

LIHH



Areas of Use

LIHH cables are used in the industrial applications for indoor use for signal transmission. These can be easily used with their flexible construction in narrow applications like electronic control systems of computer or audio systems or the communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. LIHH cables have HFFR material in their construction and these don't burn easily and the flames go off by themselves. These have low smoke density and these don't emit poisonous and corrosive gases during the fire. These are used in buildings where there are important goods or human population.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm ² : Class 2)
Insulation	HFFR (EN 50290-2-26)
Core Colors	DIN 47100 (4 cores colors, white, yellow, brown, green)
Lay-up	Cores are stranded in layers
Outer Sheath	HFFR (EN 50290-2-27), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755
CPR Classes	B2ca s1a d1 a1

Technical Properties

Operating Voltage	0.14 mm ² ..0.25 mm ² 250 V; 0.34 mm ² ..1.50 mm ² 300 V / 500 V; 2.50 mm ² 450 V / 750 V
Test Voltage	0.14 mm ² ..25 mm ² 1200 V; 0.34 mm ² ..10 mm ² 1500 V; 1.50 mm ² 2500 V
Conductor Resistance	0.14 mm ² - ≤138 Ω/km; 0.22 mm ² - ≤85 Ω/km; 0.25 mm ² - ≤77.8 Ω/km; 0.34 mm ² - ≤56 Ω/km; 0.50 mm ² - ≤39 Ω/km; 0.75 mm ² - ≤26Ω/km; 1.00 mm ² - ≤19.5 Ω/km; 1.50 mm ² - ≤13.3 Ω/km; 2.50 mm ² - ≤7.98 Ω/km
Insulation Resistance	>200 M.Ωxkm
Capacitance (@800Hz)	Core - Core: 0.14 mm ² -≤80 nF/km; 0.22 mm ² ..0.34 mm ² -≤100 nF/km; 0.50 mm ² ..0.75 mm ² -≤110 nF/km; 1.00 mm ² ..1.50 mm ² -≤120nF/km; 2.50 mm ² - ≤140 nF/km
Inductance (approx.)	0.65 mH/km
Temperature Range	Fixed: -30 °C+70 °C, Flexible: -5 °C+70 °C
Flame Retardancy	IEC/EN 60332-1
Smoke Density	IEC/EN 61034-2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min. Bending Radius	Fixed: 8 x Cable Diameter, Flexible: 15 x Cable Diameter

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