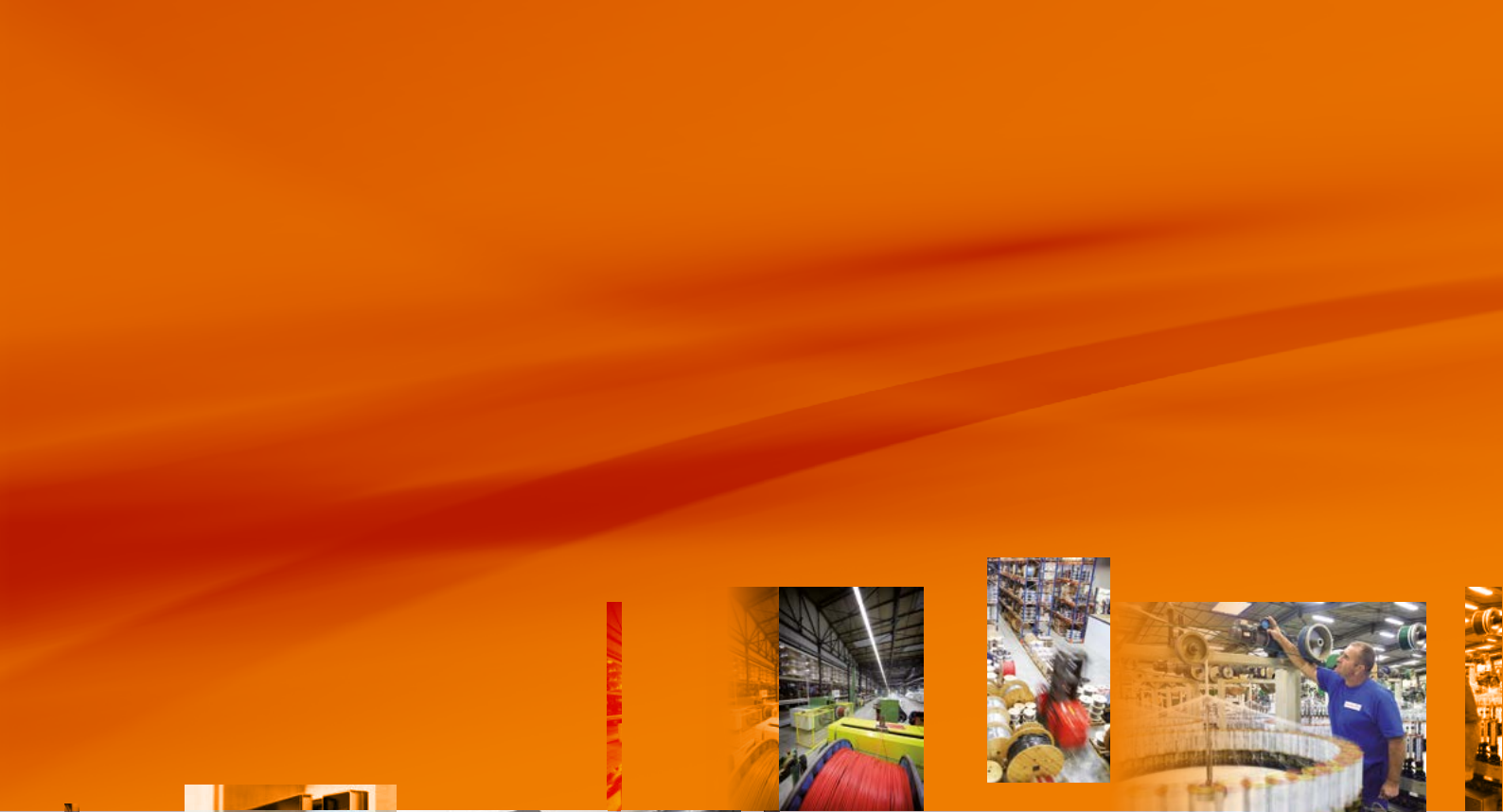


1

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

omerin
LES CABLES DE L'EXTREME

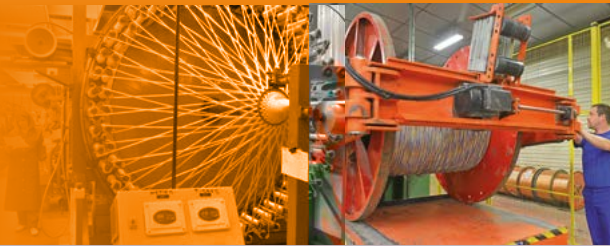


- **The world's leading manufacturer of silicone-insulated wires and cables**
- **Europe's leading manufacturer of glass-yarn braids**
- **France's leading manufacturer of fire safety cables**

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 sleeveings, door seals for ovens, fireproof sleeveings, 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

1

SECTION I: CROSS LINKED ELASTOMERS

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET

2

SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET

3

SECTION III: COMPOSITE INSULATIONS

FIRE RESISTANT SAFETY CABLES

4

CABLE SOLUTIONS FOR ROLLING STOCK

5

CABLES FOR POWER STATIONS AND HIGH-RISK SITES

6

MARINE CABLES

7

PYROMETRY CABLES

8

BRAIDED INSULATING SLEEVEINGS

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

SILIGAIN® Braided insulating sleeveings

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

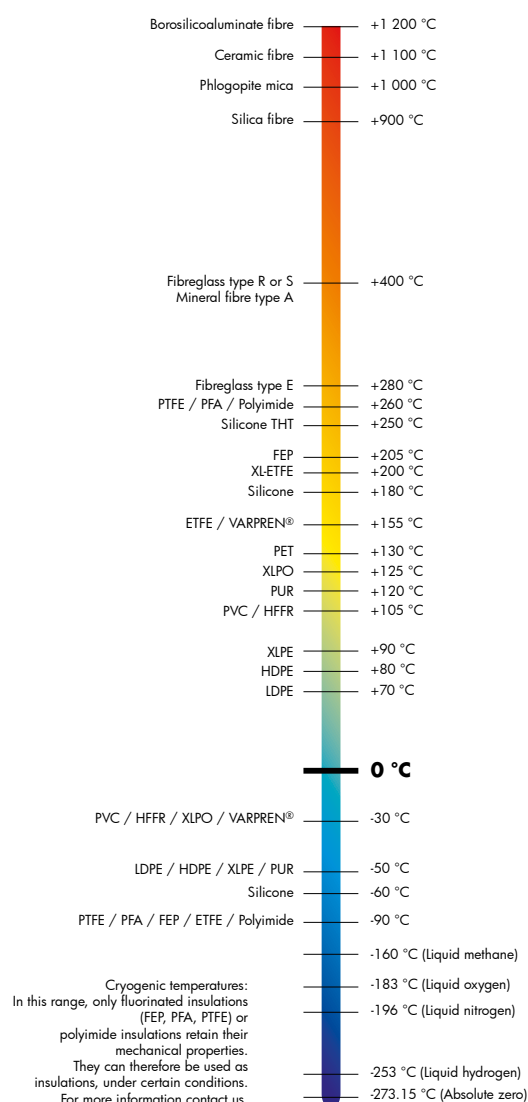
VARPREN® Wires and cables with special cross-linked Varpren® insulation

VEROX® Fiberglass braided seals

VIDEOCOAX® Analog and digital video cables



Thermal classification of insulations



Contents

**SILICONE INSULATED AND/OR
SHEATHED WIRES AND CABLES**

FT 1101 to 1138

Pages 6 to 59

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

FT 1201 to 1225

Pages 62 to 82

**VARPREN INSULATED
WIRES AND CABLES**

FT 1301 to 1313

Pages 84 to 98

Product list

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

FTNo.	PRODUCT REFERENCE	PAGE
1101	SILICABLE CS and ECS.....	6
1102	SILICABLE RCS and RECS	7
1103	SILICABLE H05S-K and H05S-U.....	8
1104	SILICABLE H05SS-K.....	9
1105	SILICABLE SIF and N2GFAF / SIR / SIE and N2GFA.....	10
1106	SILICABLE SIR-IDC.....	11
1107	SILICABLE CS-ES and ECS-ES	12
1108	SILICABLE CSC and ECSC	13
1109	SILICABLE ECSC-VDE and CNCSC-VDE	14
1110	SILICABLE CS-THT and ECS-THT.....	15
1111	SILICABLE RCS-THT and RECS-THT	16
1112	SILICABLE 105 °C	17
1113	SILICABLE 150 °C	18
1114	SILICABLE 200 °C	20
1114	SILICABLE 250 °C	22
1115	SILICABLE CS-HRD and ECS-HRD.....	24
1116	SILICABLE CS-FRNC and ECS-FRNC	25
1117	SILICABLE HT	26
1118	SILICABLE ECS-HT VDE.....	28

FTNo.	PRODUCT REFERENCE	PAGE
1119	SILICABLE Type B, L, C2 and D2	29
1120	SILICABLE MC-ECS	30
1121	SILICABLE MCBE-ECS and MCBAL-ECS.....	32
1122	SILICABLE MC-HRD	34
1123	SILICABLE MCBE-HRD	36
1124	SILICABLE H05SS-F	38
1125	SILICABLE H05SS-F HRD.....	40
1126	SILICABLE MC-EFEP.....	42
1127	SILICABLE MCBE-EFEP	44
1128	SILICABLE 150 °C - Silicone insulation	46
1129	SILICABLE 200 °C - Silicone insulation	48
1130	SILICABLE 150 °C - Fluoropolymer insulation.....	50
1131	SILICABLE 200 °C - Fluoropolymer insulation.....	52
1132	SILICABLE M-CS-TBT	54
1133	SILICABLE SIZ-VDE	55
1134	SILISOL SIHF-TBT	56
1135	SILICABLE Style 3858.....	57
1136	SILICABLE Style 30122.....	58
1137	SILICABLE Style 30123.....	59

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

FTNo.	PRODUCT REFERENCE	PAGE
1201	SILICABLE CSV and ECSV.....	62
1202	SILICABLE CSVRI and ECSVRI.....	63
1203	SILICABLE H05SJ-K	64
1204	SILICABLE H05SJ-U	65
1205	SILICABLE 150°C	66
1206	SILICABLE 200°C	67
1207	SILICABLE CSVCS and ECSVCS	68
1208	SILICABLE CSP and ECSP	69
1209	SILICABLE ECSPRI	70

