

**SIWAREX Ex-Cable****LI2Y 1 x 2 x 0,75ST + 2 x (2 x 0,34ST) - CY****7MH4702-8AF**Date of issue 07/2015  
A5E36409652A/002**Structure:****a) Shielded pairs LI2Y(ST) 1 x 2 x 0.75/2.2:**

wire LI2Y 0.75/2.2  
copper strand 24 x 0.2 BLW      Ø 1.15 mm  
polythene insulation (PE)      Ø 2.2 mm  
wall thickness approx. 0.5 mm

2 wires as a twisted pair  
aluminum coated foil overlapped

**b) Shielded pairs LI2Y(ST) 1 x 2 x 0.34/1.6:**

wire LI2Y 0,34/1,6  
copper strand 19 x 0.15 BLW      Ø 0.76 mm  
polythene insulation (PE)      Ø 1.6 mm

2 wires as twisted pair  
aluminum coated foil overlapped

**Core:**

2 pairs LI2Y(ST) 1 x 2 x 0.34/1,6 WT/RD, GR/GN  
1 pair LI2Y(ST) 1 x 2 x 0.75/2.2 BK/BL  
+ gap filler  
holding helix  
shield mesh of CU wire      Ø 0.15 mm VZN  
covering approx. 75 %      Ø 8.8 mm

**Sheath:**

polyvinylchloride (PVC) BL  
wall thickness approx. 1.0 mm      Ø (10.8 ±0.3) mm

**Electrical properties at 20 °C:**

Conductor resistance (0.75 mm <sup>2</sup> )	≤ 27 Ω/km
Conductor resistance (0.34 mm <sup>2</sup> )	≤ 58 Ω/km
Insulation resistance	≥ 200 MΩ x km
Operating capacitance (1 kHz) (wire/shield) (pairs acc. to a+b)	≤ 110 nF/km
Operating capacitance (1 kHz) (wire/wire) (pairs acc. to b)	≈ 70 nF/km
Operating capacitance (1 kHz) (wire/wire) (pairs acc. to a)	≈ 80 nF/km
Inductance	≤ 1.25 μH/m
Operating voltage (peak voltage)	≤ 100 V
Test voltage (wire/wire/shield rms 50 Hz 1 min)	= 1000 V

**Mechanical properties and thermal behavior:**

Conductor material acc. to DIN EN 13602 Cu-ETP1-A...  
 Shield material acc. to DIN EN 13602 Cu-ETP1-A...-B  
 Insulation material acc. to DIN EN 50290-2-23 (VDE 0819) gap L/MD (HD 624.3)  
 Sheath material acc. to DIN EN 50290-2-22 (VDE 0819), mixture type TM52 (HD 624.2)  
 Flame-retardant to IEC 60332-1-2

**Application / features:**

RoHS compliant (Directive 2011/65/EC)

Application temperature: -40 °C to +80 °C

Minimum bending diameter: several times 15x Ø, once 10x Ø

Weight approx.: 135 kg/km

**Recommended signal assignment:**

Function	Color
EXC+	BL
EXC-	BK
SIG+	WT
SIG-	RD
SENSE+	GN
SENSE-	GR