

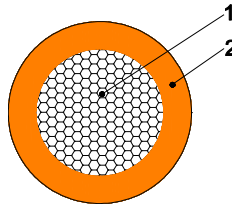
LEONI Part No.: **FHL2G00093**

**Ungeschirmte Silikon isolierte HV Leitung für automobiler Anwendungen**  
**Unshielded silicone insulated HV cable for automotive applications**

**FHL2G 6,0/0,21/T200/600V AC / 1000V DC or**

**1. Leitungsaufbau / Construction**

**1.1. Leitungsquerschnittszeichnung / Cross section drawing**



**1.2. Aufbaubeschreibung / Design characterization**

**1.2.1. Leiter / Conductor (1)**

Cu-Litze, blank, Cu ETP 1 gem. EN 13602  
*Stranded copper wire, bare, Cu ETP1 acc. to EN 13602*

**1.2.2. Isolierung / Insulation (2)**

Kerbfestes Silikon, flammwidrig und halogenfrei  
*High tear resistant silicone, flame-retardant and halogene free*

**1.2.3. Standardaufdruck / Marking**

Text: **LEONI SILITHERM FHL2G 6,0mmq ⚡ ATTENTION HIGH VOLTAGE**  
**MAX 600 V AC / 1000 V DC ⚡ FHL2G00093 Chargennummer**

**1.3. Aufbaudaten / Design data**

Nennquerschnitt <i>Nominal Cross Section</i>	Einzeldrahtdurchmesser <i>Single wire diameter</i>	Drahtanzahl Richtwert <i>No. of wires</i>	Litzen-Ø <i>Conductor-Ø</i>	Wandstärke <i>Wall thickness</i>	Außen-Ø <i>Outer-Ø</i>
nom. [mm <sup>2</sup> ]	nom. [mm]	nom.	nom. [mm]	min. [mm]	[mm]
<b>6,0</b>	<b>0,20</b>	<b>192</b>	<b>3,2</b>	<b>0,64</b>	<b>4,8 ± 0,2</b>

Erstellt <i>Creator</i>	Geprüft <i>Released</i>	Erzeugnisnr. <i>Part No.</i>	Änderungsindex <i>Version</i>	Ausgabedatum <i>Date of issue</i>	Beschreibung <i>Description</i>
S.Ramer	M. Guindani	FHL2G00093	0.1	24.06.2021	Entwurf / Draft

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"Depending on the system settings, other rounding methods may be used in addition to the "round half up" rule to calculate the price and to determine the individual factors. In certain cases, this may lead to slight differences, either upwards or downwards, compared to the "round half up" rule."

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## 2. Elektrische Eigenschaften / Electrical characteristics (20°C)

- |  |                    |
|--|--------------------|
| 2.1. Leiterwiderstand<br><i>Conductor resistance (1)</i> | max. 3,1 Ω/km      |
| 2.2. Spannungsfestigkeit<br><i>Withstand voltage</i>     | 5 kV (AC)          |
| 2.3. Isolationsfehler<br><i>Insulation faults</i>        | 8 kV (AC)          |
| 2.4. Betriebsspannung<br><i>Operating voltage</i>        | 600V AC / 1000V DC |

## 3. Mechanische Eigenschaften / Mechanical characteristics

- |   |              |
|---|--------------|
| 3.1. Leitungsgewicht<br><i>Cable weight</i>   | ca. 67 kg/km |
| 3.2. Kupferzahl<br><i>Copper Sales Factor</i>   | 57,6 kg/km   |
| 3.3. Minimaler Biegeradius für statische Verlegung<br><i>Minimun bending radius for static laying</i> | 3 x d        |

## 4. Thermische Eigenschaften / Thermal characteristics

- |  |                     |
|--|---------------------|
| 4.1 Betriebstemperatur (3000 h)<br><i>Operating Temperature (3000 h)</i> | -40°C bis/to +200°C |
|--|---------------------|

## 5. Normen/standards

In Anlehnung / *sim.* LV 216-1, ISO 6722-1; ISO 19642-5  
 Halogenfreiheit / Halogen-free IEC 60754-1, 60754-2

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