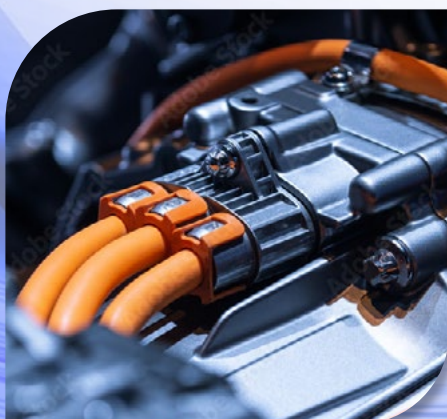
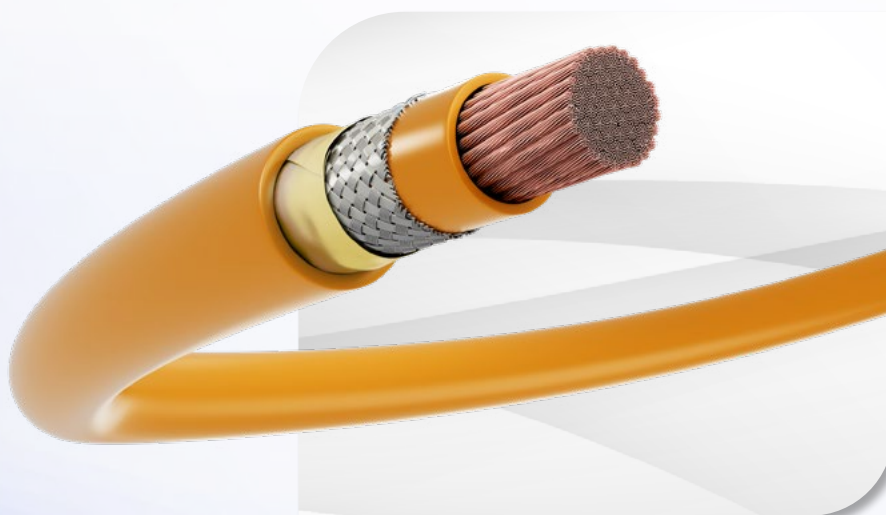


SILICABLE®

FHLR2GCB2G

HIGH VOLTAGE
AUTOMOTIVE CABLES
FOR E-MOBILITY APPLICATIONS



- ✓ High voltage **until 1000 VAC / 1500 VDC**
- ✓ According to **ISO 19642**
- ✓ Available in **Single core and Multicore**
- ✓ High temperature **+180°C**
- ✓ **Excellent flexibility**
- ✓ **Dual shielding**
- ✓ **High current carrying capacity**

SILICABLE® FHLR2GCB2G

Construction according to ISO 19642-9



- **High Voltage requirements**
600 VAC / 900 VDC for cross sections < 10 mm²
1000 VAC / 1500 VDC for cross sections ≥ 10 mm²
- **High temperature**
-40°C to +180°C, Class E (3000 h)
- **Excellent flexibility**
Excellent flexibility by using silicone material (insulation + sheath) and flexible bare copper core
- **Dual Shielding**
With tinned copper braid and aluminium / PET tape
- **Halogen Free & Flame Retardant**

Shielded single core

Nominal cross section (mm ²)	Nb. & diam. of strands (Type C) (nb. x mm max)	Conductor diameter (mm) max.	Single core diameter (mm)		Strand diameter screen (mm) max.	Diameter under sheath (mm) max.	Wall thickness sheath (mm)		Cable outside diameter (mm)		Linear core resistance at 20°C (Ω / km)
			min.	max.			nom.	min.	min.	max.	
4	224 x 0.16	2.8	3.4	3.7	0.16	4.3	0.4	0.32	5.3**	5.8**	4.71
6	320 x 0.16	3.4	4.0	4.3	0.16	4.9	0.6	0.48	6.0**	6.5**	3.14
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
16	512 x 0.21	6.3	6.4	7.2	0.19	8.0	0.8	0.64	9.0	9.6	1.16
25	790 x 0.21	7.8	7.9	8.7	0.21	9.5	0.9	0.72	10.7	11.3	0.743
35	1070 x 0.21	9.0	9.4	10.4	0.21	11.2	1.0	0.80	12.6	13.2	0.527
50	1600 x 0.21	10.5	11.0	12.2	0.21	13.0	1.1	0.88	14.6	15.2	0.368
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
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
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

*According to 19642-9 table A.4

**According to LV 216-2

Shielded multi core

Number of cores (nb)	Nominal cross section (mm ²)	Conductor diameter (mm) max.	Single core diameter (mm) max.	Cable outside diameter (mm)		Maximum linear resistance at 20°C (Ω/km)
				min.	max.	
2	1.5	1.8	2.4	6.8	7.4	12.7
3	1.5	1.8	2.4	7.3	7.9	12.7
4	1.5	1.8	2.4	8.0	8.6	12.7
5	1.5	1.8	2.4	8.6	9.4	12.7
2	2.5	2.2	3.0	8.2	8.9	7.60
3	2.5	2.2	3.0	8.8	9.5	7.60
4	2.5	2.2	3.0	9.7	10.4	7.60
5	2.5	2.2	3.0	10.1	11.1	7.60
2	4	2.8	3.7	9.9	10.6	4.71
3	4	2.8	3.7	10.5	11.2	4.71
4	4	2.8	3.7	11.5	12.3	4.71
5	4	2.8	3.7	12.4	13.6	4.71
2	6	3.4	4.3	11.2	11.9	3.14
3	6	3.4	4.3	11.9	12.7	3.14
4	6	3.4	4.3	13.1	13.9	3.14
5	6	3.4	4.3	14.6	15.4	3.14
2	10	4.5	6.0	14.8	15.7	1.82
3	10	4.5	6.0	15.9	16.9	1.82
2	16	6.3	7.2	17.4	18.5	1.16
3	16	6.3	7.2	18.6	19.7	1.16

Other cross-sections or constructions on request

