

CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY

HIGH VOLTAGE SINGLE CORE CABLES

SILICABLE® FHL2G ISO

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)



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)	Flexibility	Nominal stranding (nb. x mm)	Conductor diameter max. (mm)	Insulation thickness min. (mm)	Cable outer diameter min. (mm)	Cable outer diameter max. (mm)	Maximum linear resistance at 20°C (Ω/ km)
A2504005 A2503013	0.50	Flexible (B) Extra-flexible (-C)	16 x 0.21 26 x 0.16	1.10	0.48	2.00	2.30	37.100
A2504001 A2503014	0.75	Flexible (B) Extra-flexible (-C)	24 x 0.21 38 x 0.16	1.30	0.48	2.20	2.50	24.700
A2504002 A2503015	1	Flexible (B) Extra-flexible (-C)	32 x 0.21 54 x 0.16	1.50	0.48	2.40	2.70	18.500
A2504003 A2503016	1.5	Flexible (B) Extra-flexible (-C)	30 x 0.26 76 x 0.16	1.80	0.48	2.70	3.00	12.700
A2504004 A2503017	2.5	Flexible (B) Extra-flexible (-C)	50 x 0.26 140 x 0.16	2.20	0.56	3.30	3.60	7.600
A2504007 A2503005	4	Flexible (B) Extra-flexible (-C)	56 x 0.31 224 x 0.16	2.80	0.64	4.00	4.40	4.710
A2504008 A2503006	6	Flexible (B) Extra-flexible (-C)	84 x 0.31 320 x 0.16	3.40	0.64	4.60	5.00	3.140
A2504009 A2503007	10	Flexible (B) Extra-flexible (-C)	80 x 0.41 320 x 0.21	4.50	0.80	5.90	6.50	1.820
A2504010 A2503008	16	Flexible (B) Extra-flexible (-C)	126 x 0.41 512 x 0.21	6.30	0.80	7.70	8.30	1.160
A2504006 A2503009	25	Flexible (B) Extra-flexible (-C)	196 x 0.41 790 x 0.21	7.80	1.04	9.40	10.40	0.743
A2504011 A2503010	35	Flexible (B) Extra-flexible (-C)	276 x 0.41 1 070 x 0.21	9.00	1.04	9.60	11.60	0.527
A2504012 A2503002	50	Flexible (B) Extra-flexible (-C)	396 x 0.41 1 600 x 0.21	10.50	1.20	11.50	13.50	0.368
A2504013 A2503004	70	Flexible (B) Extra-flexible (-C)	360 x 0.51 2 147 x 0.21	12.50	1.20	13.50	15.50	0.259
A2504014 A2503011	95	Flexible (B) Extra-flexible (-C)	475 x 0.51 3 000 x 0.21	14.80	1.28	16.00	18.00	0.196
A2504015 A2503012	120	Flexible (B) Extra-flexible (-C)	608 x 0.51 3 724 x 0.21	16.50	1.28	17.70	19.70	0.153

For this product, please contact:

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

www.omerin.com

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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.