FTNo.	PRODUCT REFERENCE	PAGE
1210	SILICABLE Style 3304 and 3573 - Ignition wires	71
1219	SILICABLE VMC-ECS	72
1220	SILICABLE PMC-ECS	74
1221	SILICABLE H05SST-F	76
1222	SILICABLE PMCBEC-ECS	78
1223	SILICABLE ECSBECSP	80
1224	SILICABLE Style 3779	81
1225	SILICABLE Style 30133.....	82

VARPREN INSULATED WIRES AND CABLES

FTNo.	PRODUCT REFERENCE	PAGE
1301	VARPREN ST	84
1302	VARPREN F.....	85
1303	VARPREN H05ZK and H07Z-K	86
1304	VARPREN H05G-K and H07G-K.....	87
1305	VARPREN 125.....	88
1306	VARPREN 155.....	89
1309	VARPREN 105 UL – 105°C lead wires.....	90

FTNo.	PRODUCT REFERENCE	PAGE
1307	VARPREN 125 UL – Class B lead wire.....	91
1308	VARPREN 155 UL – Class F lead wire.....	92
1310	VARPREN FLR.....	93
1311	VARPREN MVA	94
1312	VARPREN H05GG-F	96
1313	VARPREN MVA-C-VA.....	98

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
1101	SILICABLE CS and ECS		6
1102	SILICABLE RCS and RECS		7
1103	SILICABLE H05S-K and H05S-U	<HARD>	8
1104	SILICABLE H05SS-K	<HARD>	9
1105	SILICABLE SIF and N2GFAF / SIR / SIE and N2GFA		10
1106	SILICABLE SIR-IDC		11
1107	SILICABLE CS-ES and ECS-ES		12
1108	SILICABLE CSC and ECSC		13
1109	SILICABLE ECSC-VDE and CNCSC-VDE		14
1110	SILICABLE CS-THT and ECS-THT		15
1111	SILICABLE RCS-THT and RECS-THT		16
1112	SILICABLE 105 °C - Silicone insulation		17
1113	SILICABLE 150 °C - Silicone insulation		18
1114	SILICABLE 200 °C - Silicone insulation		20
1138	SILICABLE 250 °C - Silicone insulation		22
1115	SILICABLE CS-HRD and ECS-HRD		24
1116	SILICABLE CS-FRNC and ECS-FRNC		25
1117	SILICABLE HT - Ignition wires		26
1118	SILICABLE ECS-HT VDE - Ignition wire		28
1119	SILICABLE Type B, L, C2 and D2 - Illuminated sign cables	<HARD>	29
1120	SILICABLE MC-ECS		30
1121	SILICABLE MCBE-ECS and MCBAE-ECS		32
1122	SILICABLE MC-HRD		34
1123	SILICABLE MCBE-HRD		36
1124	SILICABLE H05SS-F	<HARD>	38
1125	SILICABLE H05SS-F HRD	<HARD>	40
1126	SILICABLE MC-EFEP		42
1127	SILICABLE MCBE-EFEP		44
1128	SILICABLE 150 °C - Silicone insulation and sheathing		46
1129	SILICABLE 200 °C - Silicone insulation and sheathing		48
1130	SILICABLE 150 °C - Fluoropolymer insulation and silicone sheathing		50
1131	SILICABLE 200 °C - Fluoropolymer insulation and silicone sheathing		52
1132	SILICABLE M-CS-TBT		54
1133	SILICABLE SIZ-VDE		55
1134	SILISOL SIHF-TBT		56
1135	SILICABLE Style 3858		57
1136	SILICABLE Style 30122		58
1137	SILICABLE Style 30123		59

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

SILICABLE® CS and ECS -60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Approvals - standards

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

Applications

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

Options

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

Characteristics General

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

Electrical

S < 2.5 mm² **S ≥ 2.5 mm²**

- Rated voltage: 300/500 V 600/1000 V.
- Test voltage: 2000 V 3000 V.

Standard products

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

CS and ECS

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

Option • CS and ECS

Stranded core • class 2 as per IEC 60228

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

INSULATED WIRE

0.6	2.0	8.1
0.6	2.4	12.0
0.6	2.5	14.4
0.6	2.7	19.0
0.7	3.4	30.9
0.8	4.2	48.6
0.8	4.7	67.8

* Nominal cross-sections not described in IEC 60228.

www.omerin.com

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

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

SILICABLE® RCS and RECS Solid core -60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Approvals - standards

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

Applications

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

Options

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

Characteristics

General

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

Electrical

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

Standard products

- All colours including two-coloured.

RCS and RECS

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.38	12.1
2.5	1 x 1.77	7.41
4*	1 x 2.24	4.61
6*	1 x 2.76	3.08

INSULATED WIRE

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® H05S-K and H05S-U

USE <HAR> Approval

-60°C to +180°C

<HAR>

Approvals - standards

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

Applications

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

Characteristics

General

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

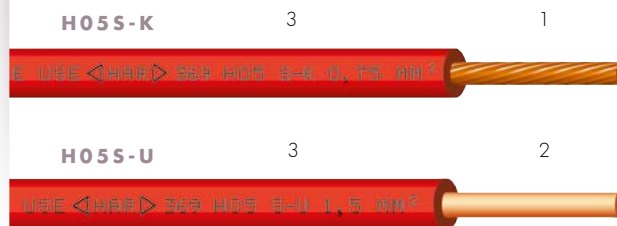
Electrical

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

Standard products

- All colours including two-coloured.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

H05S-K

Flexible core • class 5 as per IEC 60228

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

H05S-U

Solid core • class 1 as per IEC 60228

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

SILICABLE® H05SS-K

Double insulating layer

USE <HAR> Approval

-60°C to +180°C

<HAR>

Approvals - standards

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

Applications

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

Characteristics

General

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

Electrical

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

Standard products

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



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

H05SS-K

Flexible core • class 5 as per IEC 60228			INSULATED WIRE				
Nominal cross-section (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:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

omerin
LES CABLES DE L'EXTREME

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

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

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



Approvals - standards

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

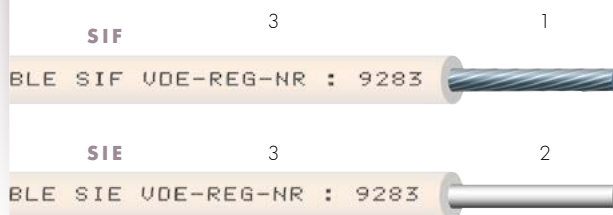
Applications

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

Options

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Characteristics General

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

Electrical

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

Standard products

- All colours including two-coloured.

SIF

Flexible core • class 5 as per IEC 60228

Nominal cross-section (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	-	0.6	1.9	5.9
0.5	7 x 0.30	-	0.6	2.1	8.6
0.75	7 x 0.37	11 x 0.30	0.6	2.4	12.0
1	7 x 0.43	14 x 0.30	0.6	2.5	14.4
1.5	7 x 0.52	21 x 0.30	0.7	3.0	21.0
2.5	7 x 0.67	35 x 0.30	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

For this product, please contact:

OMERIN division principale ☒

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol ☐

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® SIR-IDC

For IDC connectors
VDE approval

-60°C to +180°C



Approvals - standards

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

Applications

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

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

Options

- Other nominal stranding: contact us.

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.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

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.

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® CS-ES and ECS-ES Extra-flexible core -60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILCABLE® CSC and ECSC Double insulating layer -60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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

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

INSULATED WIRE OR CABLE

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

Option • CSC and ECSC

Stranded core • class 2 as per IEC 60228

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

INSULATED WIRE

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

For this product, please contact:

OMERIN division principale

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

OMERIN division silişol

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® ECSC-VDE and CNCSC-VDE Double insulating layer VDE approval -60 °C to +180 °C



Approvals - standards

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

Applications

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

Options

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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.

Characteristics General

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

Electrical

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

Standard products

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

ECSC-VDE and CNCSC-VDE

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (tin-plated copper core)	INSULATED WIRE		Nominal diameter (mm)	Approximate linear weight (kg/km)
			Nominal thickness of insulation (mm) on the inner layer	Nominal thickness of insulation (mm) on the outer layer		
0.5	16 x 0.20	40.1	0.6	0.6	3.3	14.7
0.75	24 x 0.20	26.7	0.6	0.6	3.6	18.6
1	32 x 0.20	20.0	0.6	0.6	3.7	21.3
1.5	30 x 0.25	13.7	0.7	0.7	4.4	30.4
2.5	50 x 0.25	8.21	0.8	0.8	5.2	45.5

Option • RECSC-VDE

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm²)	Nominal diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)	INSULATED WIRE		Nominal diameter (mm)	Approximate linear weight (kg/km)
			Nominal thickness of insulation (mm) on the inner layer	Nominal thickness of insulation (mm) on the outer layer		
0.5	1 x 0.80	36.7	0.6	0.6	3.2	14.2
0.75	1 x 0.98	24.8	0.6	0.6	3.4	17.5
1	1 x 1.13	18.2	0.6	0.6	3.6	20.9
1.5	1 x 1.38	12.2	0.7	0.7	4.2	29.4
2.5	1 x 1.77	7.56	0.8	0.8	5.0	44.4

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

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

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

INSULATED WIRE

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

Option • CS-THT and ECS-THT

Stranded core • class 2 as per IEC 60228

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

INSULATED WIRE

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

* Nominal cross-section not included in IEC 60228.

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® RCS-THT and RECS-THT

Solid core

Very high temperature insulation

-60°C to +250°C

Approvals - standards

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

Applications

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

Options

- 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.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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.

RCS-THT and RECS-THT

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.38	12.1
2.5	1 x 1.77	7.41
4*	1 x 2.24	4.61
6*	1 x 2.76	3.08

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.6	2.0	7.6
0.6	2.2	10.4
0.6	2.4	13.1
0.6	2.6	17.9
0.7	3.2	28.7
0.8	3.9	44.8
0.8	4.4	64.6

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® 105°C Silicone insulation UL and cUL approval



SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

2

1

105C 600V FT2 SILICABLE 105C 3171 AWM

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

Approvals - standards

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

Applications

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

Options

- Other nominal cross-sections: contact us.

