76	2.9	1.14	3.9
-	0.75	0.38	2.2	-	-	0.76	3.0	1.14	4.0
18	0.93	0.38	2.3	0.76	3.1	0.76	3.1	1.14	4.1
-	1	0.38	2.4	0.76	3.2	0.76	3.2	1.14	4.2
16	1.34	0.38	2.6	0.76	3.6	0.76	3.6	1.14	4.3
-	1.5	0.38	2.7	0.76	3.7	0.76	3.7	1.14	4.5
14	-	-	-	0.76	4.0	0.76	4.0	1.14	4.8
-	2.5	-	-	0.76	4.1	0.76	4.1	1.14	4.9
12	-	-	-	-	-	0.76	4.5	1.14	5.1
-	4	-	-	-	-	0.76	4.7	1.14	5.4
10	-	-	-	-	-	1.14	5.8	1.14	5.8
-	6	-	-	-	-	1.14	6.0	1.14	6.0
8	-	-	-	-	-	1.14	6.6	1.52	7.3
-	10	-	-	-	-	1.52	8.0	1.52	8.0
6	-	-	-	-	-	1.52	8.9	1.52	8.9
-	16	-	-	-	-	1.52	9.5	1.52	9.5
4	-	-	-	-	-	1.52	10.7	1.52	10.7
-	25	-	-	-	-	1.52	11.1	1.52	11.1
2	35	-	-	-	-	1.52	11.9	1.52	11.9
1	-	-	-	-	-	2.03	14.4	2.03	14.4
-	50	-	-	-	-	2.03	15.1	2.03	15.1
1/0	-	-	-	-	-	2.03	15.6	2.03	15.6
2/0	70	-	-	-	-	2.03	16.5	2.03	16.5
3/0	-	-	-	-	-	2.03	18.2	2.03	18.2
-	95	-	-	-	-	2.03	18.4	2.03	18.4
4/0	-	-	-	-	-	2.41	20.5	2.03	19.7
-	120	-	-	-	-	2.41	20.9	2.03	20.1
250MCM	-	-	-	-	-	2.41	21.7	2.41	21.7
-	150	-	-	-	-	2.41	22.4	2.41	22.4
300MCM	-	-	-	-	-	2.41	23.6	2.41	23.6
350MCM	185	-	-	-	-	2.41	24.6	2.41	24.6
400MCM	-	-	-	-	-	2.41	25.6	2.41	25.6
-	240	-	-	-	-	2.41	26.9	2.41	26.9
500MCM	-	-	-	-	-	-	-	2.41	28.2
-	300	-	-	-	-	-	-	2.79	30.7
600MCM	-	-	-	-	-	-	-	2.79	31.3
700MCM	-	-	-	-	-	-	-	2.79	33.2
750MCM	400	-	-	-	-	-	-	2.79	34.2
Conducting metal		B*CDEF*G		B*CDEF*G		B*CD		B*CDEF*G	

KEY

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

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

NS Not Specified
VNS Voltage Not Specified

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

SILICABLE®
CSVCS and ECSVCS

Reinforced double insulating layer

-60°C to +180°C

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.

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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)		Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal diameter (mm)		
0.5	16 x 0.20	39.0	0.9	2.8	10.9
0.75	24 x 0.20	26.0	0.9	2.9	13.0
1	32 x 0.20	19.5	0.9	3.0	15.3
1.5	30 x 0.25	13.3	1.0	3.6	22.4
2.5	50 x 0.25	7.98	1.1	4.2	33.6
4	56 x 0.30	4.95	1.2	4.9	51.1
6	84 x 0.30	3.30	1.5	6.1	77.3
10	80 x 0.40	1.91	1.7	7.8	130
16	126 x 0.40	1.21	2.0	9.4	193
25	196 x 0.40	0.780	2.2	11.4	299
35	276 x 0.40	0.554	2.4	12.8	396
50	396 x 0.40	0.386	2.6	14.8	556

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

SILICABLE® CSP and ECSP
-60°C to +180°C

1 • Flexible bare copper (ref. CSP) or tin-plated (ref. ECSP) core - class 5 as per IEC 60228.
2 • Optional separating tape.
3 • Insulation: Silicone rubber.
4 • Reinforcement: Coated synthetic fibre braid.

