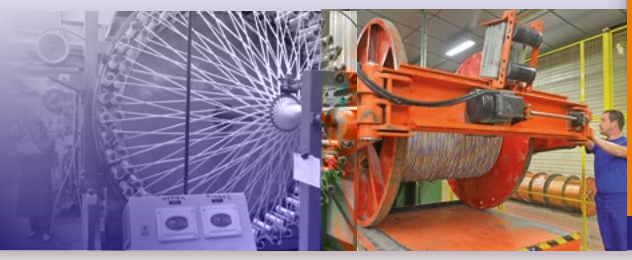
CABLES SOLUTIONS
FOR AUTOMOTIVE AND E-MOBILITY

omerin
LES CABLES DE L'EXTREME

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

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



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

Our expertise is recognized in over 120 countries.

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

Men and Women at your service

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

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

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

List of all the available catalogues:

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.

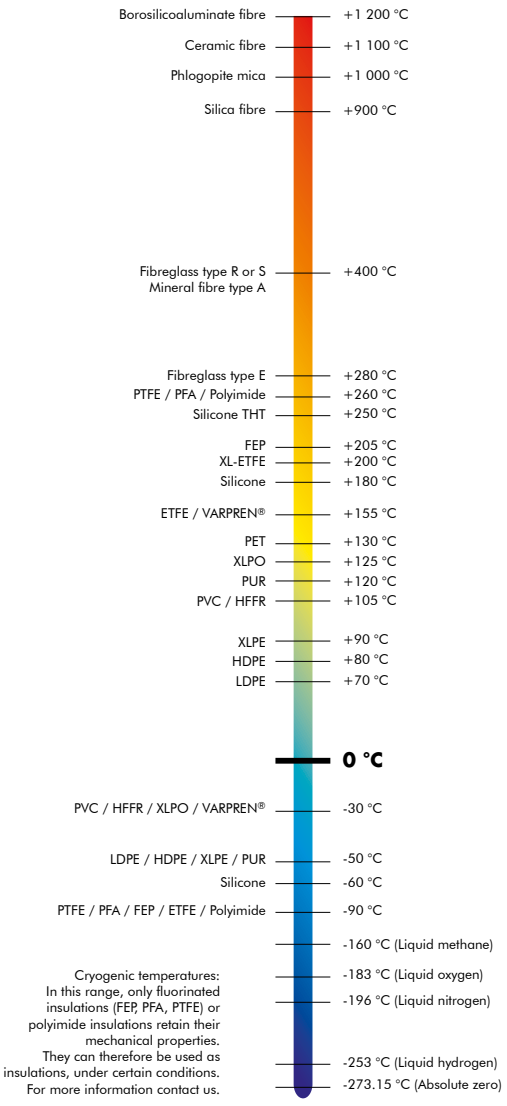
This catalogue, as well as eleven others from our collection are available on line with real time updates and much more information at

www.omerin.com

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 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
VIDEOCOAX®	Analog and digital video cables