Characteristics General

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

Electrical

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

Standard products

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

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

KEY

Conducting metals

B Tin-plated copper

B* Tin-plated copper (ø > 0.38 mm)

C Nickel-plated copper

D Silver-plated copper

E Nickel

F Bare copper

F* Bare copper (ø > 0.38 mm)

G Nickel-plated copper 27 %

AWM I A Internal wiring, not subject to mechanical abuse

AWM I A/B Internal wiring

AWM II A/B External or Internal wiring

NS Not Specified

VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® 150°C Silicone insulation UL and cUL approval



Characteristics General

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

Electrical

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

Standard products

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

Approvals - standards

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

Applications

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

Options

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

2

1



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

Style no.	3099	3132	3123	3133
Approval	150°C – 300 V (cUL 600 V)	150°C – 300 V	150°C – 600 V	150°C – 600 V
Nominal cross-section	Average thickness of insulation	Nominal diameter*	Average thickness of insulation	Nominal diameter*
AWG (mm²)	(mm)	(mm)	(mm)	(mm)
26 0.13	-	-	0.38 1.2	0.76 2.0
24 0.22	-	-	0.38 1.4	0.76 2.1
22 0.34	-	-	0.38 1.55	0.76 2.35
- 0.5	-	-	0.38 1.7	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.

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

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

omerin
 LES CABLES DE L'EXTREME

www.omerin.com

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

Style no.		3134		3137		3138		3529		3536		3580	
Approval		150°C – 600 V		150°C – 600 V		150°C – 600 V		150°C – 600 V		150°C – 600 V		150°C – 1000 V	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*
AWG	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
26	0.13	-	-	1.14	2.8	-	-	0.76	2.0	-	-	1.14	2.8
24	0.22	-	-	1.14	2.9	-	-	0.76	2.1	-	-	1.14	2.9
22	0.34	-	-	1.14	3.05	-	-	0.76	2.35	-	-	1.14	3.05
-	0.5	-	-	1.14	3.2	-	-	0.76	2.5	0.76	2.5	1.14	3.2
20	0.6	-	-	1.14	3.4	-	-	0.76	2.5	0.76	2.5	1.14	3.4
-	0.75	-	-	-	-	-	-	0.76	2.7	0.76	2.7	1.14	3.5
18	0.93	0.76	2.7	-	-	1.14	3.6	0.76	2.8	0.76	2.8	1.14	3.6
-	1	0.76	2.9	-	-	1.14	3.7	0.76	2.9	0.76	2.9	1.14	3.7
16	1.34	0.76	3.1	-	-	1.14	3.8	0.76	3.1	0.76	3.1	1.14	3.8
-	1.5	0.76	3.2	-	-	1.14	4.0	0.76	3.2	0.76	3.2	1.14	4.0
14	-	0.76	3.6	-	-	1.14	4.3	0.76	3.5	0.76	3.5	1.14	4.3
-	2.5	0.76	3.6	-	-	1.14	4.4	0.76	3.6	0.76	3.6	1.14	4.4
12	-	0.76	4.0	-	-	1.14	4.6	0.76	4.0	0.76	4.0	1.14	4.6
-	4	0.76	4.2	-	-	1.14	4.9	0.76	4.2	0.76	4.2	1.14	4.9
10	-	-	-	-	-	1.14	5.3	1.14	5.3	1.14	5.3	1.14	5.3
-	6	-	-	-	-	1.14	5.6	1.14	5.6	1.14	5.5	1.14	5.6
8	-	-	-	-	-	-	-	1.52	6.8	1.14	6.3	1.52	6.8
-	10	-	-	-	-	-	-	1.52	7.5	1.52	7.6	1.52	7.4
6	-	-	-	-	-	-	-	1.52	8.4	1.52	8.4	1.52	8.4
-	16	-	-	-	-	-	-	1.52	9.0	1.52	9.0	1.52	9.0
4	-	-	-	-	-	-	-	1.52	10.2	1.52	10.2	1.52	10.2
-	25	-	-	-	-	-	-	1.52	10.6	1.52	10.6	1.52	10.6
2	35	-	-	-	-	-	-	1.52	11.4	1.52	11.4	1.52	11.4
1	-	-	-	-	-	-	-	2.03	13.9	2.03	13.9	2.03	13.9
-	50	-	-	-	-	-	-	2.03	14.6	2.03	14.6	2.03	14.6
1/0	-	-	-	-	-	-	-	2.03	15.0	2.03	15.0	2.03	15.0
2/0	70	-	-	-	-	-	-	2.03	15.9	2.03	15.9	2.03	15.9
3/0	-	-	-	-	-	-	-	2.03	17.6	2.03	17.6	2.03	17.6
-	95	-	-	-	-	-	-	2.03	17.8	2.03	17.8	2.03	17.8
4/0	-	-	-	-	-	-	-	2.03	19.1	2.41	19.9	2.03	19.1
-	120	-	-	-	-	-	-	2.03	19.5	2.41	20.3	2.03	19.5
250MCM	-	-	-	-	-	-	-	2.41	21.1	2.41	21.1	2.41	21.1
-	150	-	-	-	-	-	-	2.41	21.8	2.41	21.8	2.41	21.8
300MCM	-	-	-	-	-	-	-	2.41	23.0	2.41	23.0	2.41	23.0
350MCM	185	-	-	-	-	-	-	2.41	24.0	2.41	24.0	2.41	24.0
400MCM	-	-	-	-	-	-	-	2.41	25.0	2.41	25.0	2.41	25.0
-	240	-	-	-	-	-	-	2.41	26.3	2.41	26.3	2.41	26.3
500MCM	-	-	-	-	-	-	-	2.41	27.6	-	-	2.41	27.6
-	300	-	-	-	-	-	-	2.79	30.1	-	-	-	-
600MCM	-	-	-	-	-	-	-	2.79	30.7	-	-	-	-
700MCM	-	-	-	-	-	-	-	2.79	32.6	-	-	-	-
750MCM	400	-	-	-	-	-	-	2.79	33.6	-	-	-	-
Conducting metal		BCDEG		BCDEG		BCDEG		BCDEFG		BCDEFG		BCDEFG	

KEY

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

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

NS Not Specified
 VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

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

omerin
 LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® 200°C Silicone insulation UL and cUL approval



Characteristics General

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

Electrical

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

Standard products

- 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 (L184986).
- "Horizontal flame test" as per UL approval.
- "FT2 flame rating" as per cUL approval.
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

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

Options

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

For this product, please contact:

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

OMERIN division siliisol □

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

omerin
LES CABLES DE L'EXTREME

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

2

1



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

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		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)
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.

* 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.

www.omerin.com

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

Style no.		3268		3512**		3530		3755		30096		3572		3644	
Approval		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 600 V		200°C – 750 V		200°C – 1000 V (cUL 600 V)		200°C – 1000 V (cUL 600 V)	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*	Average thickness of insulation (mm)	Nominal diameter*
AWG	(mm²)		(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	3.2	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	5.4	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	

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

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).

www.omerin.com

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

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

SILICABLE® 250°C Silicone insulation UL approval



SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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. Approval

		3253		30144		30145	
		250 °C - 300 V		250 °C - 600 V		250 °C - 1000 V	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)						
26	0.13	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
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	2.8	0.76	2.8	0.76	2.8
-	1	0.76	2.8	0.76	2.8	0.76	2.8
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	3.6	0.76	3.6	0.76	3.6
-	2.5	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
-	4	0.76	4.4	0.76	4.4	0.76	4.4
		CEG		CEG		CEG	

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

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

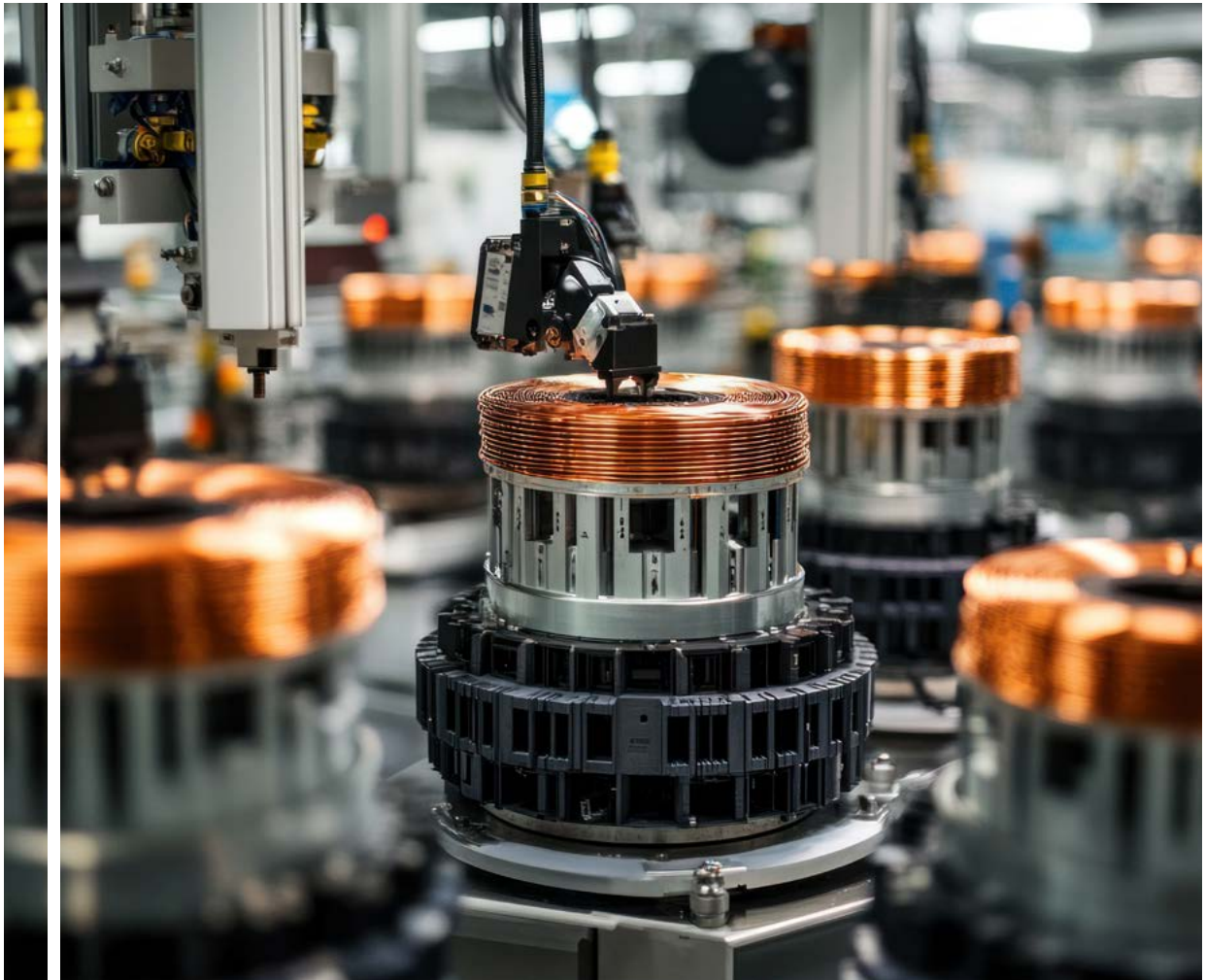
VNS Voltage Not Specified

■: 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.

www.omerin.com

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



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

SILICABLE® CS-HRD and ECS-HRD Insulation with improved mechanical strength -60°C to +180°C

Approvals - standards

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

Applications

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

Options

- Nickel-plated copper core: ref. CNCS-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.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Characteristics General

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

Electrical

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

Standard products

- All colours including two-coloured.

