



SCREEN CABLE

300/500V

Flame Retardant
UV-Resistant
RoHS Compliance

SMI CABLE

Multi Core, Cu, PVC - Insulation, Collective screen with Tin Copper Braided, PVC - Sheath
 LiYCY-OZ (with numbering) LiYCY-JZ (with numbering+green/yellow) LiYCY-JB (with colour)

Application

For signaling, power station, air conditioning systems, refrigeration plants, conveyors belts, machine industries & production line. The cable is used in dry, damp, and wet room but not suitable for open air at medium mechanical stress. The dense screening assures disturbance-free transmission of all signal and impulse.

Not recommended for direct burial.

Cable Constructions



- Conductor** : Plain Annealed Copper Wire, Class 5 IEC 228
- PVC Insulation** : Polyvinyl Chloride, Lead Free (PVC 80°C)
- Taping** : Covered as helically by polyester tape
- Screen** : Braided tin copper wire, Approx. 60% coverage
- PVC Outer Sheath** : Polyvinyl chloride, RoHS, Flame retardant, UV resistant (PVC 80°C Grey)

Cable Marking as exemple ;

- SMI CABLE LIYCY-OZ 3N 1.5 sqmm 300/500V ="Length" M= "Tracebilly code"
- SMI CABLE LIYCY-JZ 3G 1.5 sqmm 300/500V ="Length" M= "Tracebilly code"
- SMI CABLE LIYCY-JB 3G 1.5 sqmm 300/500V ="Length" M= "Tracebilly code"
- SMI CABLE LIYCY-JB 3C 1.5 sqmm 300/500V ="Length" M= "Tracebilly code"

Technical Data

Insulation & Outer sheath :

- Spark Test** : 5000 V
- Test Voltage a.c., 50 Hz** : 4000 V 5 min.
- Insulation resistance** : Min. 20 Mohm x km
- Material contain of PVC** : RoHS Compliance
- Nominal Voltage** : 300/500 V
- Min. bending radius** : 4 x cable Dia.
- Flame propagation** : IEC 60332-1
- Screen Resistance** : Min. 1 M ohm km

Electrical data at 20°C

Item Inspection	Character	Unit	Values					
Conductor size	nom.	mm ²	0.5	0.75	1	1.5	2.5	4
Wire construction	-	-/mm	16/0.195	24/0.195	32/0.195	30/0.24	50/0.24	56/0.29
Conductor resistance Copper at 20°C	max.	ohm/km	39	26	19.5	13.3	7.98	4.95
Insulation resistance at 20°C	min.	Moh mkm	20					
Test Voltage								
U _{rms} core to core	-	Volt/min	4000/5					
U _{rms} core to screen	-	Volt/min	1000/1					
Mutual capacitance at. 0.8 resp. 1 kHz								
Core to core	Max.	pF/m	120					
Core to screen	Max.	pF/m	270					
Operating voltage	U _{rms}	max Volt	300					