

CABLES SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY





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

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



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

Our expertise is recognized in over 120 countries.



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

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

Men and Women at your service

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

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

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

List of all the available catalogues:

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

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

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

FIRE RESISTANT SAFETY CABLES 4

CABLE SOLUTIONS FOR ROLLING STOCK 5

CABLES FOR POWER STATIONS 6
AND HIGH-RISK SITES

MARINE CABLES

PYROMETRY CABLES (8)

BRAIDED INSULATING SLEEVINGS 2

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

CABLE SOLUTIONS (I)
FOR AUTOMOTIVE AND E-MOBILITY

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 eleven others from our collection are available on line with real time updates and much more information at

www.omerin.com

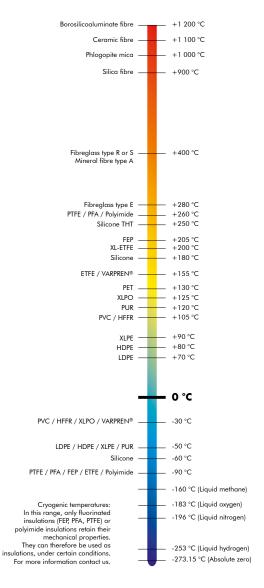
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BIO-HABITAT®	Wires and cables for a home without electromagnetic interference
CERAFIL®	Miniature ceramic insulated wires for very high temperatures
COAXRAIL®	Coaxial cables for railway industry
COAXTHERM ®	High temperature coaxial cables
COUPLIX®	Pyrometry 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 speaker cables
OILPLAST®	Cables for industrial environments and intrinsically safe circuits
OMBILIFLEX ®	High performance special multi-function cables
PLASTHERM ®	Special thermoplastic insulated wires and cables
POWER CONNECT®	High performance power cords
PROFIPLAST®	Thermoplastic insulated wires and cables
PYRISOL®	Fire resistant power cables for safety circuits
PYRITEL®	Fire resistant communication cables for safety circuits
SILIBOX®	Wire and cables cardboard box packaging system
SILICABLE®	Special high temperature wires and cables
SILICOUL®	Low and medium voltage class H (180°C) power cables
SILIFLAM®	Very high safety cables for extreme temperatures
SILIFLON®	Fluoropolymer insulated high temperature wires and cables
SILIGAINE®	Braided insulating sleevings
SILIRAD®	Electron beam cross-linked cables
SILITUBE®	Braided or extruded tubes
SOLARPLAST®	Power cables for photovoltaic solar panels
SONDIX®	Platinum resistance temperature sensors connection cables
SPIRFLEX®	High performance spiral cables
TEXALARM®	Cables for safety systems and fire alarms
TS CABLES®	Coaxial and data cables
TS COM 900 [®]	Twisted pair cables for high-speed packet transmission
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
VIDEOCOAY®	Analog and digital video caldos

VIDEOCOAX® Analog and digital video cables



Thermal classification of insulations





















Coding ChartAutomotive Wires & Cables

1 TYPE CODE		FL FHL FZL	Low voltage aut High voltage au Ignition automo	tomotive cables			
2 CORE CODE		AL M W	Aluminium core Material other th	ner core (plain, tinned-copper or silver-plated / nickel-plated copper) nan E-Cu, Aluminium and resistance conductors uctors (for resistance ignition cables)			
3 INSULATIO CODE	ulation thickness according to ISO 6722 and ISO 19642 ulation thickness according to ISO 6722 and ISO 19642 of insulation thickness according to ISO 6722 and ISO 19642 unsulation thickness (undefined according to ISO 6722 and ISO 19642)						
4 MATERIAL CODE	CROSS LINKED & THERMOPLASTIC & THERMOPLASTIC ELASTOMER	Y YK YW 2Y 4Y 5Y 6Y 7Y 9Y 10Y 11Y 12Y 13Y 51Y 52Y 91Y X 2X 7X 10X 41X	PVC PVC PVC PVC PE PA PTFE FEP ETFE PP PVDF PUR / TPE-U PBT TPE-S PFA MFA TPE-O PVC-X PE-X ETFE-X PVDF-X PO-X	PVC +105°C PVC +105°C with cold resistance according to ISO 6722 and ISO 19642 PVC +125°C with heat resistance according to ISO 6722 and ISO 19642 Polyethylene Polyamide Polytetra fluor ethylene Fluorinated ethylene propylene Ethylene tetrafluoroethylene Polypropylene Polyvinylidenfluorid Polyurethane & Thermoplastic elastomer with polyurethane basis Polybutylenterephthalat Thermoplastic elastomer with polyester ester basis Thermoplastic elastomer with polystyrene basis Perfluoroalkoxy copolymer Copolymer of tetrafluoroethylene and perfluoromethylvinyl ether Thermoplastic elastomer with polyolefin basis PVC crosslinked PE crosslinked PE crosslinked Polyvinylidenfluorid crosslinked Special polyolefin crosslinked			
	ELASTOMER C	91X 2G 3G 4G 5G	SILICONE EPDM EVA CR	TPE-O crosslinked Silicone elastomer Ethylene propylene elastomer Ethylene Vinyl acetate with copolymer basis Chloroprene rubber			
5 SHIELDIN CODE	SHIELDING		Taped screen Copper braid shield (plain, tinned, silver-plated, nickel-plated / copper) Copper spiral shield (plain, tinned, silver-plated, nickel-plated - copper) Non metallic tape Textile braid				
COMPOSITION B Asymmetric core composition Multi-strand composit				composition according to ISO 6722 and ISO 19642 e composition according to ISO 6722 and ISO 19642 inposition according to ISO 6722 and ISO 19642 fore composition undefined according to ISO 6722 and ISO 19642 (for 1228)			

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PLASTHERM® FLRY

-40°C to +105°C

Class B according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES

- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 PVC 105°C insulation

Approvals - standards

• ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602

Applications

• Low voltage wires for general automotive wiring.

Specific characteristics

Version with a reduced insulation according to ISO 6722-1 and ISO 19642-3

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

• Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Type A	Туре В		Thin wall		Bare copper	Tinned copper
Nominal cross section (mm²)	Number of strands & strand diameter nom. / max. (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C (Ω/ km)
0.13	7 x 0.16		0.25	0.20	1.05	136	140
0.22	7 x 0.21		0.25	0.20	1.20	84.8	86.5
0.35	7 x 0.27	12 x 0.21	0.25	0.20	1.40*	54.4	55.5
0.50	19 x 0.19	16 x 0.21	0.28	0.22	1.60	37.1	38.2
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3		44 x 0.31	0.40	0.32	3.40	6.15	6.36
4		56 x 0.31	0.40	0.32	3.70	4.71	4.85
5	-	65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23
8	-	50 x 0.46	0.40	0.32	5.00	2.38	2.52
10	-	80 x 0.41	0.60	0.48	6.00	1.82	1.85
12		96 x 0.41	0.60	0.48	6.50	1.52	1.60
16	-	126 x 0.41	0.65	0.52	7.20	1.16	1.18
20	-	152 x 0.41	0.65	0.52	7.80	0.955	0.999
25	-	196 x 0.41	0.65	0.52	8.70	0.743	0.757
30	-	224 x 0.41	0.80	0.64	9.60	0.647	0.684
35	-	276 x 0.41	0.80	0.64	10.40	0.527	0.538
40	-	308 x 0.41	0.90	0.71	11.10	0.473	0.500
50	-	396 x 0.41	0.90	0.71	12.20	0.368	0.375
60		296 x 0.51	1.00	0.80	13.30	0.315	0.333
70	-	360 x 0.51	1.00	0.80	14.40	0.259	0.264
95		475 x 0.51	1.10	0.90	16.70	0.196	0.200

^{*} The outside wire diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.

omerin@omerin.com

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www.omerin.com





PLASTHERM® FLRYW

-40°C to +125°C

Class C according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES

- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 PVC 125°C insulation

Approvals - standards

• ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602

Applications

• Low voltage wires for general automotive wiring.