CS-HRD and ECS-HRD

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE

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

Option • CS-HRD and ECS-HRD

Stranded core • class 2 as per IEC 60228

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

INSULATED WIRE

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

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® CS-FRNC and ECS-FRNC Improved flame resistance -60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98

INSULATED WIRE

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

Option • CS-FRNC and ECS-FRNC

Stranded core • class 2 as per IEC 60228

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

INSULATED WIRE

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® HT

Ignition wires

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

ECS-HT

2

1



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

Approvals - standards

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

Applications

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

Options

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

Characteristics General

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

Electrical

- Pulse voltage: from 15 to 30 kV.

Standard products

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

15 KV*

20 KV*

25 KV*

30 KV*

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)	Nominal diameter (mm)	Approx. linear weight (kg/km)
CS-HT										
0.25	8 x 0.20 or 14 x 0.15	82.9	2.7	10.2	3.4	15.1	4.8	28.3	6.3	47.6
0.34	7 x 0.25 or 19 x 0.16	59.2	2.8	11.5	3.5	16.6	4.9	30.2	6.4	49.7
0.5	7 x 0.30 or 16 x 0.20	40.1	3.0	13.9	3.7	19.3	5.0	33.6	6.6	53.8
0.6	19 x 0.20	33.7	3.0	14.6	3.7	20.0	5.2	34.2	6.6	54.5
0.75	24 x 0.20	26.7	3.2	17.1	3.9	22.9	5.3	37.7	6.8	58.7
0.93	19 x 0.25	21.6	3.3	19.2	4.0	25.1	5.4	40.3	6.9	61.6
1	32 x 0.20	20.0	3.4	20.4	4.1	26.5	5.5	42.0	7.0	63.6
1.34	19 x 0.30	15.0	3.5	23.6	4.2	29.9	5.6	45.7	7.1	67.7
1.5	30 x 0.25	13.7	3.6	25.3	4.3	31.7	5.8	47.9	7.2	70.2
2.5	50 x 0.25	8.21	4.0	36.7	4.8	43.9	6.2	61.7	7.7	85.7
4	56 x 0.30	5.09	4.6	52.3	5.3	60.3	6.7	79.7	8.2	106

CSV-HT

0.34	7 x 0.25 or 19 x 0.16	59.2	2.8	11.5	3.5	16.6	4.9	30.2	6.4	49.7
0.5	7 x 0.30 or 16 x 0.20	40.1	3.0	13.9	3.7	19.3	5.1	33.6	6.6	53.8
0.6	19 x 0.20	33.7	3.0	14.6	3.7	20.0	5.1	34.2	6.6	54.5
0.75	24 x 0.20	26.7	3.2	17.1	3.9	22.9	5.3	37.7	6.8	58.7
0.93	19 x 0.25	21.6	3.5	20.3	4.2	26.5	5.6	42.2	7.1	64.0
1	32 x 0.20	20.0	3.6	21.6	4.3	27.9	5.7	43.9	7.2	66.1
1.34	19 x 0.30	15.0	3.7	24.9	4.4	31.3	5.8	47.7	7.3	70.2
1.5	30 x 0.25	13.7	3.8	26.6	4.5	33.2	5.9	49.9	7.4	72.7
2.5	50 x 0.25	8.21	4.3	38.1	5.0	45.6	6.4	63.8	7.9	88.4

CSVCS-HT

0.5	7 x 0.30 or 16 x 0.20	40.1	3.3	16.1	4.8	30.1	6.3	49.4	8.7	90.9
0.6	19 x 0.20	33.7	3.3	16.8	4.8	30.8	6.3	50.0	8.7	91.6
0.75	24 x 0.20	26.7	3.5	19.5	5.0	34.2	6.5	54.1	8.9	96.8
0.93	19 x 0.25	21.6	3.6	21.6	5.1	36.6	6.6	56.9	9.0	100
1	32 x 0.20	20.0	3.8	23.7	5.2	38.3	6.7	58.9	9.1	103
1.34	19 x 0.30	15.0	3.9	27.1	5.3	41.9	6.8	62.9	9.2	107
1.5	30 x 0.25	13.7	4.0	28.8	5.4	44.0	7.3	71.9	9.3	110

* Pulse voltage.

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® ECS-HT VDE

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



Approvals - standards

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

Applications

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

Options

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

2

1

SILICABLE ECS-HT 1,5MM² - VDE-REG-NR : 9916

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

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

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

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
1.3	3.8	22.0
1.3	3.9	24.6
1.3	4.2	30.7

Option • RECS-HT VDE

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal diameter (mm)	Maximum linear resistance at 20°C (Ω/km)
0.75	1 x 0.98	24.8
1	1 x 1.13	18.2
1.5	1 x 1.38	12.2

INSULATED WIRE

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
1.3	3.6	20.6
1.3	3.8	24.2
1.3	4.0	29.7

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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



Approvals - standards

- Halogen-free: EN 50143 / EN 60754-1 / EN 60754-2.
- USE ☐ ☐ 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 I).
-30°C to +90°C (Types C2 and D2).
- Good resistance to thermal shock and UV.

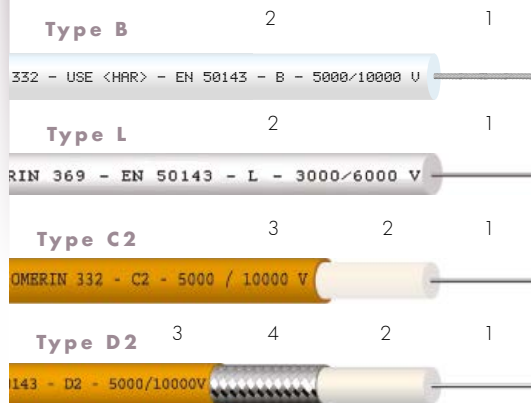
Electrical

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

Standard products

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Type B, L, C2 and D2

Flexible core • class 5 as per IEC 60228				INSULATED WIRE			
Reference	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.	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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol ☒

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

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

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

SILICABLE® MC-ECS -60°C to +180°C

Approvals - standards

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

Options

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Characteristics General

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

Electrical

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

Standard products

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

Applications

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

Flexible core • class 5 as per IEC 60228

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	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

For this product, please contact:

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

OMERIN division silisol ☐

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

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	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).

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

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

Approvals - standards

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

Options

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

Characteristics General

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

Electrical

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

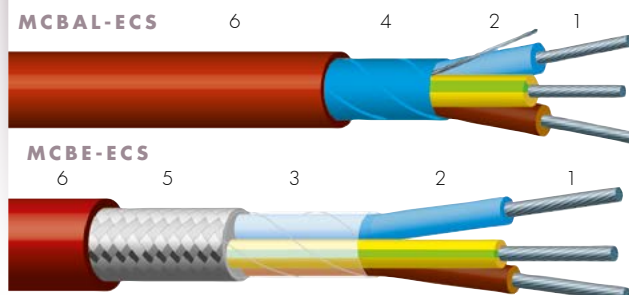
Standard products

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

Applications

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Flexible core • class 5 as per IEC 60228

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

For this product, please contact:

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

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

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	7.3	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 > mm²
(example: 3 X 1.5 mm²).

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

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

SILICABLE® MC-HRD

Insulation and sheathing with
improved mechanical strength

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



Approvals - standards

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

Applications

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

Options

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

Characteristics General

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

Electrical

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

Standard products

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

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	INSULATED CONDUCTORS		SHEATHED CABLE	
			Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 0.5	16 x 0.20	40.1	0.6	2.1	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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	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 > mm²
(example: 3 X 1.5 mm²).

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

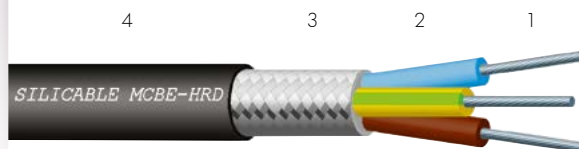
HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® MCBE-HRD

*Insulation and sheathing with
improved mechanical strength*

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



Approvals - standards

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

Applications

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

Options

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

Characteristics

General

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

Electrical

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

Standard products

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

Flexible core • class 5 as per IEC 60228

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	6.5	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

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

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:

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

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

SILICABLE® H05SS-F

USE <HAR> Approval

-60°C to +180°C

<HAR>

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



Approvals - standards

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

Applications

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

Options

- Other outer sheath colours: contact us.

Characteristics

General

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

Electrical

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

Standard products

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

Standard conductor colours (as per HD 308)

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

• Identification

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

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® H05SS-F HRD

USE <HAR> Approval

-60°C to +180°C

<HAR>

Approvals - standards

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

Applications

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

Options

- Other colours: contact us.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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.

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).

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

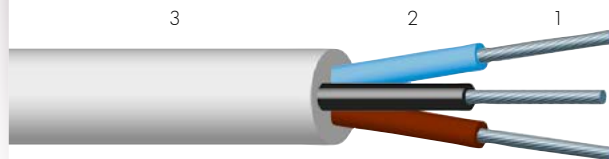
www.omerin.com

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

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

SILICABLE® MC-EFEP -60°C to +200°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



- 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).

