

## LI2Y(St)CH -PiMF (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

<b>Conductor</b>	0.22 mm <sup>2</sup> Stranded Tinned Copper (7x0.20 mm AWG 24), 0.34 mm <sup>2</sup> Stranded Tinned Copper (7x0.25 mm AWG 22)
<b>Insulation</b>	PE (EN 50290-2-23, VDE 0207-2Y11)
<b>Separator</b>	PET Foil
<b>1. Screen</b>	Al-PET Foil (with stranded tinned copper drain wire)
<b>Lay-up</b>	All shielded pairs are stranded in layers
<b>2. Screen</b>	Al-PET Foil
<b>3. Screen</b>	Tinned Copper Wire Braid
<b>Outer Sheath</b>	HFFR (EN 50290-2-27), RAL 7001 - Grey
<b>Core Colors</b>	DIN 47100

### Technical Properties

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

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x2x0.22	8.9	38	83
3x2x0.22	9.4	47	103

4x2x0.22	10.4	56	127
2x2x0.34	9.4	45	96
3x2x0.34	10.0	56	116
4x2x0.34	11.1	68	145

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