

**CABLE SOLUTIONS
FOR AUTOMOTIVE AND E-MOBILITY**

HIGH VOLTAGE SINGLE CORE CABLES

**SILICABLE®
FHLR2GCB2G-C**

Shielded single core

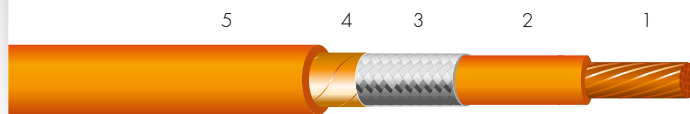
-40°C to +180°C

Class E according to ISO 6722-1

and ISO 19642-1

+180°C (3000 h)

+205°C (240 h)



- 1 • Flexible bare copper core (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.
- Excellent flexibility and High Voltage until 1000 VAC / 1500 VDC (600 VAC / 900 VDC for cross sections < 10 mm²)

Marking

- For cross sections < 10 mm² :
OMERIN 369 - FHLR2GCB2G-C < cross section > mm²
⚡ HIGH VOLTAGE MAX 600 VAC / 900 VDC
- ⚡ batch number
- For cross sections ≥ 10 mm² :
OMERIN 369 - FHLR2GCB2G-C < cross section > mm²
⚡ HIGH VOLTAGE MAX 1000 VAC / 1500 VDC
- ⚡ batch number

Characteristics

- High Voltage requirements according to ISO 19642

Electrical Characteristics	Cross sections < 10 mm ²	Cross sections ≥ 10 mm ²
Voltage rating	600 VAC / 900 VDC	1000 VAC / 1500 VDC
Test voltage	5 kV 5 minutes	10 kV 5 minutes
Sparktest	6 kV	8 kV

- Excellent flexibility
- Flame retardant

Colour code

Orange
(others on request)

CONSTRUCTION ACCORDING TO ISO 19642-9

Item code	Nominal cross section (mm ²)	Number & diameter of strands nom. /max. (nb. x mm)	Conductor diameter max. (mm)	Single core diameter		Strand diameter screen max. (mm)	Diameter under sheath max. (mm)	Wall thickness sheath		Cable outside diameter		Linear core resistance at 20°C (Ω/ km)
				min. (mm)	max. (mm)			nom. (mm)	min. (mm)	min. (mm)	max. (mm)	
A2507003	4	224 x 0.16	2.8	3.4	3.7	0.16	4.3	-	0.38***	5.3***	5.8***	4.71
A2507004	6	320 x 0.16	3.4	4.0	4.3	0.16	4.9	-	0.46***	6.0***	6.5***	3.14
A2507005	10	320 x 0.21	4.5	5.3	6.0	0.19	6.8	0.65	0.52	7.5	8.1	1.82
A2507006	16	512 x 0.12	6.3	6.4	7.2	0.19	8.0	0.8	0.64	9.0	9.6	1.16
A2507007	25	790 x 0.21	7.8	7.9	9.4	0.21	9.5	0.9	0.72	10.7	11.3	0.743
A2507008	35	1070 x 0.21	9.0	9.4	11.0	0.21	11.2	1.0	0.80	12.6	13.2	0.527
A2507009	50	1600 x 0.21	10.5	11.0	12.0	0.21	13.0	1.1	0.88	14.6	15.2	0.368
A2507010	70	1427 x 0.26	12.5	13.0	14.4	0.21	15.2	1.1	0.88	16.6	17.4	0.259
A2507011	95	1936 x 0.26	14.8	15.3	16.7	0.26	17.7	1.1	0.88	19.1	19.9	0.196
A2507012	120**	2450 x 0.26	16.5	17.7	19.7	0.26	20.7	1.7	1.36	23.3	24.1	0.153

* Standards: our products comply with all or part of the requirements of standards quoted: contact us

** According to 19642-9 in thick wall version table A.4

*** According to LV 216-2

Other cross-sections available on request

For this product, please contact:

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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 for the conditions of a complete study in our laboratories.
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