

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

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|--------------|--|
| 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 0207-2Y11) |
| Separator | PET Foil |
| 1. Screen | Al-PET Foil (with stranded tinned copper drain wire) |
| Lay-up | All shielded pairs are stranded in layers |
| 2. Screen | Al-PET Foil |
| 3. 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) |
|--|----------------------------|-------------------------|--------------------------|
| 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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