Specific characteristics

Version with a reduced insulation according to ISO 6722-1 and ISO 19642-3

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

• Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Type A	Туре В		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C (Ω/ km)
0.13	7 x 0.16		0.25	0.20	1.05	136	140
0.22	7 x 0.21		0.25	0.20	1.20	84.8	86.5
0.35	7 x 0.27	12 x 0.21	0.25	0.20	1.40*	54.4	55.5
0.50	19 x 0.19	16 x 0.21	0.28	0.22	1.60	37.1	38.2
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3		44 x 0.31	0.40	0.32	3.40	6.15	6.36
4		56 x 0.31	0.40	0.32	3.70	4.71	4.85
5		65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23
8		50 x 0.46	0.40	0.32	5.00	2.38	2.52
10	-	80 x 0.41	0.60	0.48	6.00	1.82	1.85
12		96 x 0.41	0.60	0.48	6.50	1.52	1.60
16	-	126 x 0.41	0.65	0.52	7.20	1.16	1.18
20	-	152 x 0.41	0.65	0.52	7.80	0.955	0.999
25	-	196 x 0.41	0.65	0.52	8.70	0.743	0.757
30	-	224 x 0.41	0.80	0.64	9.60	0.647	0.684
35	-	276 x 0.41	0.80	0.64	10.40	0.527	0.538
40		308 x 0.41	0.90	0.71	11.10	0.473	0.500
50	-	396 x 0.41	0.90	0.71	12.20	0.368	0.375
60	-	296 x 0.51	1.00	0.80	13.30	0.315	0.333
70	-	360 x 0.51	1.00	0.80	14.40	0.259	0.264
95	-	475 x 0.51	1.10	0.90	16.70	0.196	0.200

^{*} The outside wire diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.

For this product, please contact:

OMERIN division principale

✓
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PLASTHERM® FLR11Y

-40°C to +150°C

Class D according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES



- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 TPE-U insulation

Approvals - standards

- ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602
 - IEC 60754-1 halogen free

Applications

· Low voltage wires for general automotive wiring.

Specific characteristics

- Version with a reduced insulationaccording to ISO 6722-1 and ISO 19642-3
- Flame retardant

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

• Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Type A	Туре В		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max. (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C (Ω/ km)
0.35	7 x 0.27	12 x 0.21	0.25	0.20	1.40*	54.4	55.5
0.50	19 x 0.19	16 x 0.21	0.28	0.22	1.60	37.1	38.2
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3		44 x 0.31	0.40	0.32	3.40	6.15	6.36
4		56 x 0.31	0.40	0.32	3.70	4.71	4.85
5	-	65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23
8		50 x 0.46	0.40	0.32	5.00	2.38	2.52
10	-	80 x 0.41	0.60	0.48	6.00	1.82	1.85
12	-	96 x 0.41	0.60	0.48	6.50	1.52	1.60
16	-	126 x 0.41	0.65	0.52	7.20	1.16	1.18
20	-	152 x 0.41	0.65	0.52	7.80	0.955	0.999
25	-	196 x 0.41	0.65	0.52	8.70	0.743	0.757
30	-	224 x 0.41	0.80	0.64	9.60	0.647	0.684
35	-	276 x 0.41	0.80	0.64	10.40	0.527	0.538
40	-	308 x 0.41	0.90	0.71	11.10	0.473	0.500
50	-	396 x 0.41	0.90	0.71	12.20	0.368	0.375
60	-	296 x 0.51	1.00	0.80	13.30	0.315	0.333
70	-	360 x 0.51	1.00	0.80	14.40	0.259	0.264
95	•	475 x 0.51	1.10	0.90	16.70	0.196	0.200

^{*} The outside wire diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.

For this product, please contact:

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PLASTHERM® FLR2X

-40°C to +125°C

Class C according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES



- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 PE-X insulation (radiation crosslinked Polyethylene)

Approvals - standards

- ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602
 - IEC 60754-1 halogen free

Applications

• Low voltage wires for general automotive wiring.

Specific characteristics

- Version with a reduced insulation according to ISO 6722-1 and ISO 19642-3
- Flame retardant

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

•Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Type A	Туре В		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C (Ω/ km)
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90*	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3	-	44 x 0.31	0.40	0.32	3.40	6.15	6.36
4	-	56 x 0.31	0.40	0.32	3.70	4.71	4.85
5	-	65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23

For this product, please contact:

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SILIFLON® FLR7Y

-40°C to +175°C

Class E according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES

- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 ETFE insulation

Approvals - standards

• ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602

Applications

• Low voltage wires for automotive applications in engine compartment, automotive wiring in high temperature and aggressive environments requiring compact size and excellent mechanical strength.

Specific characteristics

- Resistant to pressure at high temperatures
- Excellent resistance to abrasion
- Good chemical resistance to automotive oils and fuels

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

• Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Type A	Туре В		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max. (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C(Ω/ km)
0.13	7 x 0.16		0.25	0.20	1.05	136	140
0.22	7 x 0.21		0.25	0.20	1.20	84.8	86.5
0.35	7 x 0.27	12 x 0.21	0.25	0.20	1.40*	54.4	55.5
0.50	19 x 0.19	16 x 0.21	0.28	0.22	1.60	37.1	38.2
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3		44 x 0.31	0.40	0.32	3.40	6.15	6.36
4		56 x 0.31	0.40	0.32	3.70	4.71	4.85
5		65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23

^{*} The outside wire diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.

For this product, please contact:

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SILIFLON® FLR6Y

-40°C to +210°C

Class F according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES



- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 FEP insulation

Approvals - standards

- ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602
 - IEC 60754-1 halogen free

Applications

• Low voltage wires for automotive applications in engine compartment, automotive wiring in high temperature and aggressive environments requiring compact size and excellent mechanical strength.