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 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:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

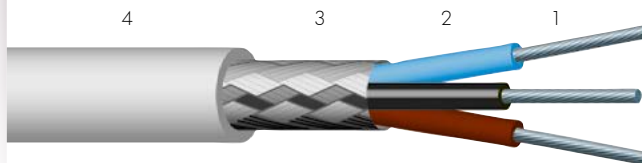
www.omerin.com

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

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

SILICABLE® MCBE-EFEP -60°C to +200°C

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Applications

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

Options

- Bare copper core: ref. MCBE-FEP.
- Nickel-plated copper core: ref. MCBE-CNFEP.
- Silver-plated copper core: ref. MCBE-AFEP.
 - Extra-flexible tin-plated copper core – class 6 as per IEC 60228: ref. MCBE-EFEP-ES.
- Electrical shielding: Aluminium/PET tape + continuity wire: ref. MCBA-EFEP.
- Insulation: Fluorinated polymer PFA (improved thermal resistance of insulation): ref. MCBE-EPFA.
- Insulation: Fluorinated polymer ETFE (+155°C in continuous operation - improved mechanical strength): ref. MCBE-EETFE.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other colours: contact us.
- Other options and/or combinations of the options outlined above: contact us.

Characteristics General

- Continuous operating temperatures: -60°C to +200°C.
- Good resistance to common chemical influences.

Electrical

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

Standard products

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

Standard conductor colours:

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

• Identification

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

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

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

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

omerin
LES CABLES DE L'EXTREME

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

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

SILICABLE® 150°C

Silicone insulation
Silicone sheathing
UL and cUL approval



Characteristics

General

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

Electrical

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

Standard products

- Single conductors: UL and cUL approved silicone insulated conductors ($\geq 150^\circ\text{C}$).
- 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 ($\phi > 0.38 \text{ mm}$)
C Nickel-plated copper
D Silver-plated copper
E Nickel
F Bare copper
F* Bare copper ($\phi > 0.38 \text{ mm}$)
G Nickel-plated copper 27 %

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

For this product, please contact:

OMERIN division principale

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

OMERIN division siliSol

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

omerin
LES CABLES DE L'EXTREME

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Style no. **4389-S150**

Approval

150°C - 600 V

AWM II A/B
(Wall 1.14 mm)

No. of cond.	AWG	Nominal cross-section (mm²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	2.0	6.2
3	26	0.13	2.0	6.6
4	26	0.13	2.0	7.1
5	26	0.13	2.0	7.6
7	26	0.13	2.0	8.2

2	24	0.22	2.2	6.6
3	24	0.22	2.2	7.0
4	24	0.22	2.2	7.5
5	24	0.22	2.2	8.2
7	24	0.22	2.2	8.8

2	22	0.34	2.35	6.9
3	22	0.34	2.35	7.3
4	22	0.34	2.35	8.0
5	22	0.34	2.35	8.6
7	22	0.34	2.35	9.3

2	-	0.5	2.5	7.2
3	-	0.5	2.5	7.6
4	-	0.5	2.5	8.3
5	-	0.5	2.5	9.0
7	-	0.5	2.5	9.7

2	20	0.6	2.5	7.2
3	20	0.6	2.5	7.8
4	20	0.6	2.5	8.3
5	20	0.6	2.5	9.0
7	20	0.6	2.5	9.7

2	-	0.75	2.7	7.6
3	-	0.75	2.7	8.1
4	-	0.75	2.7	8.7
5	-	0.75	2.7	9.5
7	-	0.75	2.7	10.3

2	18	0.93	2.8	7.8
3	18	0.93	2.8	8.3
4	18	0.93	2.8	9.0
5	18	0.93	2.8	9.8
7	18	0.93	2.8	10.6

2	-	1	2.9	8.0
3	-	1	2.9	8.5
4	-	1	2.9	9.2
5	-	1	2.9	10.1
7	-	1	2.9	10.9

2	16	1.34	3.1	8.4
3	16	1.34	3.1	8.9
4	16	1.34	3.1	9.7
5	16	1.34	3.1	10.6
7	16	1.34	3.1	11.5

2	-	1.5	3.2	8.6
3	-	1.5	3.2	9.2
4	-	1.5	3.2	10.0
5	-	1.5	3.2	10.9
7	-	1.5	3.2	11.8

2	14	-	3.4	9.0
3	14	-	3.4	9.6
4	14	-	3.4	10.4
5	14	-	3.4	11.4
7	14	-	3.4	12.4

Conducting metal

BCDEFG

Style no. **4476-S150**

150°C - 300 V

Internal wiring
External wiring

Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)	Nominal diameter of the cable* (mm)
1.2	3.9	4.6
1.2	4.1	4.8
1.2	4.4	5.1
1.2	4.7	5.5
1.2	5.1	5.8

1.4	4.3	5.0
1.4	4.5	5.3
1.4	4.8	5.6
1.4	5.3	6.0
1.4	5.7	6.4

1.55	4.6	5.3
1.55	4.8	5.6
1.55	5.2	6.0
1.55	5.7	6.4
1.55	6.1	6.9

1.7	4.9	5.6
1.7	5.1	5.9
1.7	5.6	6.3
1.7	6.1	6.8
1.7	6.6	7.3

1.75	5.0	5.7
1.75	5.3	6.0
1.75	5.7	6.5
1.75	6.2	7.0
1.75	6.7	7.5

1.9	5.3	6.0
1.9	5.6	6.3
1.9	6.1	6.8
1.9	6.6	7.4
1.9	7.2	7.9

2.0	5.5	6.2
2.0	5.8	6.6
2.0	6.3	7.1
2.0	6.9	7.6
2.0	7.5	8.2

2.1	5.7	6.4
2.1	6.0	6.8
2.1	6.5	7.3
2.1	7.1	7.9
2.1	7.8	8.5

2.3	6.1	6.8
2.3	6.4	7.2
2.3	7.0	7.8
2.3	7.7	8.4
2.3	8.4	9.1

2.4	6.3	7.0
2.4	6.7	7.4
2.4	7.3	8.0
2.4	8.0	8.7
2.4	8.7	9.4

2.65	6.8	7.5
2.65	7.2	8.0
2.65	7.9	8.6
2.65	8.6	9.4
2.65	9.4	10.2

BCDEFG

www.omerin.com

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

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

www.omerin.com

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

SILICABLE® 200°C

**Silicone insulation
Silicone sheathing
UL and cUL approval**



Characteristics General

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

Electrical

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

Standard products

- Single conductors: UL and cUL approved silicone insulated conductors ($\geq 200^\circ\text{C}$).
- Standard outer sheath colours: black or brick red.
- Stranding of conducting cores: contact us.

Approvals - standards

- UL approval as per standard UL 758 - File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 - File no.: E101965.
- "Horizontal flame test" as per UL approval.
- "Cable flame test" as per UL approval (AWM II A/B only).
- "FT2 flame rating" as per cUL approval.
- "FT1 flame rating" as per cUL approval (AMW II A/B only).
- Halogen-free: IEC 60754-1 / EN 60754-1.

Applications

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

Options

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

KEY

Conducting metals
B Tin-plated copper
B* Tin-plated copper ($\phi > 0.38 \text{ mm}$)
C Nickel-plated copper
D Silver-plated copper
E Nickel
F Bare copper
F* Bare copper ($\phi > 0.38 \text{ mm}$)
G Nickel-plated copper 27 %

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

NS Not Specified
VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Style no. 4389-S200

Approval

200°C - 600 V

AWM II A/B
(Wall 1.14 mm)

No. of cond.	Nominal cross-section (mm ²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	2.0
3	26	0.13	2.0
4	26	0.13	2.0
5	26	0.13	2.0
7	26	0.13	2.0

2	24	0.22	2.1
3	24	0.22	2.1
4	24	0.22	2.1
5	24	0.22	2.1
7	24	0.22	2.1

2	22	0.34	2.4
3	22	0.34	2.4
4	22	0.34	2.4
5	22	0.34	2.4
7	22	0.34	2.4

2	-	0.5	2.5
3	-	0.5	2.5
4	-	0.5	2.5
5	-	0.5	2.5
7	-	0.5	2.5

2	20	0.6	2.6
3	20	0.6	2.6
4	20	0.6	2.6
5	20	0.6	2.6
7	20	0.6	2.6

2	-	0.75	2.65
3	-	0.75	2.65
4	-	0.75	2.65
5	-	0.75	2.65
7	-	0.75	2.65

2	18	0.93	2.7
3	18	0.93	2.7
4	18	0.93	2.7
5	18	0.93	2.7
7	18	0.93	2.7

2	-	1	2.8
3	-	1	2.8
4	-	1	2.8
5	-	1	2.8
7	-	1	2.8

2	16	1.34	3.05
3	16	1.34	3.05
4	16	1.34	3.05
5	16	1.34	3.05
7	16	1.34	3.05

2	-	1.5	3.1
3	-	1.5	3.1
4	-	1.5	3.1
5	-	1.5	3.1
7	-	1.5	3.1

2	14	-	3.6
3	14	-	3.6
4	14	-	3.6
5	14	-	3.6
7	14	-	3.6

Conducting metal

B*CDEF*G

4421-S200

200°C - 600 V

AWM II A/B
(Wall 1.52 mm)

No. of cond.	Nominal cross-section (mm ²)	Nominal diameter of the cond.* (mm)	Nominal diameter of the cable* (mm)
2	26	0.13	2.0
3	26	0.13	2.0
4	26	0.13	2.0
5	26	0.13	2.0
7	26	0.13	2.0

2	24	0.22	2.1
3	24	0.22	2.1
4	24	0.22	2.1
5	24	0.22	2.1
7	24	0.22	2.1

2	22	0.34	2.4
3	22	0.34	2.4
4	22	0.34	2.4
5	22	0.34	2.4
7	22	0.34	2.4

2	-	0.5	2.5
3	-	0.5	2.5
4	-	0.5	2.5
5	-	0.5	2.5
7	-	0.5	2.5

2	20	0.6	2.6
3	20	0.6	2.6
4	20	0.6	2.6
5	20	0.6	2.6
7	20	0.6	2.6

2	-	0.75	2.65
3	-	0.75	2.65
4	-	0.75	2.65
5	-	0.75	2.65
7	-	0.75	2.65

2	18	0.93	2.7
3	18	0.93	2.7
4	18	0.93	2.7
5	18	0.93	2.7
7	18	0.93	2.7

2	-	1	2.8
3	-	1	2.8
4	-	1	2.8
5	-	1	2.8
7	-	1	2.8

2	16	1.34	3.05
3	16	1.34	3.05
4	16	1.34	3.05
5	16	1.34	3.05
7	16	1.34	3.05

2	-	1.5	3.1
3	-	1.5	3.1
4	-	1.5	3.1
5	-	1.5	3.1
7	-	1.5	3.1

2	14	-	3.6
3	14	-	3.6
4	14	-	3.6
5	14	-	3.6
7	14	-	3.6

B*CDEF*G

www.omerin.com

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

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

www.omerin.com

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

SILICABLE® 150°C Fluoropolymer insulation Silicone sheathing UL and cUL approval



Characteristics General

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

Electrical

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

Standard products

- Single conductors: UL and cUL approved fluoropolymer insulated conductors ($\geq 150^\circ\text{C}$).
- 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.