Thermal classification of insulations



Coding Chart
Automotive Wires & Cables

1 TYPE CODE	**FL**		Low voltage automotive cables
	FHL		High voltage automotive cables
	FZL		Ignition automotive cables
2 CORE CODE	**-**		Electrolytic copper core (plain, tinned-copper or silver-plated / nickel-plated copper)
	AL		Aluminium core
	M		Material other than E-Cu, Aluminium and resistance conductors
	W		Resistance conductors (for resistance ignition cables)
3 INSULATION CODE	**-**		Thick wall of insulation thickness according to ISO 6722 and ISO 19642
	R		Thin wall of insulation thickness according to ISO 6722 and ISO 19642
	U		Ultra-thin wall of insulation thickness according to ISO 6722 and ISO 19642
	S		Special wall of insulation thickness (undefined according to ISO 6722 and ISO 19642)
4 MATERIAL CODE	THERMOPLASTIC & THERMOPLASTIC ELASTOMER	**Y**	**PVC** PVC +105°C
		YK	**PVC** PVC +105°C with cold resistance according to ISO 6722 and ISO 19642
		YW	**PVC** PVC +125°C with heat resistance according to ISO 6722 and ISO 19642
		2Y	**PE** Polyethylene
		4Y	**PA** Polyamide
		5Y	**PTFE** Polytetra fluor ethylene
		6Y	**FEP** Fluorinated ethylene propylene
		7Y	**ETFE** Ethylene tetrafluoroethylene
		9Y	**PP** Polypropylene
		10Y	**PVDF** Polyvinylidenfluorid
		11Y	**PUR / TPE-U** Polyurethane & Thermoplastic elastomer with polyurethane basis
		12Y	**PBT** Polybutylenterephthalat
		13Y	**TPE-E** Thermoplastic elastomer with polyester ester basis
		31Y	**TPE-S** Thermoplastic elastomer with polystyrene basis
		51Y	**PFA** Perfluoroalkoxy copolymer
		52Y	**MFA** Copolymer of tetrafluoroethylene and perfluoromethylvinyl ether
		91Y	**TPE-O** Thermoplastic elastomer with polyolefin basis
	CROSS LINKED	**X**	**PVC-X** PVC crosslinked
		2X	**PE-X** PE crosslinked
		7X	**ETFE-X** ETFE crosslinked
		10X	**PVDF-X** Polyvinylidenfluorid crosslinked
		41X	**PO-X** Special polyolefin crosslinked
		91X	**TPO-X** TPE-O crosslinked
	ELASTOMER	**2G**	**SILICONE** Silicone elastomer
		3G	**EPDM** Ethylene propylene elastomer
		4G	**EVA** Ethylene Vinyl acetate with copolymer basis
		5G	**CR** Chloroprene rubber
5 SHIELDING CODE	**B**		Taped screen
	C		Copper braid shield (plain, tinned, silver-plated, nickel-plated / copper)
	D		Copper spiral shield (plain, tinned, silver-plated, nickel-plated - copper)
	F		Non metallic tape
	G		Textile braid
6 CODES COMPOSITION	**A**		Symmetric core composition according to ISO 6722 and ISO 19642
	B		Asymmetric core composition according to ISO 6722 and ISO 19642
	C		Multi-strand composition according to ISO 6722 and ISO 19642
	-		No code – for core composition undefined according to ISO 6722 and ISO 19642

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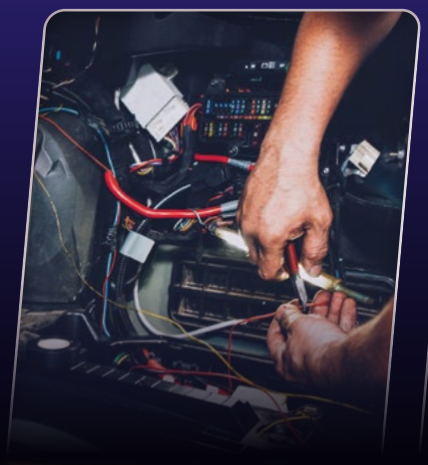
LOW VOLTAGE CABLES

SINGLE CORE CABLES
MULTICORE CABLES

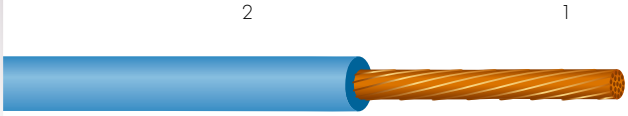
HIGH TEMPERATURE AREAS
PASSENGER COMPARTMENT



PLASTHERM® FLRY

-40°C to +105°C

Class B according to ISO 6722-1 and ISO 19642-3



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

• Extra 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	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)	Wire outer 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 wire outer diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.*

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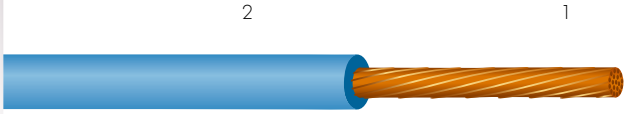
PLASTHERM® FLRYW

-40°C to +125°C

Class C according to ISO 6722-1 and ISO 19642-3



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

• Extra 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	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)	Wire outer 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 wire outer diameter for 0.35 mm² Type A with 7 strands shall be max 1.30 mm.*

