

4 125000 Internal	DATA SHEET	
valid from: 2025-08-13	LiY single core	

Application

LiY single core is a stranded hook-up wire for telecommunication devices and electronic components. These cables are suited for occasional flexing use and fixed installation in dry and wet rooms.

Design

Design	based on VDE 0812
Conductor	bare copper wires, conductor make-up: 0.14 mm ² : ca. 18 x 0,10 mm 0.25 mm ² : ca. 14 x 0,15 mm
Insulation	PVC
Core identification code	one or two colours (two colours: with twin colour helix)

Electrical properties at 20 °C

Conductor resistance	0.14 mm ² : max. 138.0 Ω/km 0.25 mm ² : max. 79.0 Ω/km
Insulation resistance	> 200 MΩ x km
Maximum operating voltage	0.14 mm ² : 500 V AC 0.25 mm ² : 900 V AC (not intended to be used in conjunction with low impedance sources, such as power grids)
Test voltage	C/C and C/S: 0.14 mm ² : 1200 V AC 0.25 mm ² : 2500 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 10 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temperature fixed installation: -30 °C up to +70 °C max. conductor temperature
Flammability	flame retardant acc. to EN 60332-1-2 resp. IEC 60332-1-2

Tests based on DIN VDE 0812

General requirements These cables are conform to EU-Directive 2014/35/EU (Low Voltage Directive) and to EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

Note Trade product, no Lapp product

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