KEY

Conducting metals

B Tin-plated copper

B* Tin-plated copper ($\phi > 0.38 \text{ mm}$)

C Nickel-plated copper

D Silver-plated copper

E Nickel

F Bare copper

F* Bare copper ($\phi > 0.38 \text{ mm}$)

G Nickel-plated copper 27 %

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

NS Not Specified

VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Style no.
Insulation
Approval

4476-E150
ETFE

150°C - 300 V

AWM I A
(Wall 0.76 mm)

AWM II A/B
(Wall 1.14 mm)

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

Conducting metal

BCDEG

www.omerin.com

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

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

www.omerin.com

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

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

SILICABLE® 200°C Fluoropolymer insulation Silicone sheathing UL and cUL approval



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 ($\geq 200^\circ\text{C}$).
- 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 ($\phi > 0.38 \text{ mm}$)

C Nickel-plated copper

D Silver-plated copper

E Nickel

F Bare copper

F* Bare copper ($\phi > 0.38 \text{ mm}$)

G Nickel-plated copper 27 %

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

NS Not Specified

VNS Voltage Not Specified

■ : UL approved nominal cross-sections only.

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

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

omerin
LES CABLES DE L'EXTREME

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

Style no. Insulation Approval

4476-F200 ETFE "Thin-wall"

200°C - 300 V

AWM I A (Wall 0.76 mm) AWM II A/B (Wall 1.14 mm)

4476-F200 FEP

200°C - 300 V

AWM I A (Wall 0.76 mm) AWM II A/B (Wall 1.14 mm)

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

Conducting metal

B*CDEF*G

B*CDEF*G

www.omerin.com

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

Style no.
Insulation
Approval
4476-F200
 ETFE "Thin-wall"

 200°C – 600 V
 AWM I A
 (Wall 0.76 mm)

4389-F200
 ETFE "Thin-wall"

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

4476-F200
 FEP "Thin-wall"

 200°C – 600 V
 AWM I A
 (Wall 0.76 mm)

4389-F200
 FEP "Thin-wall"

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

4476-F200
 FEP

 200°C – 600 V
 AWM I A
 (Wall 0.76 mm)

4389-F200
 FEP

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

4476-F200
 FEP

 200 °C – 1000 V
 AWM I A
 (Wall 0.76 mm)

 AWM II A/B
 (Wall 1.14 mm)

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

Conducting metal

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

B*CDEF*G

www.omerin.com

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

SILICABLE® M-CS-TBT

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



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

Approvals - standards

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

Applications

- Cabling for low voltage lighting systems.

Options

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

Characteristics General

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

Electrical

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

Standard products

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

M-CS-TBT

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® SIZ-VDE

VDE approval

-60°C to +180°C



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.

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES



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

SIZ-VDE

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILISOL® SIHF-TBT

-60°C to +180°C

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES



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

Approvals - standards

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

Applications

- Cabling for low voltage lighting systems.

Options

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

Characteristics General

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

Electrical

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

Standard products

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

SIHF-TBT

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® Style 3858 -60°C to +150°C



SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES

2

1



- 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	13.8	0.554
A0752003	50	0.10	1.75	15.5	0.386
A0752004	70	0.10	1.75	18.0	0.272
A0752005	95	0.10	1.75	20.0	0.206
A0752006	120	0.10	1.75	21.5	0.161
A0752007	150	0.10	1.75	23.5	0.129
A0752008	185	0.10	1.80	26.0	0.106
A0752001	240	0.10	1.80	30.0	0.0801
A0752009	300	0.10	1.95	32.5	0.0641

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

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



SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

2 1

SILICABLE 150C 3000V 30122 AWM

- 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)
				min.	max.	
A0753001	35	0.10	1.27	11.5	14.1	0.554
A0753002	50	0.10	1.27	13.2	15.8	0.386
A0753003	70	0.10	1.27	15.5	18.5	0.272
A0753004	95	0.10	1.27	17.3	20.3	0.206
A0753005	120	0.10	1.27	19.0	22.0	0.161
A0753006	150	0.10	1.27	20.7	24.3	0.129
A0753007	185	0.10	1.27	23.2	26.8	0.106
A0753008	240	0.10	1.27	25.9	29.9	0.0801
A0753009	300	0.10	1.27	28.8	32.8	0.0641

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

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



Approvals - standards

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

Applications

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

Options

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

SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES

5 4 3 2 1



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

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 (mm²)	Nominal diameter of strands (mm)	Minimum nominal insulation thickness (mm)	Nominal external diameter (mm)		Max. linear resistance at 20°C (Ω/km)
				min.	max.	
A0754001	35	0.10	1.39	15.6	18.2	0.554
A0754002	50	0.10	1.39	17.3	19.9	0.386
A0754003	70	0.10	1.39	19.6	22.6	0.272
A0754004	95	0.10	1.39	21.6	24.6	0.206
A0754005	120	0.10	1.39	23.3	26.3	0.161
A0754006	150	0.10	1.39	25.1	28.7	0.129
A0754007	185	0.10	1.39	27.5	31.1	0.106
A0754008	240	0.10	1.39	30.2	34.2	0.0801
A0754009	300	0.10	1.39	33.1	37.1	0.0641

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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



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

FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
1201	SILICABLE CSV and ECSV		62
1202	SILICABLE CSVRI and ECSVRI	 	63
1203	SILICABLE H05SJ-K	<HAR>	64
1204	SILICABLE H05SJ-U	<HAR>	65
1205	SILICABLE 150 °C - Silicone insulation with fibreglass braid		66
1206	SILICABLE 200 °C - Silicone insulation with fibreglass braid		67
1207	SILICABLE CSVCS and ECSVCS		68
1208	SILICABLE CSP and ECSP		69
1209	SILICABLE ECSPRI		70
1210	SILICABLE Style 3304 and 3573 - Ignition wires		71
1219	SILICABLE VMC-ECS		72
1220	SILICABLE PMC-ECS		74
1221	SILICABLE H05SST-F	<HAR>	76
1222	SILICABLE PMCBEC-ECS	 	78
1223	SILICABLE ECSBECSP	 	80
1224	SILICABLE Style 3779		81
1225	SILICABLE Style 30133		82

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

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



Approvals - standards

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

Applications

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

Options

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

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



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

Characteristics General

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

Electrical

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

Standard products

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

CSV and ECSV

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (bare copper core)
0.4*	12 x 0.20	52.4
0.5	16 x 0.20	39.0
0.6*	19 x 0.20	32.8
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272
95	485 x 0.50	0.206
120	608 x 0.50	0.161
150	756 x 0.50	0.129
185	944 x 0.50	0.106
240	1221 x 0.50	0.0801
300	1525 x 0.50	0.0641
400	2037 x 0.50	0.0486

INSULATED WIRE OR CABLE

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

Option • RCSV and RECSV

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm²)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.38	12.1
2.5	1 x 1.77	7.41
4**	1 x 2.24	4.61
6**	1 x 2.76	3.08

INSULATED WIRE

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

* Nominal cross-sections not described in IEC 60228.

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

www.omerin.com

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

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

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



Approvals - standards

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

Applications

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

Options

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

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



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

Characteristics General

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

Electrical

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

Standard products

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

CSVRI and ECSVRI

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

* Nominal cross-sections not described in IEC 60228.

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

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

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

SILICABLE® H05SJ-K

USE <HAR> Approval

-60°C to +180°C

<HAR>

SILICONE INSULATED AND/OR SHEATHED
WIRES AND CABLES WITH REINFORCING 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

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)
0.5	16 x 0.20	40.1
0.75	24 x 0.20	26.7
1	32 x 0.20	20.0
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	192 x 0.40	0.795
35	259 x 0.40	0.565
50	377 x 0.40	0.393
70	340 x 0.50	0.277
95	444 x 0.50	0.210

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
	min.	max.	
0.6	2.6	3.3	11.0
0.6	2.8	3.5	14.5
0.6	2.9	3.7	16.7
0.7	3.4	4.2	20.4
0.8	4.0	5.0	35.0
0.8	4.5	5.6	49.4
0.8	5.0	6.2	73.3
1.0	6.2	7.8	123
1.0	7.3	9.1	182
1.2	9.0	11.3	272
1.2	10.3	12.8	355
1.4	11.7	14.6	502
1.4	13.8	17.3	686
1.6	15.6	19.6	911

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

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

SILICABLE® H05SJ-U

USE $\triangleleft$ HAR $\triangleright$ Approval

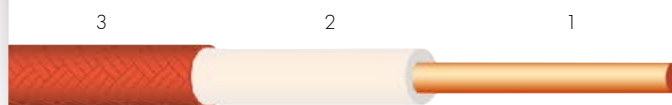
-60°C to +180°C

$\triangleleft$ HAR $\triangleright$

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

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

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



- 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.

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

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km) (tin-plated copper core)
0.5*	1 x 0.80	36.7
0.75*	1 x 0.98	24.8
1	1 x 1.13	18.2
1.5	1 x 1.38	12.2
2.5	1 x 1.77	7.56
4**	1 x 2.24	4.70
6**	1 x 2.76	3.11

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
	min.	max.	
0.6	-	2.5	10.5
0.6	-	2.7	13.1
0.6	2.8	3.5	17.9
0.7	3.2	4.0	24.4
0.8	3.8	4.7	37.0
0.8	4.2	5.3	51.1
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.

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

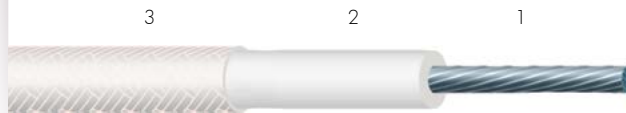
HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION I: CROSS LINKED ELASTOMERS

SILICABLE® 150°C

Silicone insulation
with fibreglass braid
UL approval



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



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

Characteristics General

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

Electrical

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

Standard products

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

Approvals - standards

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

Applications

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

Options

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

Style no. Approval		3068 150°C - 300 V		3132 150°C - 300 V		3069 (26-20 AWG) 3070 (18-12 AWG) 150°C - 600 V		3535 150°C - 600 V	
Nominal cross-section		Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)	Average thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)								
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	

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silişol □

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

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.