Specific characteristics

- Resistant to pressure at high temperatures
- Excellent resistance to abrasion
- Good chemical resistance to automotive oils and fuels
- Flame retardant

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Туре А	Type B		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max. (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C(Ω/ km)
0.13	7 x 0.16		0.25	0.20	1.05	136	140
0.22	7 x 0.21		0.25	0.20	1.20	84.8	86.5
0.35	7 x 0.27	12 x 0.21	0.25	0.20	1.40*	54.4	55.5
0.50	19 x 0.19	16 x 0.21	0.28	0.22	1.60	37.1	38.2
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3	-	44 x 0.31	0.40	0.32	3.40	6.15	6.36
4		56 x 0.31	0.40	0.32	3.70	4.71	4.85
5	-	65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23

^{*} The outside wire diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.

For this product, please contact:

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SILIFLON® FLR51Y

-40°C to +260°C

Class H according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES

- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 PFA insulation

Approvals - standards

• ISO 6722-1, ISO 19642-1, ISO 19642-3, EN 13602

Applications

• Low voltage wires for automotive applications in engine compartment, automotive wiring in high temperature and aggressive environments requiring compact size and excellent mechanical strength.

Specific characteristics

- Resistant to pressure at high temperatures
- Excellent resistance to abrasion
- Good chemical resistance to automotive oils and fuels

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

Option

• Flexible version with Type C - core according to ISO 6722-1 and ISO 19642-3

CONSTRUCTION SELON ISO 6722-1 ET ISO 19642-3

	Type A	Туре В		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max. (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C(Ω/ km)
0.13	7 x 0.16		0.25	0.20	1.05	136	140
0.22	7 x 0.21		0.25	0.20	1.20	84.8	86.5
0.35	7 x 0.27	12 x 0.21	0.25	0.20	1.40*	54.4	55.5
0.50	19 x 0.19	16 x 0.21	0.28	0.22	1.60	37.1	38.2
0.75	19 x 0.24	24 x 0.21	0.30	0.24	1.90	24.7	25.4
1	19 x 0.27	32 x 0.21	0.30	0.24	2.10	18.5	19.1
1.25	19 x 0.30	16 x 0.33	0.30	0.24	2.30	14.9	15.9
1.5	19 x 0.33	30 x 0.26	0.30	0.24	2.40	12.7	13.0
2	19 x 0.38	28 x 0.31	0.35	0.28	2.80	9.42	9.69
2.5	37 x 0.28	50 x 0.26	0.35	0.28	3.00	7.60	7.82
3	-	44 x 0.31	0.40	0.32	3.40	6.15	6.36
4	-	56 x 0.31	0.40	0.32	3.70	4.71	4.85
5	*	65 x 0.33	0.40	0.32	4.20	3.94	4.02
6	-	84 x 0.31	0.40	0.32	4.30	3.14	3.23

^{*} The outside wire diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.

For this product, please contact:

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SILICABLE® FL2G

-40°C to +200°C

Class F according to ISO 6722-1 and ISO 19642-3 LOW VOLTAGE SINGLE CORE CABLES



- 1 Bare or tinned copper core according to ISO 6722-1, ISO 19642-3 and EN 13602
- 2 Silicone insulation

Approvals - standards

• ISO 6722-1, ISO 19642-1,ISO 19642-3, EN 13602

• IEC 60754-1 halogen free

Applications

• Low voltage wires for automotive applications in engine compartment, used in areas requiring high flexibility at low temperatures.

Specific characteristics

Flame retardant

Colour code

• Black, Blue, Brown, Green, Orange, Red, Purple, White, Yellow (others on request)

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-3

	Type B	Туре С		Thin wall		Bare copper	Tinned copper
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / max. (nb. x mm)	Number of strands & strand diameter nom. / max. (nb. x mm)	Insulation thickness nom. (mm)	Insulation thickness min. (mm)	Outside wire diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)	Maximum linear resistance at 20°C(Ω/ km)
0.50	16 x 0.21	26 x 0.16	0.60	0.48	2.30	37.1	38.2
0.75	24 x 0.21	38 x 0.16	0.60	0.48	2.50	24.7	25.4
1	32 x 0.21	54 x 0.16	0.60	0.48	2.70	18.5	19.1
1.5	30 x 0.26	76 x 0.16	0.60	0.48	3.00	2.7	13.0
2	28 x 0.31	105 x 0.16	0.60	0.48	3.30	9.42	9.69
2.5	50 x 0.26	140 x 0.16	0.70	0.56	3.60	7.6	7.82
3	44 x 0.31	160 x 0.16	0.70	0.56	4.10	6.15	6.36
4	56 x 0.31	224 x 0.16	0.80	0.64	4.40	4.71	4.85
5	65 x 0.33	250 x 0.16	0.80	0.64	4.90	3.94	4.02
6	84 x 0.31	320 x 0.16	0.80	0.64	5.00	3.14	3.23
8	50 x 0.46	240 x 0.21	0.80	0.64	5.90	2.38	2.52
10	80 x 0.41	320 x 0.21	1.00	0.80	6.50	1.82	1.85
12	96 x 0.41	380 x 0.21	1.00	0.80	7.40	1.52	1.60
16	126 x 0.41	512 x 0.21	1.00	0.80	8.30	1.16	1.18
20	152 x 0.41	610 x 0.21	1.10	0.88	9.10	0.955	0.999
25	196 x 0.41	790 x 0.21	1.30	1.04	10.40	0.743	0.757
30	224 x 0.41	900 x 0.21	1.30	1.04	10.90	0.647	0.684
35	276 x 0.41	1 070 x 0.21	1.30	1.04	11.60	0.527	0.538
40	308 x 0.41	1 200 x 0.21	1.40	1.12	12.40	0.473	0.500
50	396 x 0.41	1 600 x 0.21	1.50	1.20	13.50	0.368	0.375
60	296 x 0.51	1 200 x 0.26	1.50	1.20	14.60	0.315	0.333
70	360 x 0.51	1 427 x 0.26	1.50	1.20	15.50	0.259	0.264
95	475 x 0.51	1 936 x 0.26	1.60	1.28	18.00	0.196	0.200
120	608 x 0.51	2 450 x 0.26	1.60	1.28	19.70	0.153	0.156

For this product, please contact:

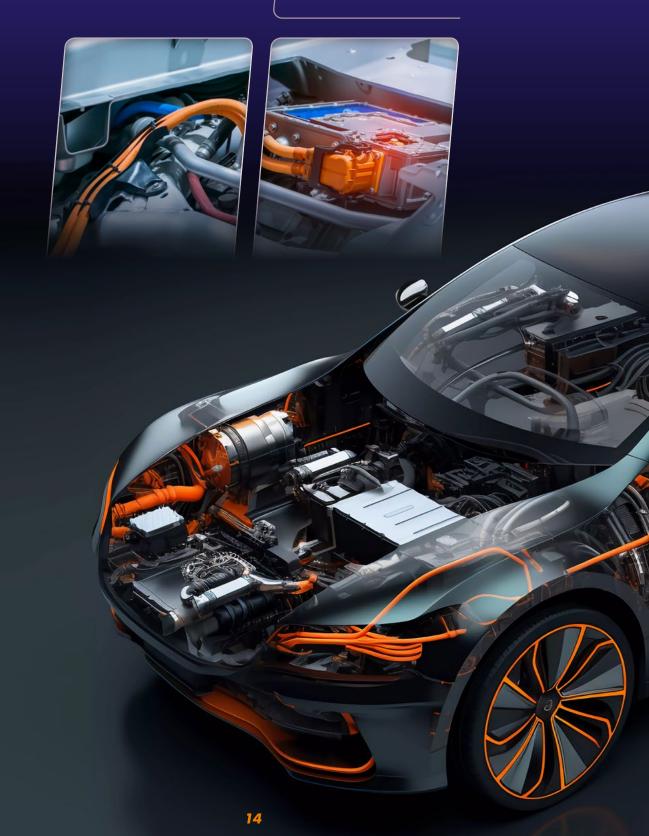
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HIGH VOLTAGE CABLES