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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.25*	8 x 0.20	78.9	0.4	1.8	5.4
0.5	16 x 0.20	39.0	0.4	2.0	7.9
0.75	24 x 0.20	26.0	0.4	2.2	10.3
1	32 x 0.20	19.5	0.4	2.3	12.5
1.5	30 x 0.25	13.3	0.4	2.7	17.7
2.5	50 x 0.25	7.98	0.5	3.3	29.6
4	56 x 0.30	4.95	0.6	4.1	45.0
6	84 x 0.30	3.30	0.8	5.1	68.7
10	80 x 0.40	1.91	1.0	7.2	122
16	126 x 0.40	1.21	1.2	8.6	180
25	196 x 0.40	0.780	1.4	10.4	277
35	276 x 0.40	0.554	1.6	11.9	373
50	396 x 0.40	0.386	1.8	14.1	542
70	360 x 0.50	0.272	1.8	15.9	726
95	485 x 0.50	0.206	2.2	18.2	964
120	608 x 0.50	0.161	2.3	20.7	1214
150	756 x 0.50	0.129	2.6	23.2	1522
185	944 x 0.50	0.106	2.7	25.2	1847
240	1221 x 0.50	0.0801	3.2	29.2	2512
300	1525 x 0.50	0.0641	3.2	31.6	3093
400	2037 x 0.50	0.0486	3.2	35.2	3807

* Nominal cross-section not included in IEC 60228.

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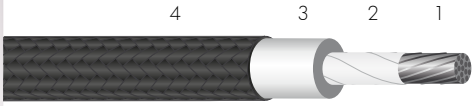
SILICABLE® ECSPRI
-60°C to +180°C



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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	40.1	0.35	1.9	7.2
0.75	24 x 0.20	26.7	0.4	2.2	10.2
1	32 x 0.20	20.0	0.4	2.3	12.3
1.5	30 x 0.25	13.7	0.4	2.7	17.7
2.5	50 x 0.25	8.21	0.5	3.3	28.2
4	56 x 0.30	5.09	0.6	4.1	44.6
6	84 x 0.30	3.39	0.8	5.1	67.8
10	80 x 0.40	1.95	0.9	7.0	121
16	126 x 0.40	1.24	1.1	8.4	179
25	196 x 0.40	0.795	1.3	10.2	278
35	276 x 0.40	0.565	1.4	11.6	372
50	396 x 0.40	0.393	1.7	13.8	534
70	360 x 0.50	0.277	1.7	15.4	703
95	485 x 0.50	0.210	2.1	18.0	942
120	608 x 0.50	0.164	2.3	20.0	1217

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

SILICABLE® HT

Style 3304 and Style 3573

Ignition wires
UL approval

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.

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.

Style no.		3304		3573	
Approval		200°C – 10000 V		200°C – 10000 V	
Nominal cross-section AWG	Nominal cross-section (mm²)	Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (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	

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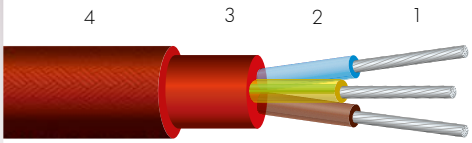
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE® VMC-ECS
-60°C to +180°C



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.

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.

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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	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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Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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:

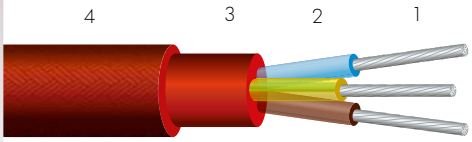
Number of conductors	With an earth wire	Without an earth wire
2	-	blue – brown
3	yellow/green – blue – brown	brown – black – grey
4	yellow/green – brown – black – grey	blue – brown – black – grey
5	yellow/green – blue – brown – black – grey	blue – brown – black – grey – black
≥ 6	yellow/green – grey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

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

SILICABLE® PMC-ECS
-60°C to +180°C



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.

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.

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

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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	-	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).

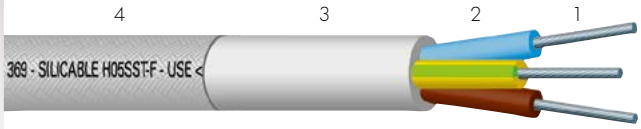
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE® H05SST-F

USE ◁HAR▷ Approval

-60°C to +180°C

◁HAR▷



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.

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.

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) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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

For this product, please contact:

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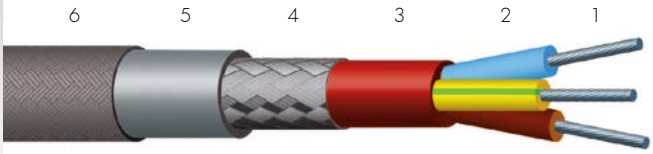
SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING BRAID

SILICABLE®
PMCBEC-ECS
-60°C to +180°C



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.