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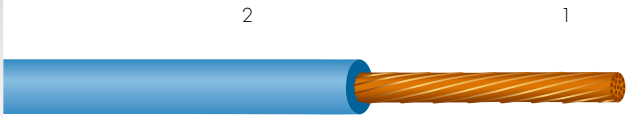
PLASTHERM® FLR11Y

-40°C to +150°C

Class D according to ISO 6722-1 and ISO 19642-3



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 insulationa ccording 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

- Extra 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	Type B	Thin wall			Bare copper	Tinned copper
Nominal Cross section (mm^2)	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)	Wire outer 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
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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 wire outer diameter for 0.35 mm^2 Type A with 7 strands shall be max 1.30 mm.*

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LES CABLES DE L'EXTREME

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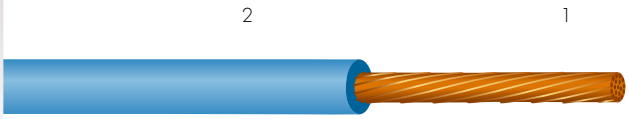
PLASTHERM® FLR2X

-40°C to +125°C

Class C according to ISO 6722-1 and ISO 19642-3



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

- Extra 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	Type B	Thin wall			Bare copper	Tinned copper
Nominal Cross section (mm^2)	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)	Wire outer 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

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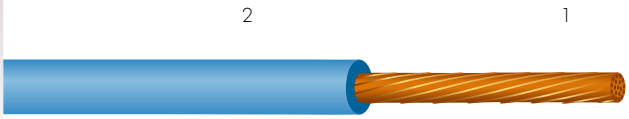
PLASTHERM® FLR41X

-40°C to +150°C

Class D according to ISO 6722-1 and ISO 19642-3



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

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

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

- Extra 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	Type B	Thin wall			Bare copper	Tinned copper
Nominal Cross section (mm^2)	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)	Wire outer 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

** The wire outer 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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omerin
LES CABLES DE L'EXTREME

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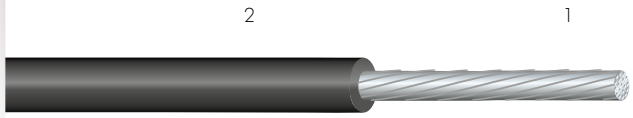
SILIFLON® FLR7Y

-40°C to +175°C

Class E according to ISO 6722-1 and ISO 19642-3



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

• Extra 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	Type B	Thin wall			Bare copper	Tinned copper
Nominal Cross section (mm^2)	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)	Wire outer 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 wire outer diameter for 0.35 mm^2 Type A with 7 strands shall be max 1.30 mm.*

For this product, please contact:

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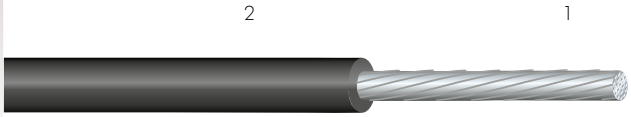
SILIFLON® FLR6Y

-40°C to +210°C

Class F according to ISO 6722-1 and ISO 19642-3



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

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

- Extra 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	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)	Wire outer 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 wire outer 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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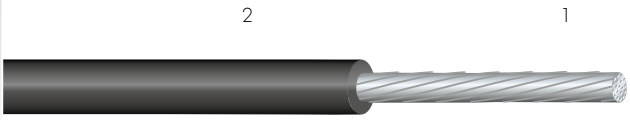
SILIFLON® FLR51Y

-40°C to +260°C

Class H according to ISO 6722-1 and ISO 19642-3



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

- Extra 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	Type B	Thin wall			Bare copper	Tinned copper
Nominal Cross section (mm^2)	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)	Wire outer 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 wire outer 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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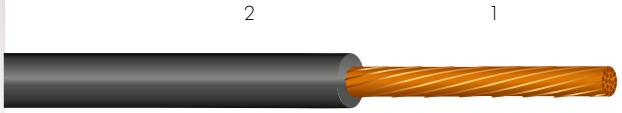
SILICABLE® FL2G