E-MOBILITY APPLICATIONS





CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

SILICABLE® FHL2G-C

Single core

-40°C à +180°C

Class E according to ISO 6722-1 and ISO 19642-5

> +180°C (3000 h) +205°C (240 h)

HIGH VOLTAGE CABLES

ATTENTION & HIGH VOLTAGE



- 1 Flexible bare copper core according to ISO 6722-1, ISO 19642-5 and EN 13602
- 2 Silicone insulation

Approvals - standards*

 ISO 19642-5, ISO 6722-1, EN 13602 • IEC 60754-1 halogen free

Applications

• Single core silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

High Voltage requirements according to ISO 19642

• Voltage rating: 1000 VAC / 1500 VDC

• Test voltage: 10 kV 5 minutes

• Sparktest: 8 kV Excellent flexibility Flame retardant • Bending radius: 3 x D

Colour code

 Orange (others on request)

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-5

Item code	Nominal cross section (mm²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)	Cable diam max. (mm)		Maximum linear resistance at 20°C (Ω/ km)
A2504005	0.5	16 x 0.21	1.1	0.48	2.0	2.3	37.1
A2504001	0.75	24 x 0.21	1.3	0.48	2.2	2.5	24.7
A2504002	1	32 x 0.21	1.5	0.48	2.4	2.7	18.5
A2504003	1.5	30 x 0.26	1.8	0.48	2.7	3.0	12.7
A2504004	2.5	50 x 0.26	2.2	0.56	3.3	3.6	7.60
A2503005	4	224 x 0.16	2.8	0.64	4.0	4.4	4.71
A2503006	6	320 x 0.16	3.4	0.64	4.6	5.0	3.14
A2503007	10	320 x 0.21	4.5	0.80	5.9	6.5	1.82
A2503008	16	512 × 0.21	6.3	0.80	7.7	8.3	1.16
A2503009	25	790 x 0.21	7.8	1.04	9.4	10.4	0.743
A2503010	35	1070 x 0.21	9.0	1.04	9.6	11.6	0.527
A2503002	50	1600 x 0.21	10.5	1.20	11.5	13.5	0.368
A2503004	70	2175 x 0.21	12.5	1.20	13.5	15.5	0.259
A2503011	95	3000 x 0.21	14.8	1.28	16.0	18.0	0.196
A2503012	120	3700 x 0.21	16.5	1.28	17.7	19.7	0.153

^{*} Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

For this product, please contact:

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LES CABLES DE L'EXTREME

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HIGH VOLTAGE CABLES

SILICABLE® FHLR2G-C

Single core

-40°C to +180°C

Class E according to ISO 6722-1 and ISO 19642-5

> +180°C (3000 h) +205°C (240 h)

ATTENTION & HIGH VOLTAGE



1 • Flexible bare copper core according to ISO 6722-1, ISO 19642-5 et EN 13602

2

2 • Silicone insulation

Approvals - standards*

- ISO 19642-5, ISO 6722-1, EN 13602 • IEC 60754-1 halogen free
 - **Applications**
 - Single core silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to ISO 19642
- Cross-sections < 10 mm²:
- Voltage rating: 600 VAC / 900 VDC
 - Test voltage: 5 kV 5 minutes
 - Sparktest: 6 kV
- Cross-sections ≥ 10 mm² :
 - Voltage rating: 1000 VAC / 1500 VDC
 - Test voltage: 10 kV 5 minutes
 - Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

Orange

(others on request)

CONSTRUCTION ACCORDING TO ISO 6722-1 AND ISO 19642-5

Item code	Nominal cross section (mm²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)		outside neter min. (mm)	Maximum linear resistance at 20°C (Ω/ km)
A2511001	4	224 x 0.16	2.8	0.32	3.4	3.7	4.71
A2511002	6	320 x 0.16	3.4	0.32	4.0	4.3	3.14
A2511003	10	320 x 0.21	4.5	0.48	5.3	6.0	1.82
A2511004	16	512 x 0.21	6.3	0.52	6.4	7.2	1.16
A2511005	25	790 x 0.21	7.8	0.52	7.9	8.7	0.743
A2511006	35	1070 x 0.21	9.0	0.64	9.4	10.4	0.527
A2511007	50	1600 x 0.21	10.5	0.71	11.0	12.2	0.368
A2511008	<i>7</i> 0	2175 x 0,21	12.5	0.80	13.0	14.4	0.259
A2511009	95	3000 x 0,21	14.8	0.90	15.3	16.7	0.196

* Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

For this product, please contact:

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LES CABLES DE L'EXTREME

www.omerin.com

SILICABLE® FHLR2G LV216

Singlecore

-40°C to +180°C

Class E according to ISO 6722-1 LV 216-2 table A2

> +180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES

2

ATTENTION & HIGH VOLTAGE



- 1 Flexible bare copper core according to ISO 6722-1 and EN 13602
- 2 Silicone insulation

Approvals - standards*

- LV 216-2 table A2, ISO 6722-1 EN 13602
 - IEC 60754-1 halogen free

Applications

• Single core silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to LV 216-2
- Voltage rating: 600 VAC / 1000 VDC
 Test voltage: 5 kV 5 minutes
- Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

 Orange (others on request)

CONSTRUCTION ACCORDING TO LV 216-2 TABLE A2

ltem code	Nominal cross section (mm²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)		outside neter min. (mm)	Maximum linear resistance at 20°C (Ω/ km)
A2512001	4	120 x 0.21	2.8	0.32	3.4	3.7	4.71
A2512002	6	183 x 0.21	3.4	0.32	4	4.3	3.14
A2512003	10	320 x 0.21	4.5	0.48	5.4	6.0	1.82
A2512004	16	512 x 0.21	5.8	0.52	6.6	7.2	1.16
A2512005	25	790 x 0.21	7.2	0.64	8.2	8.8	0.743
A2512006	35	1070 x 0.21	8.5	0.64	9.8	10.5	0.527
A2512007	50	1600 x 0.21	10.5	0.71	11.5	12.2	0.368
A2512008	70	2175 x 0.21	12.5	1.2	14	15.5	0.259
A2512009	95	3000 x 0.21	14.8	1.2	16.2	18.0	0.196
A2512010	120	3700 x 0.21	16.5	1.28	17.9	19.7	0.153

