LI2Y(St)CH (RS - 485)



Areas of Use

Used in industrial automation systems for computer networks and electronic control systems for data transmission. Provides longer transmission lengths and larger data rates compared to RS 232-422. HFFR versions are less flammable in case of fire, mostly self-extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during a fire.

Cable Construction

Conductor	0.22 mm² Stranded Tinned Copper (7x0.20 mm AWG 24), 0.34 mm² Stranded Tinned Copper (7x0.25 mm AWG 22)
Insulation	PE (EN 50290-2-23, VDE 0207-2YI1)
Lay-up	Cores are twisted as pairs and pairs are stranded in layers
Separator	PET Foil
1. Screen	Al-PET Foil (with stranded tinned copper drain wire)
2. Screen	Tinned Copper Wire Braid
Outer Sheath	HFFR (EN 50290-2-27), RAL 7001 - Grey
Core Colors	DIN 47100

Technical Properties

Operating Voltage	300 V
Test Voltage	1200 V
Velocity of Propagation	0,66
Insulation Resistance	>5000 M.Ωxkm
Capacitance (@800Hz)	Core - Core: ≤45 nF/km, Core - Cores - Screen: ≤80 nF/km
Characteristic Impedance	120±10 Ω
Loop Resistance	AWG 24: ≤182 Ω/km; AWG 22: ≤115 Ω/km; AWG 20: ≤72 Ω/km
Temperature Range	-30 °C.....+70 °C
Flame Retardancy	IEC/EN 60332-1
Smoke Density	IEC/EN 61034-1
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min. Bending Radius (Fixed)	10 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.22	5.7	21	46
2x2x0.22	8.2	34	77
3x2x0.22	8.7	40	89

4x2x0.22	9.5	47	104
1x2x0.34	6.0	25	52
2x2x0.34	8.7	41	87
3x2x0.34	9.2	49	102
4x2x0.34	10.1	57	119

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