

CABLE SOLUTIONS  
FOR AUTOMOTIVE AND E-MOBILITY

## HIGH VOLTAGE MULTICORE CABLES

# SILICABLE® FHLR6YBCF2G

Shielded 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)

### Approvals - standards\*

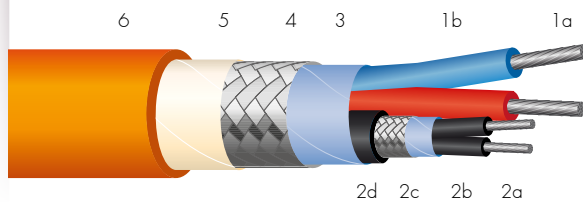
- ISO 19642-9, ISO 19642-5, ISO 6722-1, EN 13602

### Applications

- Multicore and shielded silicone power cable for use in hybrid and electrical vehicles.
  - Excellent flexibility and high voltage until 600 VAC / 900 VDC

### Marking

OMERIN 369 - FHLR6YBCF2G  
< 2 x 4 mm<sup>2</sup> Sn + (2x0.5 mm<sup>2</sup> Sn BC6Y) >  
⚡ HIGH VOLTAGE MAX 600 VAC / 900 VDC  
- ⚡ batch number



### 2x4 mm<sup>2</sup> conductors

- 1a • Tinned copper cores 4 mm<sup>2</sup> according to ISO 6722-1, ISO 19642-5 and EN 13602
- 1b • FEP insulation

### 2x0.5 mm<sup>2</sup> shielded twisted pair

- 2a • Tinned copper cores 0.5 mm<sup>2</sup> according to ISO 6722-1, ISO 19642-5 and EN 13602
- 2b • FEP insulation
- 2c • Double shielding: aluminium / PET tape and tinned copper braid
- 2d • FEP sheath

- 3 • Aluminium / PET tape
- 4 • Tinned copper braid
- 5 • PET tape
- 6 • External silicone sheath

### Characteristics

- High Voltage requirements according to ISO 19642

#### Electrical Characteristics

Voltage rating	600 VAC / 900 VDC
Test voltage	5 kV 5 minutes
Sparktest	6 kV

- Excellent flexibility
- Flame retardant

### Colour code

Orange  
(others on request))

### CONSTRUCTION

Item code	Composition (mm <sup>2</sup> )	Outside wire diameter max. (mm)		Cable outside diameter nom. (mm)	Maximum linear resistance at 20°C (Ω/km)	
		4 mm <sup>2</sup>	0.5 mm <sup>2</sup>		4 mm <sup>2</sup>	0.5 mm <sup>2</sup>
G2504001	2x4 + 2x0.5	3.7	1.6	11.2	4.85	38.2

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

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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 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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