Approvals - standards

• Bureau VERITAS approval certificates no. 06466/D0 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.

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.

For this product, please contact:

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Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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	-	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

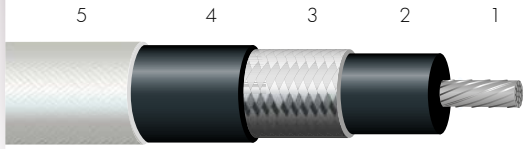
• Identification

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).

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

SILICABLE® ECSBECSP

-60°C to +180°C



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.

Approvals - standards

• Bureau VERITAS approval certificates no. 06465/D0 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.

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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
1.5	30 x 0.25	13.7	7.3	81
2.5	50 x 0.25	8.21	7.8	95
4	56 x 0.30	5.09	8.4	114
6	84 x 0.30	3.39	9.1	139
10	80 x 0.40	1.95	10.5	202
16	126 x 0.40	1.24	11.6	261
25	196 x 0.40	0.795	13.6	386
35	276 x 0.40	0.565	14.8	477
50	396 x 0.40	0.393	16.9	665
70	360 x 0.50	0.277	19.7	893
95	485 x 0.50	0.210	21.8	1129
120	608 x 0.50	0.164	24.1	1460
150	756 x 0.50	0.132	26.5	1788
185	944 x 0.50	0.108	28.9	2230
240	1221 x 0.50	0.0817	32.4	2859
300	1525 x 0.50	0.0654	35.5	3475

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

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

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.

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

Style no. 3779

Flexible core • class 2 or 5 as per IEC 60228					INSULATED WIRE OR CABLE	
Nominal cross-section	Nominal stranding		Maximum linear resistance at 20°C (Ω/km)		Nominal diameter	Approximate linear weight
(mm²)	Tin-plated copper	Nickel-plated copper	Tin-plated copper	Nickel-plated copper	(mm)	(kg/km)
0.6	-	19 x 0.20	-	36.0	2.9	9.8
0.75	-	24 x 0.20	-	26.7	3.1	13.6
1.0	7 x 0.43	32 x 0.20	18.2	20.0	3.2	17.6
1.5	7 x 0.52	30 x 0.25	12.2	13.7	3.5	22.7
2.5	19 x 0.40	50 x 0.25	7.56	8.21	4.0	33.8
4	32 x 0.40	56 x 0.30	4.70	5.09	4.9	53.2
6	40 x 0.40	84 x 0.30	3.11	3.39	5.9	72.8
10	77 x 0.40	-	1.95	-	7.0	121
16	119 x 0.40	-	1.24	-	8.4	179
25	192 x 0.40	-	0.795	-	10.4	278
35	259 x 0.40	-	0.565	-	12.8	372
50	370 x 0.40	-	0.393	-	14.5	534
70	333 x 0.50	-	0.277	-	16.7	703
95	444 x 0.50	-	0.210	-	18.1	950
120	568 x 0.50	-	0.164	-	21.7	1217
150	721 x 0.50	-	0.132	-	23.2	1560
185	888 x 0.50	-	0.108	-	25.5	1900
240	1184 x 0.50	-	0.0817	-	28.0	2400
300	1480 x 0.50	-	0.0654	-	31.5	3050
400	1924 x 0.50	-	0.0495	-	34.6	4000

For this product, please contact:

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

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

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

Approvals - standards

- EN 45545-2.
- 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.
- Excellent mechanical resistance.
- Bending radius in fixed installation: 2 x D.

Electrical

- Rated voltage: 3 kV.
- Test voltage: 10 kV.

Standard product

- Colour: black.

Marking

- OMERIN 369 – SILICABLE 150C 3000V 30133 AWM

SILICABLE® Style 30133

Extra-flexible core			INSULATED WIRE OR CABLE		
Part number	Nominal cross-section (mm²)	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	13.2	0.554
B1408002	50	0.10	1.75	15.9	0.386
B1408003	70	0.10	1.75	17.9	0.272
B1408004	95	0.10	1.75	19.8	0.206
B1408005	120	0.10	1.75	21.5	0.161
B1408006	150	0.10	1.75	23.4	0.129
B1408007	185	0.10	1.80	25.6	0.106
B1408008	240	0.10	1.80	31.2	0.0801
B1408009	300	0.10	1.95	31.9	0.0641

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VARPREN INSULATED WIRES AND CABLES

FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
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VARPREN® ST
-50°C to +155°C

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

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.