^{*} Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

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LES CABLES DE L'EXTREME

www.omerin.com

SILICABLE® FHLR2GCB2G-C

Shielded single core

-40°C to +180°C

Class E according to ISO 6722-1 and ISO 19642-5

> +180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES

2 4 ATTENTION & HIGH VOLTAGE

- 1 \bullet Flexible bare copper core (structure C) according to ISO 6722-1, ISO 19642-5 and EN 13602
- 2 Silicone insulation
- 3 Tinned copper braid
- 4 Aluminium / PET tape
- 5 Silicone sheath

Approvals - standards*

- ISO 19642-9, ISO 19642-5, ISO 6722-1, EN 13602
 - IEC 60754-1 halogen free

Applications

• Single core silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to ISO 19642
- Cross-sections < 10 mm² :
 - Voltage rating: 600 VAC / 900 VDC
 - Test voltage: 5 kV 5 minutes
 - Sparktest: 6 kV
- Cross-sections ≥ 10 mm² :
 - Voltage rating: 1000 VAC / 1500 VDC
 - Test voltage: 10 kV 5 minutes
 - Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

 Orange (others on request)

CONSTRUCTION ACCORDING TO ISO 19642-9

ltem code	Nominal cross section (mm²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)	Single dian min. (mm)	e core neter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)		outside neter max. (mm)	Linear core resistance at 20°C (Ω/ km)
A2507003	4	224 x 0.16	2.8	0.32	3.4	3.7	0.16	0.32	4.5	5.1	4.71
A2507004	6	320 x 0.16	3.4	0.32	4.0	4.3	0.16	0.48	5.5	6.1	3.14
A2507005	10	320 x 0.21	4.5	0.48	5.3	6.0	0.19	0.52	7.5	8.1	1.82
A2507006	16	512 x 0.21	6.3	0.52	6.4	7.2	0.19	0.64	9.0	9.6	1.16
A2507007	25	790 x 0.21	7.8	0.52	7.9	8.7	0.21	0.72	10.7	11.3	0.743
A2507008	35	1070 x 0.21	9.0	0.64	9.4	10.4	0.21	0.80	12.6	13.2	0.527
A2507009	50	1600 x 0.21	10.5	0.71	11.0	12.2	0.21	0.88	14.6	15.2	0.368
A2507010	70	2175 x 0.21	12.5	0.80	13.0	14.4	0.21	0.88	16.6	17.4	0.259
A2507011	95	3000 x 0.21	14.8	0.90	15.3	16.7	0.26	0.88	19.1	19.9	0.196

^{*} Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

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CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

SILICABLE® FHLR2GCB2G LV216

Shielded single core

-40°C to +180°C

Class E according to ISO 6722-1

LV 216-2

+180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES

2 4 ATTENTION & HIGH VOLTAGE

- 1 \bullet Flexible bare copper core according to ISO 6722-1 and EN 13602
- 2 Silicone insulation
- 3 Tinned copper braid
- 4 Aluminium / PET tape
- 5 Silicone sheath

Approvals - standards*

- LV 216-2 table A.2, ISO 6722-1, EN 13602
 - IEC 60754-1 halogen free

Applications

• Single core silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to LV 216-2
- Voltage rating: 600 VAC / 1000 VDC
 Test voltage: 5 kV 5 minutes
- Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

 Orange (others on request)

CONSTRUCTION ACCORDING TO LV 216-2 TABLE A.2

Item code	Nominal cross section (mm²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)	Single core min. (mm)	max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable dian min.	outside neter max. (mm)	Linear core resistance at 20°C (Ω/ km)
A2510001	4	120 x 0.21	2.8	0.32	3.4	3.7	0.16	0.38	5.3	5.8	4.7
A2510002	6	183 x 0.21	3.4	0.32	4.0	4.3	0.16	0.46	6.0	6.5	3.1
A2510003	10	320 x 0.21	4.5	0.48	5.4	6.0	0.16	0.70	8.2	8.8	1.82
A2510004	16	512 x 0.21	5.8	0.52	6.6	7.2	0.16	0.70	9.6	10.2	1.16
A2510005	25	790 x 0.21	7.2	0.64	8.2	8.8	0.21	0.75	11.6	12.2	0.743
A2510006	35	1070 x 0.21	8.5	0.64	9.8	10.5	0.21	0.80	13.8	14.4	0.527
A2510007	50	1600 x 0.21	10.5	0.71	11.5	12.2	0.21	0.80	15.2	15.8	0.368
A2510008	70	2175 x 0.21	12.5	1.20	14.0	15.5	0.21	1.16	19.2	20.0	0.259
A2510009	95	3000 x 0.21	14.8	1.20	16.2	18.0	0.21	1.16	21.5	22.5	0.196
A2510010	120	3700 x 0.21	16.5	1.28	17.9	19.7	0.21	1.16	22.5	23.5	0.153

^{*} Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

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SILICABLE® FHLR2G2G-C

Multicore

-40°C to +180°C

Class E according to ISO 6722-1 and ISO 19642-1

> +180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES

ATTENTION な HIGH VOLTAGE

3

1 • Flexible bare copper core according to ISO 6722-1, ISO 19642-5 and EN 13602

2

- 2 Silicone insulation
- 3 Silicone sheath

Approvals - standards*

• ISO 19642-9, ISO 19642-5, ISO 6722-1, EN 13602

• IEC 60754-1 halogen free

Applications

• Multicore silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to ISO 19642-9
- Cross-sections < 10 mm² :
 - Voltage rating: 600 VAC / 900 VDC
 - Test voltage: 5 kV 5 minutes
- Sparktest: 6 kV
- Sections ≥ 10 mm² :
 - Voltage rating: 1000 VAC / 1500 VDCTest voltage: 10 kV 5 minutes
- Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

- Sheath: orange
- Insulation:

2 cores: red, black . ≥ 3 cores : HD308

(others on request)

CONSTRUCTION ACCORDING TO ISO 19642-9

Item code	Number of conductors	Nominal cross section (mm²)	Conductor diameter max. (mm)		e core meter max. (mm)	Sheath thickness min. (mm)		outside neter max. (mm)
G2506004	2	1.5	1.8	2.2	2.4	0.46	5.4	5.9
G2506005	3	1.5	1.8	2.2	2.4	0.47	5.8	6.4
G2506006	4	1.5	1.8	2.2	2.4	0.50	6.5	7.0
G2506007	2	2.5	2.2	2.7	3.0	0.51	6.7	7.3
G2506008	3	2,5	2.2	2.7	3.0	0.53	7.2	7.8
G2506009	4	2.5	2.2	2.7	3.0	0.56	8.0	8.6
G2506010	2	4	2.8	3.4	3.7	0.56	8.1	8.8
G2506011	3	4	2.8	3.4	3.7	0.58	8.7	9.4
G2506012	4	4	2.8	3.4	3.7	0.61	9.7	10.4
G2506001	2	6	3.4	4.0	4.3	0.60	9.4	10.1
G2506013	3	6	3.4	4.0	4.3	0.61	10.1	10.8
G2506014	4	6	3.4	4.0	4.3	0.64	11.2	12.0
G2506015	2	10	4.5	5.7	6.0	0.68	12.8	13.7
G2506016	3	10	4.5	5.7	6.0	0.69	13.8	14.7
G2506017	2	16	6.3	6.9	7.2	0.72	15.3	16.2
G2506018	3	16	6.3	6.9	7.2	0.74	16.4	17.4

