

CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

HIGH VOLTAGE SINGLE CORE CABLES

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)



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)



- 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

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. max. (mm)	Strand diameter screen max. (mm)	Sheath thickness min. (mm)	Cable outer diameter min. 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

For this product, please contact:

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omerin
LES CABLES DE L'EXTREME

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