-40°C to +200°C

Class F according to ISO 6722-1 and ISO 19642-3



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	Type C	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)	Wire outer 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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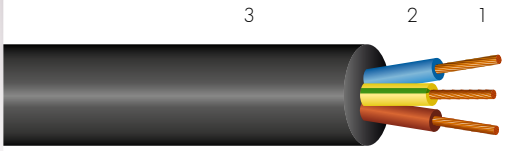
www.omerin.com

PLASTHERM® FLRYY

Multicore

-40°C to +105°C

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



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

Approvals - standards*

• ISO 6722-1, ISO 19642-1, ISO 19642-7, EN 13602

Applications

• Low voltage cables for general automotive wiring

Specific characteristics

• Version with a reduced insulation according to ISO 6722-1 and ISO 19642-7

Colour code

• Sheath : black
• Insulation :
  • 2 conductors : red, black
  • ≥ 3 conductors : HD308
  (contact us for any other requests)

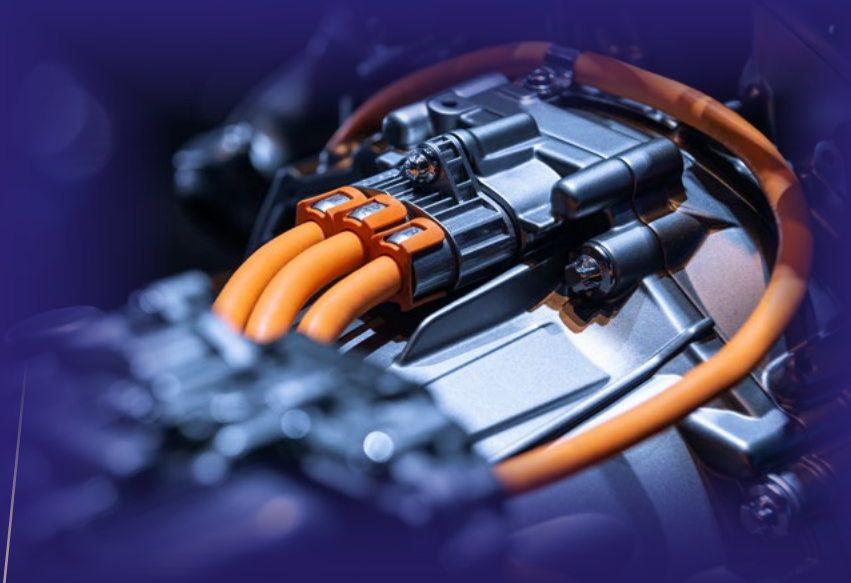
Option

• Shielded version ref. FLRYCY

CONSTRUCTION ACCORDING TO ISO 19642-7

Number of conductors	Nominal cross section (mm²)	Conductor diameter max. (mm)	Single core diameter min. (mm)	Single core diameter max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)
2	1.5	1.8	2.2	2.4	0.46	5.4	5.9
3	1.5	1.8	2.2	2.4	0.47	5.8	6.4
4	1.5	1.8	2.2	2.4	0.50	6.5	7.0
2	2.5	2.2	2.7	3.0	0.51	6.7	7.3
3	2.5	2.2	2.7	3.0	0.53	7.2	7.8
4	2.5	2.2	2.7	3.0	0.56	8.0	8.6
2	4	2.8	3.4	3.7	0.56	8.1	8.8
3	4	2.8	3.4	3.7	0.58	8.7	9.4
4	4	2.8	3.4	3.7	0.61	9.7	10.4
2	6	3.4	4.0	4.3	0.60	9.4	10.1
3	6	3.4	4.0	4.3	0.61	10.1	10.8
4	6	3.4	4.0	4.3	0.64	11.2	12.0
2	10	4.5	5.7	6.0	0.68	12.8	13.7
3	10	4.5	5.7	6.0	0.69	13.8	14.7
2	16	6.3	6.9	7.2	0.72	15.3	16.2
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



HIGH VOLTAGE CABLES

SINGLE CORE CABLES
MULTICORE CABLES

E-MOBILITY APPLICATIONS

SILICABLE®
FHL2G
Single core
-40°C à +180°C
Class E according to ISO 6722-1 and ISO 19642-1

