

SIWAREX Cable

LI2Y 1 x 2 x 0,75ST + 2 x (2 x 0,34ST) - CY

7MH4702-8AG

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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) OR
wall thickness approx. 1.0 mm Ø (10.8 ±0.3) mm

Electrical properties at 20 °C:

Conductor resistance (0.75 mm ²)	≤ 27 Ω/km
Conductor resistance (0.34 mm ²)	≤ 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