

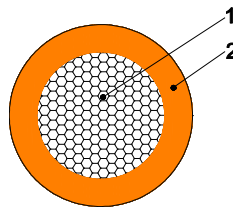
LEONI Part No.: **FHL2G00093**

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 ²] | nom. [mm] | nom. | nom. [mm] | min. [mm] | [mm] |
| 6,0 | 0,20 | 192 | 3,2 | 0,64 | 4,8 ± 0,2 |

| 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 |

*Some of the terms used in this document are not used consistently in the industry. LEONI, however, endeavours to use terminology consistently in the interests of transparent business relationships and customer communication. In order to avoid difficulties in their interpretation, we refer you to the definitions of the terms used by us available at www.leoni.com/en/company/copper-business. The current version at the time this document was sent is the binding version. These definitions form part of the contract. If the terms defined there are used in this document, they have the meaning given there. The actual version of our definitions is available to you also already when the contract is concluded. We will be pleased to provide you with a list of these definitions if required.

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

3. Mechanische Eigenschaften / *Mechanical characteristics*

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

4. Thermische Eigenschaften / *Thermal characteristics*

| | |
|--|---------------------|
| 4.1 Betriebstemperatur (3000 h) <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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