+180°C (3000 h)
+205°C (240 h)

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 cables 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 outer diameter max. (mm)	Cable outer diameter min. (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 x 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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emobility@omerin.com

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SILICABLE®
FHLR2G-C

Single core

-40°C to +180°C

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

+180°C (3000 h)
+205°C (240 h)

1 • Flexible bare copper core according to ISO 6722-1, ISO 19642-5 et 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 cables 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
• Compatible with SCHUNK Sonosystems ultrasonic welding systems

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 outer diameter max. (mm)	Cable outer diameter min. (mm)	Maximum linear resistance at 20°C (Ω/ km)
A2512001	4	*Please refer to the SILICABLE® FHLR2G LV216 (FT11206)*					
A2512002	6	*Please refer to the SILICABLE® FHLR2G LV216 (FT11206)*					
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	70	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
A2512010	120	*Please refer to the SILICABLE® FHLR2G LV216 (FT11206)*					

** 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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SILICABLE®
FHLR2G LV216

Single core

-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)

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 cables 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
- Compatible with SCHUNK Sonosystems ultrasonic welding systems

Colour code

- Orange

(others on request)

CONSTRUCTION ACCORDING TO LV 216-2 TABLE A2

Item code	Nominal cross section (mm²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)	Cable outer diameter max. (mm)	Cable outer diameter 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	4.0	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	1.20	14.0	15.5	0.259
A2512009	95	3000 x 0.21	14.8	1.20	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

For this product, please contact:

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emobility@omerin.com

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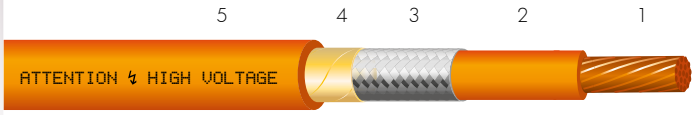
SILICABLE®
FHLR2GCB2G-C

Shielded single core

-40°C to +180°C

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

+180°C (3000 h)
+205°C (240 h)



1 • Flexible bare copper core 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
- TUV conformity to UN Regulation No. 118.04 (ECE R-118)

Applications

- Single core silicone power cables 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
- Compatible with SCHUNK Sonosystems ultrasonic welding systems

Colour code

- Orange

(others on request)

CONSTRUCTION ACCORDING TO ISO 19642-9

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 outer diameter min. (mm)	Single core outer diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)
A2510001	4	*Please refer to the SILICABLE® FHLR2GCB2G LV216 (FT11207)*									
A2510002	6	*Please refer to the SILICABLE® FHLR2GCB2G LV216 (FT11207)*									
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
A2510010	120	*Please refer to the SILICABLE® FHLR2GCB2G LV216 (FT11207)*									
A2510011	150	*Please refer to the SILICABLE® FHLR2GCB2G LV216 (FT11207)*									

** 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 LV216

Shielded single core

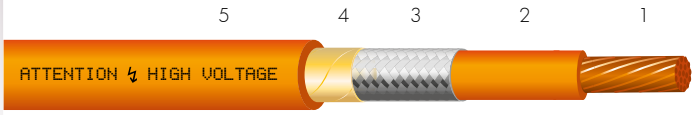
-40°C to +180°C

Class E according to ISO 6722-1

LV 216-2

+180°C (3000 h)

+205°C (240 h)



1 • 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 cables 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
- Compatible with SCHUNK Sonosystems ultrasonic welding systems

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 outer diameter min. (mm)	Single core outer diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)	Maximum linear 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
A2510011**	150	4560 x 0.21	17.5	1.28	20.2	22.0	0.21	1.16	24.0	26.0	0.122

** Standards: our products comply with all or part of the requirements of standards quoted: contact us*
*** OMERIN Innovation. Not defined in LV 216-2 Table A.2*
Other cross-sections available on request