^{*} Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

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SILICABLE® FHLR2GCB2G-C

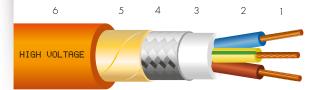
Shielded multicore

-40°C to +180°C

Class E according to ISO 6722-1 and ISO 19642-1

> +180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES



- 1 Flexible bare copper core according to ISO 6722-1, ISO 19642-5 and EN 13602
- 2 Silicone insulation
- 3 Silicone internal sheath
- 4 Tinned copper braid
- 5 Aluminium / PET tape
- 6 External silicone sheath

Approvals - standards*

• ISO 19642-9, ISO 19642-5, ISO 6722-1, EN 13602

• IEC 60754-1 halogen free

Applications

• Multicore silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to ISO 19642-9
- Cross-sections < 10 mm²:
 - Voltage rating: 600 VAC / 900 VDC
 - Test voltage: 5 kV 5 minutes
 - Sparktest: 6 kV
- Cross-sections ≥ 10 mm² :
 - Voltage rating: 1000 VAC / 1500 VDCTest voltage: 10 kV 5 minutes
- Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

- Sheath: orange
- Insulation:
 - 2 cores: red, black . ≥ 3 cores: HD308

(others on request)

CONSTRUCTION ACCORDING TO ISO 19642-9

ltem code	Number of conductors	Nominal cross section (mm²)	Conductor diameter max. (mm)	Single dian min. (mm)	e core neter max. (mm)	Under screen diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable of diam min. (mm)	
G2502008	2	1.5	1.8	2.2	2.4	5.2	0.19	0.52	6.8	7.4
G2502009	3	1.5	1.8	2.2	2.4	5.6	0.19	0.53	7.3	7.9
G2502010	4	1.5	1.8	2.2	2.4	6.3	0.19	0.56	8.0	8.6
G2502011	2	2.5	2.2	2.7	3.0	6.5	0.19	0.56	8.2	8.9
G2502022	3	2.5	2.2	2.7	3.0	7.0	0.21	0.58	8.8	9.5
G2502012	4	2.5	2.2	2.7	3.0	7.9	0.21	0.60	9.7	10.4
G2502013	2	4	2.8	3.4	3.7	8.0	0.21	0.61	9.9	10.6
G2502014	3	4	2.8	3.4	3.7	8.6	0.21	0.62	10.5	11.2
G2502015	4	4	2.8	3.4	3.7	9.6	0.21	0.65	11.5	12.3
G2502007	2	6	3.4	4.0	4.3	9.3	0.21	0.64	11.2	11.9
G2502016	3	6	3.4	4.0	4.3	10.0	0.21	0.66	11.9	12.7
G2502017	4	6	3.4	4.0	4.3	11.2	0.21	0.68	13.1	13.9
G2502018	2	10	4.5	5.7	6.0	12.9	0.21	0.71	14.8	1 <i>5.7</i>
G2502019	3	10	4.5	5.7	6.0	13.8	0.26	0.73	15.9	16.9
G2502020	2	16	6.3	6.9	7.2	15.4	0.26	0.75	17.4	18.5
G2502021	3	16	6.3	6.9	7.2	16.5	0.26	0.77	18.6	19.7

* Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

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CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

SILICABLE® FHLR2GCB2G LV216

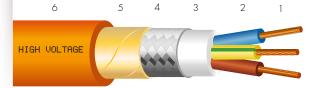
Shielded multicore

-40°C to +180°C

Class E according to ISO 6722-1 LV 216-2 table A.5

> +180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES



- 1 Flexible bare copper core according to ISO 6722-1, LV 216-2 et EN 13602
- 2 Silicone insulation
- 3 Silicone internal sheath
- 4 Tinned copper braid
- 5 Aluminium / PET tape
- 6 External silicone sheath

Approvals - standards*

- LV 216-2 table A.5, ISO 6722-1, EN 13602
 - IEC 60754-1 halogen free

Applications

• Multicore silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to LV 216-2
- Voltage rating: 600 VAC / 1000 VDC
 Test voltage: 5 kV 5 minutes
- Sparktest: 8 kV
- Excellent flexibility
- Flame retardant
- Bending radius: 3 x D

Colour code

- Sheath: orange
- Insulation:
 - 2 cores: red, black
 - . ≥ 3 cores: LV216-2

(others on request)

CONSTRUCTION ACCORDING TO LV 216-2 TABLE A.5

ltem code	Number of conductors	Nominal cross section (mm²)	Conductor diameter max. (mm)		e core neter max. (mm)	Under screen diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)		outside neter max. (mm)
G2505001	2	1.5	1.7	2.2	2.4	5.8	0.16	0.76	7.9	8.5
G2505002	3	1.5	1.7	2.2	2.4	6.2	0.16	0.76	8.5	9.1
G2505003	4	1.5	1.7	2.2	2.4	6.8	0.16	0.76	9.1	9.7
G2505004	5	1.5	1.7	2.2	2.4	7.4	0.16	0.76	9.7	10.3
G2505005	2	2.5	2.2	2.7	3.0	6.9	0.16	0.76	9.3	9.9
G2505006	3	2.5	2.2	2.7	3.0	7.4	0.16	0.76	9.8	10.4
G2505007	4	2.5	2.2	2.7	3.0	8.1	0.16	0.76	10.5	11.1
G2505008	5	2.5	2.2	2.7	3.0	8.9	0.16	0.76	11.5	12.1
G2505009	2	4	2.8	3.4	3.7	8.3	0.16	0.76	10.7	11.3
G2505010	3	4	2.8	3.4	3.7	8.9	0.16	0.76	11.5	12.1
G2505011	4	4	2.8	3.4	3.7	9.8	0.21	0.82	12.7	13.3
G2505012	5	4	2.8	3.4	3.7	11	0.21	0.9	13.9	14.5
G2505013	2	6	3.4	4.0	4.3	9.7	0.16	0.82	12.2	12.8
G2505014	3	6	3.4	4.0	4.3	10.5	0.21	0.9	13.5	14.1
G2505015	4	6	3.4	4.0	4.3	11.4	0.21	0.9	14.5	15.1
G2505016	5	6	3.4	4.0	4.3	12.6	0.21	0.9	15.7	16.3

Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request



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CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

SILICABLE® FHLR6YBCF2G

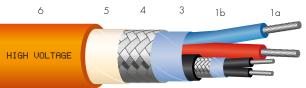
Shielded multicore

-40°C to +180°C

Class E according to ISO 6722-1 and ISO 19642-1

> +180°C (3000 h) + 205°C (240 h)

HIGH VOLTAGE CABLES



2d 2c 2b

2 x 4 mm² conductors

- 1a Tinned copper cores 4 mm² according to ISO 6722-1, ISO 19642-5 and EN 13602
- 1b FEP insulation

2 x 0.5 mm² shielded twisted pair

- 2a \bullet Tinned copper cores $0.\dot{5}$ mm^2 according to ISO 6722-1, ISO 19642-5 and EN 13602
- 2b FEP insulation
- 2c \bullet Double shielding: aluminium / PET tape and tinned copper braid
- 2d FEP sheath
- 3 Aluminium / PET tape
- 4 Tinned copper braid
- 5 PET tape
- 6 External silicone sheath

Approvals - standards*

• ISO 19642-9, ISO 19642-5, ISO 6722-1, EN 13602

Applications

• Multicore silicone power cable for use in hybrid and electrical vehicles.

