LI2Y(St)CH (RS 232 - 422)



Areas of Use

Used for transmission of the data signal in computer, information and communication systems as well as process control for computer systems and terminals. 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)
Core Colors	DIN 47100 (4 cores colors, white, yellow, brown, green)
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

Technical Properties

Operating Voltage	300 V
Test Voltage	1200 V
Velocity of Propagation	0,66
Insulation Resistance	>5000 M.Ωxkm
Capacitance (@800Hz)	Core - Core: ≤52 nF/km, Core - Cores - Screen: ≤90 nF/km
Characteristic Impedance	100±10 Ω
Loop Resistance	AWG 24: ≤182 Ω/km; AWG 22: ≤115 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	5.8	15	42
2x2x0.22	8.2	24	67
3x2x0.22	8.7	30	79
4x2x0.22	9.5	36	93

1x2x0.34	6.1	18	47
2x2x0.34	8.7	30	76
3x2x0.34	9.2	38	92
4x2x0.34	10.2	46	111

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