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SILICABLE®
FHLR2GCB2GG

Shielded single core with reinforcing braid

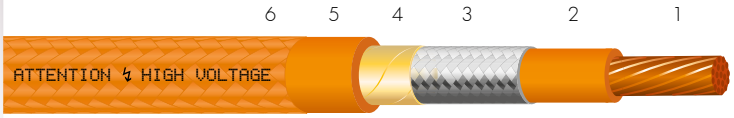
-40°C to +180°C

Class E according to ISO 6722-1

LV 216-2

+180°C (3000 h)

+205°C (240 h)



1 • 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
6 • Reinforcement : Coated synthetic fibre braid

Approvals - standards*

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

Applications

- Reinforced single core silicone power cables 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
- Improved mechanical strength and abrasion resistance thanks to synthetic fiber braid
- Compatible with SCHUNK Sonosystems ultrasonic welding systems

Colour code

- Orange

(others on request)

CONSTRUCTION INSPIRED BY 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 outer diameter min. (mm)	Single core outer diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)
B2501001	4	120 x 0.21	2.8	0.32	3.4	3.7	0.16	0.38	5.8	6.3	4.70
B2501002	6	183 x 0.21	3.4	0.32	4.0	4.3	0.16	0.46	6.5	7.0	3.10
B2501003	10	320 x 0.21	4.5	0.48	5.4	6.0	0.16	0.70	8.7	9.3	1.82
B2501004	16	512 x 0.21	5.8	0.52	6.6	7.2	0.16	0.70	10.1	10.7	1.16
B2501005	25	790 x 0.21	7.2	0.64	8.2	8.8	0.21	0.75	12.7	13.3	0.743
B2501006	35	1070 x 0.21	8.5	0.64	9.8	10.5	0.21	0.80	14.9	15.5	0.527
B2501007	50	1600 x 0.21	10.5	0.71	11.5	12.2	0.21	0.80	16.3	16.9	0.368
B2501008	70	2175 x 0.21	12.5	1.20	14.0	15.5	0.21	1.16	20.3	21.1	0.259
B2501009	95	3000 x 0.21	14.8	1.20	16.2	18.0	0.21	1.16	22.6	23.6	0.199
B2501010	120	3700 x 0.21	16.5	1.28	19.1	19.7	0.21	1.16	23.6	24.6	0.153
B2501011	150	4560 x 0.21	17.5	1.28	20.2	22.0	0.21	1.16	25.1	27.1	0.122

** 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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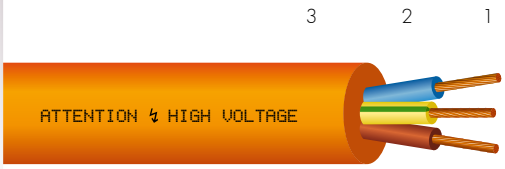
SILICABLE®
FHLR2G2G-C

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)



1 • Flexible bare copper core according to ISO 6722-1, ISO 19642-5 and EN 13602
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 cables 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 VDC
  - Test 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)	Single core diameter min. (mm)	Single core diameter max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)
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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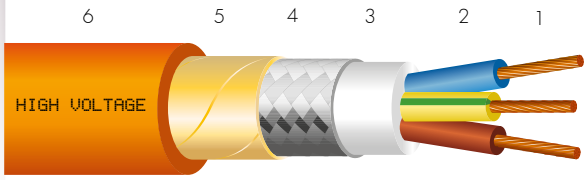
SILICABLE®
FHLR2GCB2G-C

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)



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 cables 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 VDC
  - Test 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)	Single core diameter min. (mm)	Single core diameter max. (mm)	Under screen diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)
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	15.7
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

For this product, please contact:

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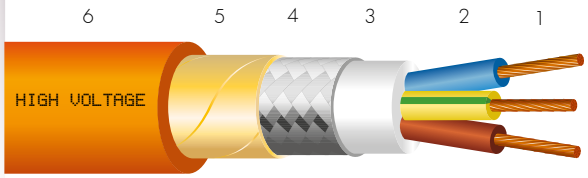
SILICABLE®
FHLR2GCB2G LV216

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)



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 cables 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

Item code	Number of conductors	Nominal cross section (mm²)	Conductor diameter max. (mm)	Single core diameter min. (mm)	Single core diameter max. (mm)	Under screen diameter max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)
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