Specific characteristics

- High Voltage requirements according to ISO 19642Voltage rating: 600 VAC / 900 VDC
- Test voltage: 5 kV 5 minutes
- Sparktest: 6 kV
- Excellent flexibility
- Flame retardant

Colour code

 Orange (others on request)

CONSTRUCTION ACCORDING TO ISO 19642-9

Item code	Composition	Outside w	ire diameter	Cable outside diameter (mm)	at 2	ear resistance 0°C km)
	(mm²)	4 mm ²	0.5 mm ²	, ,	4 mm ²	0.5 mm ²
G2504001	$2 \times 4 + 2 \times 0.5$	3.55	1.45	11.2	4.85	38.2

^{*} Standards: our products comply with all or part of the requirements of standards quoted: contact us Other cross-sections available on request

For this product, please contact:

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LES CABLES DE L'EXTREME

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BATTERY CHARGERS



FLEXBAT® ST -15°C to +70°C

EXTRA FLEXIBLE BATTERY CABLES



- 1 Extra flexible bare copper core class 6 according to IEC 60228
- 2 Extra flexible PVC insulation

Approvals - standards

- IEC 60228
- Flame retardant: IEC 60332-1-2

Applications

 Extra flexible cables for car battery and battery chargers.

Characteristics

- Voltage rating: 450 / 750 V
- Excellent flexibility

Colour code

 Red and black (others on request)

Option

• Extra flexible tinned copper core

	Class 6	Specific wall	Bare copper	
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Outside cable diameter nom. (mm)	Maximum linear resistance at 20°C (Ω / km)	Approx. linear weight (kg / km)
4	224 x 0.15	4.3	4.95	47
6	192 x 0.20	4.8	3.30	65
10	318 x 0.20	6.2	1.91	114
16	516 x 0.20	7.4	1.21	170
25	798 x 0.20	9.6	0.780	296
35	1 120 x 0.20	10.6	0.554	340
50	1 628 x 0.20	13.0	0.386	520
70	2 2.57 x 0 20	14.8	0.272	77.5

For this product, please contact:

OMERIN division polycable 🗹

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CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

FLEXBAT® HT -25°C to +105°C

EXTRA FLEXIBLE BATTERY CABLES



- $1\,$ \bullet Extra flexible bare copper core class 6 according to IEC 60228 $2\,$ \bullet Extra flexible 105°C PVC insulation

Approvals - standards

- IEC 60228
- Flame retardant: IEC 60332-1-2

Applications

• Extra flexible cables for car battery and battery chargers in hot environment.

Characteristics

- Voltage rating: 450 / 750 V
- Excellent flexibility

Colour code

 Red and black (others on request)

Option

• Extra flexible tinned copper core

	Class 6	Specific wall	Bare copper	
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Outside cable diameter nom. (mm)	Maximum linear resistance at 20°C (Ω / km)	Approx. linear weight (kg / km)
16	504 x 0.20	7.4	1.21	170
25	792 x 0.20	9.5	0.780	296
35	1 121 x 0.20	10.6	0.554	340
50	1 628 x 0.20	12.9	0.386	520
70	2 294 x 0.20	14.8	0.272	775

For this product, please contact:

OMERIN division polycable 🗹

9 rond-point Auguste Colonna F 42160 Andrézieux-Bouthéon Phone: +33 (0)4 77 36 07 00 polycable@omerin.com



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EXTRA FLEXIBLE BATTERY CABLES

FLEXBAT® THT -50°C to +125°C



- 1 Extra flexible bare copper core class 6 according to IEC 60228
- 2 125°C thermoplastic elastomer insulation

Approvals - standards

• IEC 60228 • Flame retardant: IEC 60332-1-2

Applications

 Extra flexible cables for car battery and battery chargers in hot environment.

Characteristics

- Voltage rating: 450 / 750 V
- Excellent flexibility

Colour code

 Red and black (others on request)

Option

Extra flexible tinned copper core

	Class 6	Specific wall	Bare copper	
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Outside cable diameter nom. (mm)	Maximum linear resistance at 20°C (Ω / km)	Approx. linear weight (kg / km)
16	504 x 0.20	7.4	1.21	170
25	792 x 0.20	9.5	0.780	296
35	1 121 x 0.20	10.6	0.554	340
50	1 628 x 0.20	12.9	0.386	520
70	2 294 x 0.20	14.8	0.272	<i>7</i> 75

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FLEXBAT® DI LR HT

Double insulating layer Thin wall thickness -40°C to +105°C

Class B according to ISO 6722

EXTRA FLEXIBLE BATTERY CABLES



- 1 Flexible or extra flexible bare copper core according to ISO 6722-1 and EN 13602
- Extra flexible 105°C PVC insulation
 Extra flexible 105°C PVC outer sheath

Approvals - standards

- ISO 6722-1, EN 13602
 - Flame retardant: IEC 60332-1-2
- Max. permissible current according to IEC 60287

Applications

 Extra flexible cables for car battery and battery chargers.

Characteristics

- Voltage rating: 600 / 600 V
- Excellent flexibility
- Minimum static internal bending radius 5 x D
- Cold-resistant according to ISO 6722
- Good chemical resistance to engine oils and fuels

Colour code

 Red, Black, Blue, Brown, Yellow with green marking (others on request)

Option

Flexible or extra flexible tinned copper core

	Type B	Type C	Specif	ic wall	Bare copper	
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Outside wire diameter nom. (mm)	Outside cable diameter nom. (mm)	Maximum linear resistance at 20°C (Ω / km)	Approx. linear weight (kg / km)
10		357 x 0.20	5.5	6.4	1.82	160
16	-	540 x 0.20	6.8	7.9	1.16	220
25	-	828 x 0.20	8.7	9.9	0.743	290
35	-	1 178 x 0.20	9.9	11.2	0.527	410
50		1 679 x 0.20	11.6	13.0	0.368	570
70	558 x 0.40	-	13.5	15.0	0.259	815
95	740 x 0.40		15.5	17.5	0.196	1 208
120	-	2 590 x 0.25	17.2	19.2	0.193	1 550

For this product, please contact:

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TWINBAT® RN

2-conductor cable **Under crystal sheath** -15°C to +70°C

EXTRA FLEXIBLE BATTERY CABLES



- 1 Extra flexible bare copper core class 6 according to IEC 60228 2 PVC insulation type TI2 EN 50363-3
- 3 PVC outer sheath type TM2 EN 50363-4-1

Approvals - standards

- IEC 60228
- Flame retardant: IEC 60332-1-2

Applications

• Extra flexible cables for battery chargers and fixed or portable jump starters. Red and black conductors under a crystal sheath to provide easier use.

