LI2YCY-PiMF



Areas of Use

These polyethylene insulated and double screened signal transmission cables are used for indoor applications. These used in electronic control systems of in communication sector, electronic circuits, measurement devices, machine design, office equipment, computer systems which requires sensitive signal transmission, not being affected by electromagnetic signals.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: Class 2)
Insulation	PE (EN 50290-2-23)
Core Colors	DIN 47100 (4 cores colors, white, yellow, brown, green)
Separator	PET Foil
Individual Screen	Al-PET Foil (with Stranded Tinned Copper Drain Wire)
Lay-up	All shielded pairs are stranded in layers
Separator	PET Foil
Overall Screen	Tinned Copper Wire Braiding (60% Coverage)*
Outer Sheath	PVC (EN 50290-2-22), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755

Technical Properties

Operating Voltage	0.14 mm²..0.25 mm² 250 V; 0.34 mm²..1.50 mm² 300 V / 500 V; 2.50 mm²..... 450 V / 750 V
Test Voltage	0.14 mm² - 800 V; 0.22 mm² ....1.00 mm²- 1200 V; 1.50 mm²..... 2.50 mm² - 2500 V
Loop Resistance	0.22 mm²- ≤170 Ω/km; 0.34 mm²- ≤112 Ω/km; 0.50 mm²- ≤78 Ω/km; 0.75 mm²- ≤52 Ω/km; 1.00 mm²- ≤39 Ω/km
Insulation Resistance	>5000 M.Ωxkm
Capacitance (@800Hz)	Core - Core: 0.22 mm²..0.34 mm²-≤70 nF/km; 0.50 mm²-≤75 nF/km; 75 mm²-≤80nF/km;1.00 mm²-≤85nF/km
Impedance	0.22 mm²..0.34 mm²-85 Ω(1MHz); 0.50 mm²-80 Ω(1MHz); 0.75 mm²-75±3 Ω(1MHz); 1.00 mm²-70 Ω(1MHz)
Indutance (approx.)	0.4 mH/km
Temperature Range	Fixed: -30 °C .....+70 °C, Flexible: -5 °C .....+70 °C
Flame Retardancy	IEC/EN 60332-1
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.5	8.1	35	85
3x2x0.5	8.6	47	106
4x2x0.5	9.6	59	135

5x2x0.5	10.6	72	163
6x2x0.5	11.7	85	196
8x2x0.5	12.9	108	247
10x2x0.5	15.2	134	312
2x2x0.75	9.1	51	110
3x2x0.75	9.8	70	143
4x2x0.75	10.8	89	179
5x2x0.75	12.0	109	221
6x2x0.75	13.3	129	264
8x2x0.75	14.5	167	330
10x2x0.75	17.3	214	428
2x2x1	9.7	61	127
3x2x1	10.4	84	166
4x2x1	11.4	108	208
5x2x1	12.8	132	260
6x2x1	14.1	157	306
8x2x1	15.3	203	383
10x2x1	18.3	260	495

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