


4530101	DATA SHEET	
valid from: 2025-08-13	LiYCY single core	

Application

LiYCY single core is a screened, single core for wiring of measurement instruments, transmission and receiving equipment, switch gear cabinets and electrical components. The screening provides protection against electrical interferences. The cable is used in dry, damp and wet interiors but not appropriate for outside usage.

Design

Design	based on VDE 0812
Conductor	tinned 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 0.5 bis 2.5 mm ² : acc. to IEC 60228 resp. EN 60228, class 5
Insulation	PVC TI2 acc. to EN 50363-3
Screen	braid of tinned copper wires
Outer sheath	PVC TM2 acc. to EN 50363-4-1 Colour of the sheath: transparent

Electrical properties at 20 °C

Conductor resistance	0.14 mm ² : max. 148.0 Ω/km 0.25 mm ² : max. 79.9 Ω/km 0.5 bis 2.5 mm ² : acc. to IEC 60228 resp. EN 60228, class 5
Specific volume resistivity	> 10 G Ω x cm
Maximum operating voltage	0.14 mm ² : 350 V AC ≥ 0.25 mm ² : 500 V AC (not intended to be used in conjunction with low impedance sources, such as power grids)
Test voltage	C/C: 800 V AC C/S: 800 V AC

Mechanical and thermal properties

Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temperature fixed installation: -30 °C up to +80 °C max. conductor temperature
Flammability	flame retardant acc. to EN 60332-1-2 resp. IEC 60332-1-2

Tests

General requirements

based on DIN VDE 0812
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

AbN
automation

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