Characteristics

General

- Continuous operating temperatures: -50°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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	40.1	0.6	2.2	9.0
0.75	24 x 0.20	26.7	0.6	2.4	11.7
1	32 x 0.20	20.0	0.6	2.5	13.8
1.5	30 x 0.25	13.7	0.6	3.0	20.2
2.5	50 x 0.25	8.21	0.7	3.6	31.2
4	56 x 0.30	5.09	0.8	4.3	47.2
6	84 x 0.30	3.39	0.8	4.9	65.9
10	80 x 0.40	1.95	1.0	6.6	120
16	126 x 0.40	1.24	1.0	7.7	172
25	196 x 0.40	0.795	1.2	9.6	270
35	276 x 0.40	0.565	1.2	10.7	355
50	396 x 0.40	0.393	1.4	12.6	502
70	360 x 0.50	0.277	1.4	14.9	693
95	485 x 0.50	0.210	1.6	17.2	913

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VARPREN® F
-50°C to +155°C

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

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: -50°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® F

Flexible core • class 5 as per IEC 60228			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	16 x 0.20	40.1	0.6	2.2	9.0
0.75	24 x 0.20	26.7	0.6	2.4	11.7
1	32 x 0.20	20.0	0.6	2.5	13.8
1.5	30 x 0.25	13.7	0.6	3.0	20.2
2.5	50 x 0.25	8.21	0.7	3.6	31.2
4	56 x 0.30	5.09	0.8	4.3	47.2
6	84 x 0.30	3.39	0.8	4.9	65.9
10	80 x 0.40	1.95	1.0	6.6	120
16	126 x 0.40	1.24	1.0	7.7	172
25	196 x 0.40	0.795	1.2	9.6	270
35	276 x 0.40	0.565	1.2	10.7	355
50	396 x 0.40	0.393	1.4	12.6	502
70	360 x 0.50	0.277	1.4	14.9	693
95	485 x 0.50	0.210	1.6	17.2	913

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VARPREN®
H05Z-K and H07Z-K
USE ◁HAR▷ Approval
-15°C to +90°C

◁HAR▷

1 • Flexible tin-plated copper core – class 5 as per IEC 60228 / EN 60228.
2 • Insulation: Varpren® – type EI5 – NF C 32-525-1 / NF EN 50525-1 / EN 50363-1.

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. H05Z-R and H07Z-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 +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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
H05Z-K	0.5	16 x 0.20	40.1	0.6	2.1	2.6	9.0
H05Z-K	0.75	24 x 0.20	26.7	0.6	2.2	2.8	11.7
H05Z-K	1	32 x 0.20	20.0	0.6	2.4	2.9	13.8
H07Z-K	1.5	30 x 0.25	13.7	0.7	2.8	3.5	20.2
H07Z-K	2.5	50 x 0.25	8.21	0.8	3.4	4.3	31.2
H07Z-K	4	56 x 0.30	5.09	0.8	3.9	4.9	47.2
H07Z-K	6	84 x 0.30	3.39	0.8	4.4	5.5	65.9
H07Z-K	10	80 x 0.40	1.95	1.0	5.7	7.1	120
H07Z-K	16	126 x 0.40	1.24	1.0	6.7	8.4	172
H07Z-K	25	196 x 0.40	0.795	1.2	8.4	10.6	265
H07Z-K	35	276 x 0.40	0.565	1.2	9.7	12.1	355
H07Z-K	50	396 x 0.40	0.393	1.4	11.5	14.4	506
H07Z-K	70	360 x 0.50	0.277	1.4	13.2	16.6	679
H07Z-K	95	485 x 0.50	0.210	1.6	15.1	18.8	897
H07Z-K	120	608 x 0.50	0.164	1.6	16.7	20.9	1 142
H07Z-K	150	756 x 0.50	0.132	1.8	18.6	23.3	1 354
H07Z-K	185	944 x 0.50	0.108	2.0	20.6	25.8	1 766
H07Z-K	240	1 221 x 0.50	0.0817	2.2	23.5	29.4	2 342

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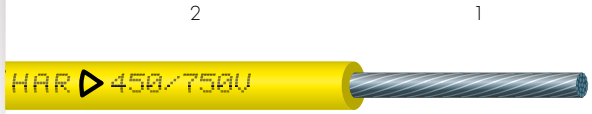
VARPREN®
H05G-K and H07G-K
USE ◁HAR▷ Approval
-15°C to +110°C

◁HAR▷



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.