Characteristics

- Voltage rating: 450 / 750 V
- Excellent flexibility

Colour code

- Insulation: Red and Black
- Outer sheath: Crystal (others on request)

Option

• Extra flexible tinned copper core

Nominal Cross section (mm²)	Class 6 Number of strands & strand diameter nom. / nom. (nb. x mm)	Specific wall		Bare copper	
		Outside wire diameter nom. (mm)	Outside cable diameter nom. (mm)	Maximum linear resistance at 20°C (Ω / km)	Approx. linear weight (kg / km)
2 x 2.5	140 x 0.15	3.6	5.3 x 12.6	7.98	115
2 x 4	224 x 0.15	4.2	6.0 x 13.0	4.95	185
2 x 6	200 x 0.20	4.8	6.5 x 14.0	3.30	250
2 x 10	322 x 0.20	6.2	8.0 x 17.0	1.91	400
2 x 16	504 x 0.20	7.3	9.0 x 19.0	1.21	500
2 x 25	792 x 0.20	9.4	11.5 x 25.0	0.780	<i>7</i> 50
2 x 35	1 121 x 0.20	10.5	13.0 x 28.0	0.554	810
2 x 50	1 628 x 0.20	12.8	15.0 x 32.0	0.386	1 165
2 x 70	2 294 x 0.20	14.7	17.0 x 36.0	0.272	1 550

For this product, please contact:

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SPECIAL AND CUSTOM MADE CABLES

Multicore cables

HIGH PERFORMANCE

Our cables are tested extensively at all production stages to ensure top quality and to meet your requirements. Our laboratory has the resources to test and validate the physical, mechanical, chemical, electrical and fire performance of the cables we produce.

PLASTHERM® FLR2X11Y-A

4 x 0.35 mm² CuA1

-40°C to +125°C, Class B according to ISO 6722

Low voltage cable, unscreened XLPE insulation and PUR sheath High mechanical strength & Abrasion resistance **ABS System application**

SILIFLON® FLR7Y2G-C

2 x 0.5 mm² CuSn

-40°C to +150°C, Class D according to ISO 6722

Low voltage cable ETFE insulation and Silicone sheath High temperature resistance & High flexibility **Engine application**

Cables for specific applications

SILISOL® 1G et 2G

0.75 mm² CuA1

-60°C to +350°C, Class H according to ISO 6722

Application: sensor's cable for brake pad wear

SILICABLE® ECS-HT, CS-HT

1.5 mm² CuSn ou CuA1

-60°C to +180°C, Class E according to ISO 6722

Application: ignition cables

For this product, please contact:

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omerin@omerin.com

LES CABLES DE L'EXTREME

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The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In 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 of the conditions of a complete study in our laboratories.

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CUSTOMISED SOLUTION

Our Design Office is made up of experienced engineers who are specialists in metallurgy, plastics manufacture, electromagnetic compatibility, micromechanics, data transmission, etc. It will provide you with a fast, precise response by developing an specific automotive solution in line with the miscellaneous and complex constraints of your applications (temperature / mechanical / chemical environments).

SILICABLE® FHLR2GCB2G-B

3 x 2.5 mm² CuA1 -60°C to °180°C, Class E according to ISO 6722

High voltage cable 600 VAC / 900 VDC, screened Silicone insulation and sheath High flexibility

E-mobility application

Our special multicore cables are designed with Automotive wires compliant ISO 6722

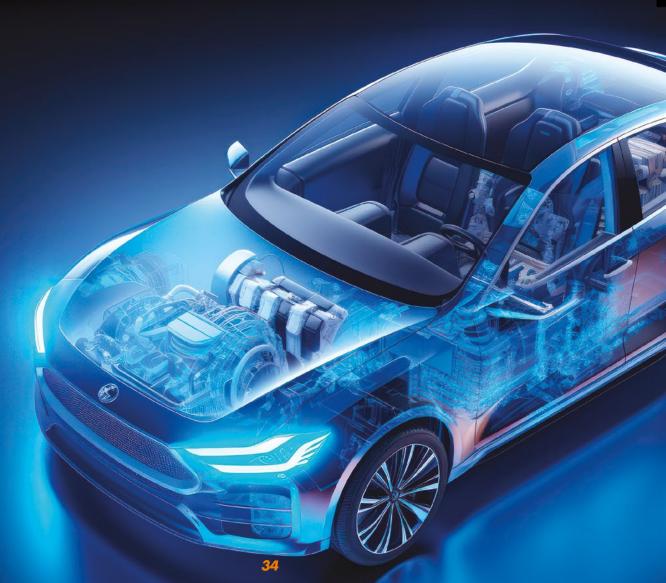
Contact us to define with our sales engineers the product best suited to your application.

HIGH TEMPERATURE BRAIDED SLEEVINGS

> MECHANICAL & HIGH TEMPERATURE PROTECTIONS







HIGH TEMPERATURE BRAIDED SLEEVINGS

Insulating and protective sleevings

OUR PRODUCTS RANGE

APPLICATIONS

Class F alternator

protection

winding outputs insulation, gearbox hoses

MAIN CHARACTERISTICS & OPTION

Please see details for each reference in catalogue n°9 «Braided insulating sleevings».

Temperature

- -30°C / +155°C
- -60°C / +250°C
- -60°C / +280°C

• Fire performance

Self-extinguishing VW-1 version according to UL 1441

Electrical

Dielectric strength: 1 kV to 10 kV

Chemical

Good resistance to common chemical environments Good resistance to humidity, ozone and UV

Mechanical

Good flexibility Good mechanical strength Resistance to brasion Expandable version

SILIGAINE® 13F

Electric insulating sleevings Fibreglass braided sleevings with Polyurethane coating Class F

SILIGAINE® 16F

Electric insulating sleevings Fibreglass braided sleevings with Acrylic coating Class I

SILIGAINE® 15C

Electric insulating sleevings Fibreglass braided sleevings with Silicone rubber coating

Class H and C

SILITUBE® X

Fireproof sleevings Mineral fibre braided sleevings with Silicone rubber coating

Thermal and mecanical insulation of cable harnesses inside confined space, connector protection, brake fluid tube insulation, hoses insulation

Improved thermal insulation, fireproof protection

OUR PACKAGING



 Cuts to length Delivered in bulk in a cardbox

Spool kit

Some sleevings can be supplied in kit spool form. The flanges are made of cardboard and metal.



Roll

Delivered with or without cardboard support. The product is maintained by adhesive tapes.

For this product, please contact:

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LES CABLES DE L'EXTREME

For further information about our High temperature sleevings

Please download catalogue N°9 **BRAIDED INSULATING SLEEVINGS**

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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 the conditions of a complete study in our laboratories.

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Notes		



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