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

SILICABLE® 200°C

**Silicone insulation
with fibreglass braid
UL approval**



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



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

Characteristics

General

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

Electrical

- Rated voltage: as per style no.
- Test voltage: $10 \times$ 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		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)
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 ($\phi > 0.38$ mm)
 C Nickel-plated copper
 D Silver-plated copper
 E Nickel
 F Bare copper
 F* Bare copper ($\phi > 0.38$ mm)
 G Nickel-plated copper 27 %

AWM I A Internal wiring, not subject to mechanical abuse

AWM I A	Internal wiring,
AWM I A/B	Internal wiring

AWM II A/B External or Internal wiring

NS Not Specified

VNS Voltage Not Specified

For this product, please contact:

OMERIN division principale ☒

Zone Industrielle - F 63600 Ambert

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

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

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

* 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.

www.omerin.com

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

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

SILICABLE® CSVCS and ECSVCS Reinforced double insulating layer -60°C to +180°C

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



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

Approvals - standards

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

Applications

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

Options

- Nickel-plated copper core: ref. CNCSVCS.
- Silver-plated copper core: ref. ACSVCS.
- Pure nickel core (not described in IEC 60228): ref. NCSVCS.
- Solid bare copper (ref. RCSVCS) or tin-plated (ref. RECSVCS) core - class 1 as per IEC 60228: contact us.
- Extra-flexible bare copper (ref. CSVCS-ES) or tin-plated (ref. ECSVCS-ES) core - class 6 as per IEC 60228: contact us.
- Other nominal cross-sections: contact us.
 - Other nominal stranding: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

Characteristics General

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

Electrical

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

Standard products

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

CSVCS and ECSVCS

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

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



Approvals - standards

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

Applications

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

Options

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

Characteristics General

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

Electrical **CS < 10 mm²** **CS ≥ 10 mm²**

- Rated voltage: 450/750 V 600/1000 V.
- Test voltage: 2500 V 3000 V.

Standard products

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

CSP and ECSP

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)
0.25*	8 x 0.20	78.9
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30
10	80 x 0.40	1.91
16	126 x 0.40	1.21
25	196 x 0.40	0.780
35	276 x 0.40	0.554
50	396 x 0.40	0.386
70	360 x 0.50	0.272
95	485 x 0.50	0.206
120	608 x 0.50	0.161
150	756 x 0.50	0.129
185	944 x 0.50	0.106
240	1221 x 0.50	0.0801
300	1525 x 0.50	0.0641
400	2037 x 0.50	0.0486

INSULATED WIRE OR CABLE

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

* Nominal cross-section not included in IEC 60228.

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® ECSPRI -60°C to +180°C

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



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

Approvals - standards

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

Applications

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

Options

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

Characteristics

General

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

Electrical

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

Standard products

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

ECSPRI

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale ✓

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

OMERIN division silisol □

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

SILICABLE® HT Style 3304 and Style 3573

Ignition wires
UL approval



Approvals - standards

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

Applications

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

Options

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

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



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

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		Avg thick-ness of insulation (mm)	Nominal diameter* (mm)	Avg thick-ness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)				
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 ($\phi > 0.38$ mm)
 C Nickel-plated copper
 D Silver-plated copper
 E Nickel
 F Bare copper
 F* Bare copper ($\phi > 0.38$ mm)
 G Nickel-plated copper 27 %

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

NS Not Specified
 VNS Voltage Not Specified

■: UL approved nominal cross-sections only.

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

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

omerin
 LES CABLES DE L'EXTREME

* 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.

www.omerin.com

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

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

SILICABLE® VMC-ECS -60°C to +180°C

Approvals - standards

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

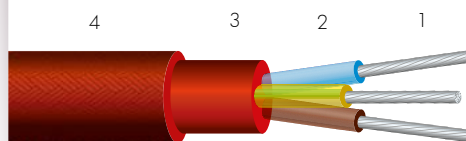
Applications

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

Standard products

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

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



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

Characteristics General

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

Electrical

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

Options

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

Standard conductor colours:

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

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

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

SILICABLE® PMC-ECS

-60°C to +180°C

Approvals - standards

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

Options

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

Characteristics General

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

Electrical

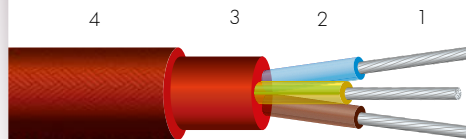
- Rated voltage: up to 600/1000 V.
- Test voltage: up to 3000 V.

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.



- 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.

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1	32 x 0.20	20.0	0.6	2.5	7.3	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).

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

SILICABLE® H05SST-F

USE <HAR> Approval

-60°C to +180°C

<HAR>

Approvals - standards

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

Applications

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

Options

- Other sheath colours: contact us.

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



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

Characteristics General

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

Electrical

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

Standard products

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

Standard conductor colours (as per HD 308)

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

Identification

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

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

www.omerin.com

omerin
LES CABLES DE L'EXTREME

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

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

SILICABLE® PMCBEC-ECS -60°C to +180°C

Lloyd's
Register

Approvals - standards

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

Options

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

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.

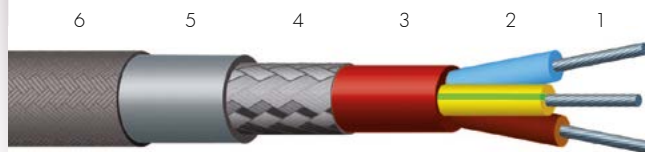
Standard products

- 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.

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



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

For this product, please contact:

OMERIN division principale ✓

Zone Industrielle - F 63600 Ambert

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

OMERIN division silisol □

BP 87 - ZI du Devey - F 42000 Saint-Etienne

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 1.5	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).

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

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

SILICABLE® ECSBECSP

-60°C to +180°C



Approvals - standards

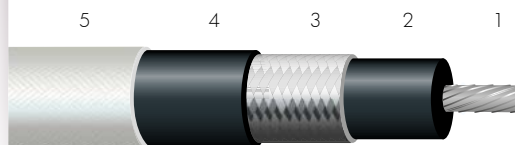
- Bureau VERITAS approval certificates no. 06465/DO BV: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22.
- Lloyd's Register approval certificates no. 06/00106: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360,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

Applications

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

Options

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



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

Characteristics

General

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

Electrical

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

Standard products

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

ECSBECSP

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)
1.5	30 × 0.25	13.7
2.5	50 × 0.25	8.21
4	56 × 0.30	5.09
6	84 × 0.30	3.39
10	80 × 0.40	1.95
16	126 × 0.40	1.24
25	196 × 0.40	0.795
35	276 × 0.40	0.565
50	396 × 0.40	0.393
70	360 × 0.50	0.277
95	485 × 0.50	0.210
120	608 × 0.50	0.164
150	756 × 0.50	0.132
185	944 × 0.50	0.108
240	1221 × 0.50	0.0817
300	1525 × 0.50	0.0654

SHEATHED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
7.3	81
7.8	95
8.4	114
9.1	139
10.5	202
11.6	261
13.6	386
14.8	477
16.9	665
19.7	893
21.8	1129
24.1	1460
26.5	1788
28.9	2230
32.4	2859
35.5	3475

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

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



Approvals - standards

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

Applications

- Internal cabling for electrical appliances

Options

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

Characteristics

General

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

Electrical

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

Standard products

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

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



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

Style no. 3779

Flexible core • class 2 or 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding		Maximum linear resistance at 20°C (Ω/km)	
	Tin-plated copper	Nickel-plated copper	Tin-plated copper	Nickel-plated copper
0.6	-	19 x 0.20	-	36.0
0.75	-	24 x 0.20	-	26.7
1.0	7 x 0.43	32 x 0.20	18.2	20.0
1.5	7 x 0.52	30 x 0.25	12.2	13.7
2.5	19 x 0.40	50 x 0.25	7.56	8.21
4	32 x 0.40	56 x 0.30	4.70	5.09
6	40 x 0.40	84 x 0.30	3.11	3.39
10	77 x 0.40	-	1.95	-
16	119 x 0.40	-	1.24	-
25	192 x 0.40	-	0.795	-
35	259 x 0.40	-	0.565	-
50	370 x 0.40	-	0.393	-
70	333 x 0.50	-	0.277	-
95	444 x 0.50	-	0.210	-
120	568 x 0.50	-	0.164	-
150	721 x 0.50	-	0.132	-
185	888 x 0.50	-	0.108	-
240	1184 x 0.50	-	0.0817	-
300	1480 x 0.50	-	0.0654	-
400	1924 x 0.50	-	0.0495	-

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne
Tel. (33) 04 77 81 36 00 - Fax (33) 04 77 81 37 00
silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

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



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



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

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	15.0	0.554
B1408002	50	0.10	1.75	16.7	0.386
B1408003	70	0.10	1.75	19.2	0.272
B1408004	95	0.10	1.75	21.2	0.206
B1408005	120	0.10	1.75	22.7	0.161
B1408006	150	0.10	1.75	24.7	0.129
B1408007	185	0.10	1.80	27.2	0.106
B1408008	240	0.10	1.80	31.2	0.0801
B1408009	300	0.10	1.95	33.7	0.0641

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

VARPREN INSULATED WIRES AND CABLES

FT No.	PRODUCT REFERENCE	APPROVAL	PAGE
1301	VARPREN ST		84
1302	VARPREN F		85
1303	VARPREN H05Z-K and H07Z-K	◁HARD▷	86
1304	VARPREN H05G-K and H07G-K	◁HARD▷	87
1305	VARPREN 125		88
1306	VARPREN 155		89
1309	VARPREN 105 UL - 105°C lead wires	C  US	90
1307	VARPREN 125 UL - Class B lead wire	C  US	91
1308	VARPREN 155 UL - Class F lead wire	C  US	92
1310	VARPREN FLR		93
1311	VARPREN MVA		94
1312	VARPREN H05GG-F	◁HARD▷	96
1313	VARPREN MVA-C-VA		98

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® ST

-50°C to +155°C

Approvals - standards

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

Options

- Bare copper core: contact us.
- Nickel-plated copper core: contact us.
- Other 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.

2

1

VARPREN ST 1.5 MM² HALOGEN FREE

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

VARPREN® ST

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® F

-50°C to +155°C

Approvals - standards

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

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.