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 (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
H05G-K	0.5	16 x 0.20	40.1	0.6	2.1	2.6	9.6
H05G-K	0.75	24 x 0.20	26.7	0.6	2.2	2.8	12.0
H05G-K	1	32 x 0.20	20.0	0.6	2.4	2.9	14.5
H07G-K	1.5	30 x 0.25	13.7	0.8	3.0	3.7	22.4
H07G-K	2.5	50 x 0.25	8.21	0.9	3.6	4.5	34.6
H07G-K	4	56 x 0.30	5.09	1.0	4.3	5.4	52.2
H07G-K	6	84 x 0.30	3.39	1.0	4.8	6.0	71.0
H07G-K	10	80 x 0.40	1.95	1.2	6.0	7.6	121
H07G-K	16	126 x 0.40	1.24	1.2	7.1	8.9	175
H07G-K	25	196 x 0.40	0.795	1.4	8.8	11.0	274
H07G-K	35	276 x 0.40	0.565	1.4	10.1	12.6	368
H07G-K	50	396 x 0.40	0.393	1.6	11.9	14.9	522
H07G-K	70	360 x 0.50	0.277	1.6	13.6	17.0	702
H07G-K	95	485 x 0.50	0.210	1.8	15.5	19.3	914
H07G-K	120	608 x 0.50	0.164	1.8	17.1	21.4	1 168
H07G-K	150	756 x 0.50	0.132	2.0	19.0	23.8	1 411
H07G-K	185	944 x 0.50	0.108	2.2	21.0	26.3	1 817
H07G-K	240	1 221 x 0.50	0.0817	2.4	23.9	29.9	2 396

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VARPREN® 125
-50°C to +125°C

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

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.

VARPREN® 125

Flexible core • class 5 as per IEC 60228			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.34*	19 x 0.16	60.6	0.4	1.6	5.8
0.5	19 x 0.18	40.1	0.4	1.7	7.0
0.75	24 x 0.20	26.7	0.5	2.2	10.6
1	32 x 0.20	20.0	0.6	2.5	13.8
1.5	30 x 0.25	13.7	0.6	2.8	18.8
2.5	50 x 0.25	8.21	0.7	3.4	29.5
4	56 x 0.30	5.09	0.7	4.0	44.1
6	84 x 0.30	3.39	0.8	4.7	63.5
10	80 x 0.40	1.95	0.8	6.1	112
16	123 x 0.40	1.24	0.8	7.3	164
25	189 x 0.40	0.795	0.9	8.9	254
35	266 x 0.40	0.565	0.9	10.2	342
50	377 x 0.40	0.393	1.1	12.0	484
70	340 x 0.50	0.277	1.2	14.2	668
95	444 x 0.50	0.210	1.3	16.0	865
120	568 x 0.50	0.164	1.4	18.0	1120
150	721 x 0.50	0.132	1.6	20.6	1379
185	888 x 0.50	0.108	1.7	22.5	1766
240	1184 x 0.50	0.0817	1.8	25.4	2316

* Nominal cross-section not described in IEC 60228.

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VARPREN® 155
-50°C to +155°C

RPC COMPLIANT WITH EN 50575 EUROCLASSES CERTIFIED
Cca

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

Approvals - standards

- Euroclasse Cca s2, d2, a2 from 6mm² to 70mm²
- 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.

VARPREN® 155

Flexible core • class 5 as per IEC 60228			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.34*	19 x 0.16	60.6	0.4	1.6	5.8
0.5	19 x 0.18	40.1	0.4	1.7	7.0
0.75	24 x 0.20	26.7	0.5	2.2	10.6
1	32 x 0.20	20.0	0.6	2.5	13.8
1.5	30 x 0.25	13.7	0.6	2.8	18.8
2.5	50 x 0.25	8.21	0.7	3.4	29.5
4	56 x 0.30	5.09	0.7	4.0	44.1
6	84 x 0.30	3.39	0.8	4.7	63.5
10	80 x 0.40	1.95	0.8	6.1	112
16	123 x 0.40	1.24	0.8	7.3	164
25	189 x 0.40	0.795	0.9	8.9	254
35	266 x 0.40	0.565	0.9	10.2	342
50	377 x 0.40	0.393	1.1	12.0	484
70	340 x 0.50	0.277	1.2	14.2	668
95	444 x 0.50	0.210	1.3	16.0	865
120	568 x 0.50	0.164	1.4	18.0	1120
150	721 x 0.50	0.132	1.6	20.6	1379
185	888 x 0.50	0.108	1.7	22.5	1766
240	1184 x 0.50	0.0817	1.8	25.4	2316

* Nominal cross-section not described in IEC 60228.

