

CABLE SOLUTIONS
FOR AUTOMOTIVE AND E-MOBILITY

HIGH VOLTAGE CABLES

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 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 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		Sheath thickness min. (mm)	Cable outside diameter	
				min. (mm)	max. (mm)		min. (mm)	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

For this product, please contact:

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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 for the conditions of a complete study in our laboratories.
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