2

1

VARPREN F 1.5 MM² HALOGEN FREE

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

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

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

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

<HAR>

Approvals - standards

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

Options

- Solid tin-plated copper core – class 1 as per IEC 60228 (ref. H05Z-U and H07Z-U): contact us.
- Stranded tin-plated copper core – class 2 as per IEC 60228 (ref. 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

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

H05Z-K

H07Z-K

- 450/750 V.
- 2500 V.

Standard products

- All colours including two-coloured.

H05Z-K and H07Z-K

Flexible core • class 5 as per IEC 60228

Reference	Nominal cross-section	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter		Approximate linear weight (kg/km)
	(mm²)				min.	max.	
H05ZK	0.5	16 x 0.20	40.1	0.6	2.1	2.6	9.0
H05ZK	0.75	24 x 0.20	26.7	0.6	2.2	2.8	11.7
H05ZK	1	32 x 0.20	20.0	0.6	2.4	2.9	13.8
H07ZK	1.5	30 x 0.25	13.7	0.7	2.8	3.5	20.2
H07ZK	2.5	50 x 0.25	8.21	0.8	3.4	4.3	31.2
H07ZK	4	56 x 0.30	5.09	0.8	3.9	4.9	47.2
H07ZK	6	84 x 0.30	3.39	0.8	4.4	5.5	65.9
H07ZK	10	80 x 0.40	1.95	1.0	5.7	7.1	120
H07ZK	16	126 x 0.40	1.24	1.0	6.7	8.4	172
H07ZK	25	196 x 0.40	0.795	1.2	8.4	10.6	265
H07ZK	35	276 x 0.40	0.565	1.2	9.7	12.1	355
H07ZK	50	396 x 0.40	0.393	1.4	11.5	14.4	506
H07ZK	70	360 x 0.50	0.277	1.4	13.2	16.6	679
H07ZK	95	485 x 0.50	0.210	1.6	15.1	18.8	897
H07ZK	120	608 x 0.50	0.164	1.6	16.7	20.9	1 142
H07ZK	150	756 x 0.50	0.132	1.8	18.6	23.3	1 354
H07ZK	185	944 x 0.50	0.108	2.0	20.6	25.8	1 766
H07ZK	240	1 221 x 0.50	0.0817	2.2	23.5	29.4	2 342

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

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

Approvals - standards

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

Options

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

<HAR>

Characteristics General

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

Electrical

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

H05G-K

H07G-K

- 450/750 V.
- 2500 V.

Standard products

- All colours including two-coloured.

H05G-K and H07G-K

Flexible core • class 5 as per IEC 60228

Reference	Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)
H05G-K	0.5	16 x 0.20	40.1
H05G-K	0.75	24 x 0.20	26.7
H05G-K	1	32 x 0.20	20.0
H07G-K	1.5	30 x 0.25	13.7
H07G-K	2.5	50 x 0.25	8.21
H07G-K	4	56 x 0.30	5.09
H07G-K	6	84 x 0.30	3.39
H07G-K	10	80 x 0.40	1.95
H07G-K	16	126 x 0.40	1.24
H07G-K	25	196 x 0.40	0.795
H07G-K	35	276 x 0.40	0.565
H07G-K	50	396 x 0.40	0.393
H07G-K	70	360 x 0.50	0.277
H07G-K	95	485 x 0.50	0.210
H07G-K	120	608 x 0.50	0.164
H07G-K	150	756 x 0.50	0.132
H07G-K	185	944 x 0.50	0.108
H07G-K	240	1 221 x 0.50	0.0817

INSULATED WIRE OR CABLE

Nominal thickness of insulation (mm)	Nominal diameter (mm)		Approximate linear weight (kg/km)
	min.	max.	
0.6	2.1	2.6	9.6
0.6	2.2	2.8	12.0
0.6	2.4	2.9	14.5
0.8	3.0	3.7	22.4
0.9	3.6	4.5	34.6
1.0	4.3	5.4	52.2
1.0	4.8	6.0	71.0
1.2	6.0	7.6	121
1.2	7.1	8.9	175
1.4	8.8	11.0	274
1.4	10.1	12.6	368
1.6	11.9	14.9	522
1.6	13.6	17.0	702
1.8	15.5	19.3	914
1.8	17.1	21.4	1 168
2.0	19.0	23.8	1 411
2.2	21.0	26.3	1 817
2.4	23.9	29.9	2 396

For this product, please contact:

OMERIN division principale ☐

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol ☒

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® 125

-50°C to +125°C

Approvals - standards

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

Options

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

Characteristics General

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

Electrical

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

Standard products

- Standard insulation colour: black.



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

VARPREN® 125

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

* Nominal cross-section not described in IEC 60228.

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® 155

-50°C to +155°C

Approvals - standards

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

Options

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

Characteristics General

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

Electrical

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

Standard products

- Standard insulation colour: black.

2

1

600/1000V EC 11049201

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

VARPREN® 155

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

For this product, please contact:

OMERIN division principale ☐

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol ☒

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

* Nominal cross-section not described in IEC 60228.

www.omerin.com

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

omerin
LES CABLES DE L'EXTREME

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® 105 UL

105°C lead wires

UL and cUL approval



Approvals - standards

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

Applications

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

Options

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

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.



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

Style no.

3781

Approval

105 °C - 1000 V

Nominal cross-section		Nominal stranding	Avg thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)			
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.

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

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

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® 125 UL

Class B lead wires

UL and cUL approval



Approvals - standards

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

Applications

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

Options

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

Characteristics General

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

Electrical

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

Standard products

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

		Style no.	3266		3173		3271	
		Approval	125 °C - 300 V		125 °C - 600 V		125 °C - 600 V	
Nominal cross-section	Nominal stranding		Avg thick-ness of insulation (mm)	Nominal diameter* (mm)	Avg thick-ness of insulation (mm)	Nominal diameter* (mm)	Avg thick-ness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)							
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.

www.omerin.com

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® 155 UL

Class F lead wires

UL and cUL approval



Approvals - standards

- UL approval as per standard UL 758 - File no.: E101965.
- cUL approval (CSA) as per standard C22.2 No. 210 - File no.: E101965.
- "Horizontal flame test" as per UL approval.
- "FT2 flame rating" as per cUL approval.

Applications

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

Options

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

Characteristics General

- Continuous operating temperatures: -10°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		Nominal stranding		Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (mm)	Avg thickness of insulation (mm)	Nominal diameter* (mm)
AWG	(mm²)								
-	0.5	19 x 0.18		0.38	1.7	0.76	2.5	0.76	2.5
20	0.6	19 x 0.20		0.38	1.8	0.76	2.6	0.76	2.6
-	0.75	24 x 0.20		0.38	1.9	0.76	2.7	0.76	2.7
18	0.93	19 x 0.25		0.38	2.0	0.76	2.8	0.76	2.8
-	1	32 x 0.20		0.38	2.1	0.76	2.9	0.76	2.9
16	1.34	19 x 0.30		0.38	2.3	0.76	3.1	0.76	3.1
-	1.5	30 x 0.25		0.38	2.4	0.76	3.15	0.76	3.15
14	-	19 x 0.37		0.38	2.6	0.76	3.4	0.76	3.4
-	2.5	50 x 0.25		0.38	2.8	0.76	3.6	0.76	3.6
12	-	37 x 0.34		0.38	3.2	0.76	4.0	0.76	4.0
-	4	52 x 0.30		0.38	3.3	0.76	4.1	0.76	4.1
10	-	37 x 0.43		0.38	3.9	0.76	4.7	0.76	4.7
-	6	84 x 0.30		-	-	0.76	4.8	0.76	4.8
8	-	70 x 0.40		-	-	1.14	6.3	1.14	6.3
-	10	77 x 0.40		-	-	1.14	7.0	1.14	7.0
6	-	105 x 0.40		-	-	1.52	8.4	1.52	8.4
-	16	119 x 0.40		-	-	1.52	8.8	1.52	8.8
4	-	168 x 0.40		-	-	1.52	9.8	1.52	9.8
-	25	196 x 0.40		-	-	1.52	10.4	1.52	10.4
2	35	259 x 0.40		-	-	2.04	11.7	2.04	11.7
Conducting metal				BCDEFG		BCDEFG		BCDEFG	

For this product, please contact:

OMERIN division principale

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

OMERIN division silisol

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

omerin
LES CABLES DE L'EXTREME

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.

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

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 $\geq 0.5 \text{ mm}^2$: 5000 V.

Standard products

- All colours including two-coloured.

VARPREN® FLR

Flexible core • class 5 as per IEC 60228

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

INSULATED WIRE OR CABLE

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

* Nominal cross-sections not described in IEC 60228.

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

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).

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® H05GG-F

USE <HAR> Approval

-15°C to +110°C

<HAR>

Approvals - standards

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

Applications

- Class F cabling for electric motors.

Options

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



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

Characteristics

General

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

Electrical

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

Standard products

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

Standard conductor colours (as per HD 308):

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

• Identification

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

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

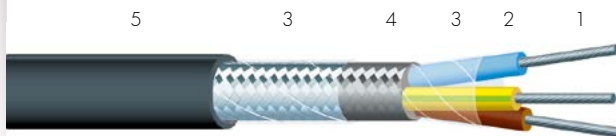
www.omerin.com

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

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

VARPREN INSULATED WIRES AND CABLES

VARPREN® MVA-C-VA -30°C to +150°C



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

Approvals - standards

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

Applications

- Class F cabling for electric motors.

Options

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

Characteristics General

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

Electrical

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

Standard products

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

Standard conductor colours:

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

• Identification

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

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

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devey - F 42000 Saint-Etienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Flexible core • class 5 as per IEC 60228

INSULATED CONDUCTORS

SHEATHED CABLE

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20°C (Ω/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2 x 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

For this product, please contact:

OMERIN division principale 

Zone Industrielle - F 63600 Ambert

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

omerin@omerin.com

OMERIN division silisol 

BP 87 - ZI du Devey - F 42000 Saint-Étienne

Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00

silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

www.omerin.com

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

Notes

[illegible]



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

Notes

[illegible]



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

Notes

[illegible]





omerin
division principale

Headquarters and division principale
Zone industrielle - 63600 Ambert - France

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

Fax +33 (0)4 73 82 50 10

e-mail: omerin@omerin.com

omerin
division silisol

division silisol
B.P. 87 - 11, allée du Couchant Z.I. du Devey
42010 Saint-Etienne Cedex 2 - France

Tel. +33 (0)4 77 81 36 00

Fax +33 (0)4 77 81 37 00

e-mail: silisol@omerin.com

www.omerin.com