For this product, please contact:

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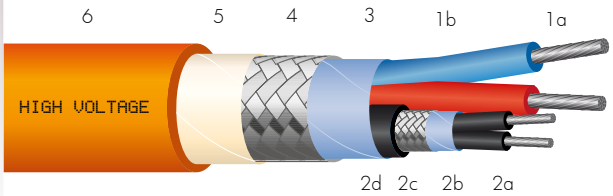
SILICABLE®
FHLR6YBCF2G

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)



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 • Tinned copper cores 0.5 mm² according to ISO 6722-1, ISO 19642-5 and EN 13602
2b • FEP insulation
2c • 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 cables for use in hybrid and electrical vehicles

Specific characteristics

• High Voltage requirements according to ISO 19642
• Voltage 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	Wire outer diameter		Cable outer diameter (mm)	Maximum linear resistance at 20°C (Ω / km)	
	(mm²)	4 mm²	0.5 mm²		4 mm²	0.5 mm²
G2504001	2 x 4 + 2 x 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

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EXTRA FLEXIBLE BATTERY CABLES

BATTERY CHARGERS

EXTRA FLEXIBLE BATTERY CABLES

FLEXBAT® ST

-15°C to +70°C

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 (mm^2)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Cable outer 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	2 257 x 0.20	14.8	0.272	775

For this product, please contact:

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Phone: +33 (0)4 77 36 07 00
polycable@omerin.com

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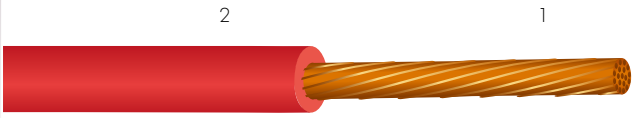
FLEXBAT® HT

-25°C to +105°C



1 • Extra flexible bare copper core - class 6 according to IEC 60228
2 • 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 (mm^2)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Cable outer 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

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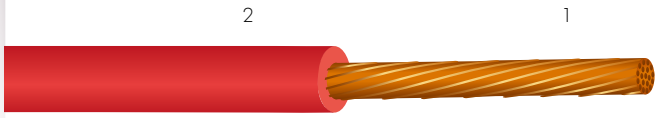
FLEXBAT® THT

-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)	Cable outer 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

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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

1 • Flexible or extra flexible bare copper core according to ISO 6722-1 and EN 13602
2 • Extra flexible 105°C PVC insulation
3 • 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
- Permanent immersion AD8 according to NF C32-102-16

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	Specific wall		Bare copper	
Nominal Cross section (mm^2)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Wire outer diameter nom. (mm)	Cable outer 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

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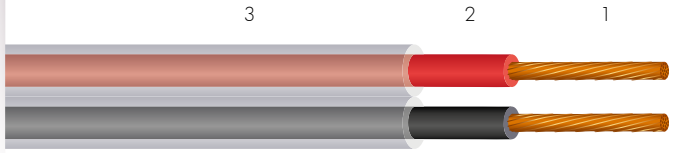
TWINBAT® RN

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



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

	Class 6	Specific wall		Bare copper	
Nominal Cross section (mm²)	Number of strands & strand diameter nom. / nom. (nb. x mm)	Wire outer diameter nom. (mm)	Cable outer 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	750
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

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SPECIAL AND CUSTOM MADE CABLES

SPECIFIC APPLICATIONS

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.

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).

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

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

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

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.**

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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www.omerin.com

HIGH TEMPERATURE BRAIDED SLEEVINGS

Insulating and protective sleevings

OUR PRODUCTS RANGE

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 F

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

APPLICATIONS

Class F alternator winding outputs insulation, gearbox hoses protection

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

Improved thermal insulation, fireproof protection

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

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 further information about our High temperature sleevings
Please download catalogue N°9
BRAIDED INSULATING SLEEVINGS

For this product, please contact:

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Notes

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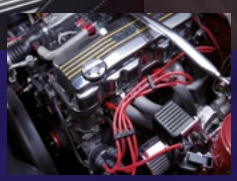

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