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VARPREN® 105 UL

105°C lead wires
UL and cUL approval

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

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.

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.

Style no.		3781		
Approval			105 °C – 1000 V	
Nominal cross-section AWG	Nominal cross-section (mm²)	Nominal stranding	Avg thickness of insulation (mm)	Nominal diameter* (mm)
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.

* 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® 125 UL

Class B lead wires
UL and cUL approval

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

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.

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 AWG	Nominal cross-section (mm²)	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)
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

C US

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

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.

Characteristics

General

- Continuous operating temperatures: -30°C to +150°C.
- Temperature: -55 °C, see PV CP251002-01.
- 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®	
Nominal cross-section AWG	Nominal cross-section (mm²)	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)
-	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	6.5	1.14	6.5
6	-	105 x 0.40	-	-	1.52	8.4	1.52	8.4
-	16	119 x 0.40	-	-	1.52	8.6	1.52	8.6
4	-	168 x 0.40	-	-	1.52	9.8	1.52	9.8
-	25	196 x 0.40	-	-	1.52	10.0	1.52	10.0
2	35	259 x 0.40	-	-	1.52	11.1	1.52	11.1
1	-	342 x 0.40	-	-	2.04	13.3	2.04	13.3
-	50	370 x 0.40	-	-	2.04	14.0	2.04	14.0
1/0	-	425 x 0.40	-	-	2.04	14.6	2.04	14.6
2/0	70	340 x 0.50	-	-	2.04	15.9	2.04	15.9
3/0	-	434 x 0.50	-	-	2.04	17.0	2.04	17.5
-	95	475 x 0.50	-	-	2.04	17.5	2.04	17.5
		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® 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			INSULATED WIRE OR CABLE		
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	19 x 0.18	40.1	0.3	1.6	6.5
0.75	24 x 0.20	26.7	0.3	1.8	9.6
1	32 x 0.20	20.0	0.3	2.0	12.4
1.5	30 x 0.25	13.7	0.3	2.3	17.0
2*	28 x 0.30	10.3	0.35	2.7	21.8
2.5	50 x 0.25	8.21	0.35	2.9	27.6
3*	44 x 0.30	6.83	0.4	3.2	34.3
4	52 x 0.30	5.09	0.4	3.6	41.8
6	84 x 0.30	3.39	0.4	4.3	58.3
10	80 x 0.40	1.95	0.6	5.8	106
16	123 x 0.40	1.24	0.65	7.2	160
25	189 x 0.40	0.795	0.65	8.8	250
35	266 x 0.40	0.565	0.8	10.0	334
50	377 x 0.40	0.393	0.9	11.8	474
70	340 x 0.50	0.277	1.0	14.2	662

* Nominal cross-sections not described in IEC 60228.

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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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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: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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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VARPREN® H05GG-F

USE ◁HAR▷ Approval

-15°C to +110°C

◁HAR▷

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.

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.

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).

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) min.	Nominal diameter (mm) max.	Approximate linear weight (kg/km)
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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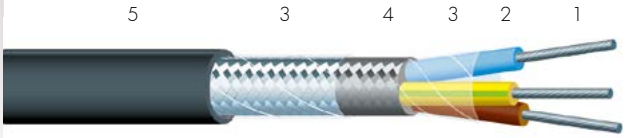
VARPREN® MVA-C-VA

-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).

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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: Nominal thickness of insulation (mm)	INSULATED CONDUCTORS: Nominal diameter (mm)	SHEATHED CABLE: Nominal diameter (mm)	SHEATHED CABLE: 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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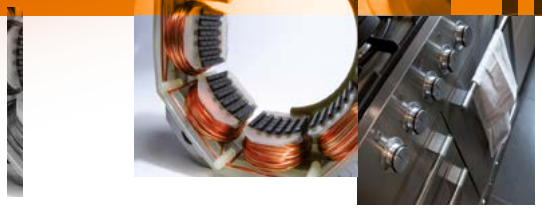

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