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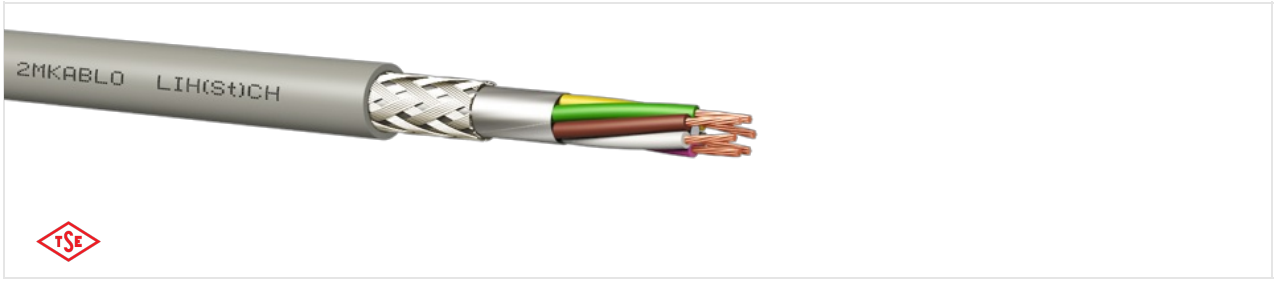

Areas of Use

These double screened and HFFR cables are used as signal transmission cables in industrial applications. 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. These used for indoor applications. Screening protects the cable from the outer electrical effects. Because of the HFFR material, These don't burn easily and when These do, the flames go off by themselves. These have low smoke density and These don't emit poisonous and corrosive gases during the fire. These used in buildings where there are important goods or human population.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 5, 0.34 mm²: 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
1. Screen	Al-PET Foil
2. Screen	Tinned Copper Wire Braid
Outer Sheath	HFFR (EN 50290-2-27), RAL 7001 - Grey
Reference Standards	VDE 0812, TS 13755

Technical Properties

Operating Voltage	0.14 mm²..0.25 mm² 250 V; 0.34 mm²..1.50 mm² 300 V / 500 V
Test Voltage	0.14 mm²..25 mm² 1200 V; 0.34 mm²..10 mm² 1500 V; 1.50 mm²..... 2500 V
Conductor Resistance	0.14 mm²- ≤138 Ω/km; 0.22 mm²- ≤85 Ω/km; 0.25 mm²- ≤77.8 Ω/km;0.34 mm²- ≤56 Ω/km; 0.50 mm²- ≤39 Ω/km; 0.75 mm²- ≤26 Ω/km; 1.00 mm²- ≤19.5 Ω/km; 1.50 mm²- ≤13.3 Ω/km
Insulation Resistance	>200 M.Ωxkm
Capacitance (@800Hz)	Core - Core: 0.14 mm²-≤80 nF/km; 0.22 mm²..0.34 mm²-≤100 nF/km; 0.50 mm²..0.75 mm²-≤110 nF/km; 1.00 mm²..1.50 mm²-≤120nF/km; 2.50 mm²- ≤140 nF/km Core-Screen: 0.14 mm²-≤120 nF/km; 0.22 mm²..0.34 mm²-≤150 nF/km; 0.50 mm²..0.75 mm²-≤170 nF/km; 1.00 mm²..1.50 mm²-≤180nF/km; 2.50 mm²- ≤240 nF/km
Indutance (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

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
2x0.5	5.0	15	37
3x0.5	5.3	20	45
4x0.5	5.7	25	55
5x0.5	6.3	30	70
6x0.5	6.9	35	82
7x0.5	6.9	40	85
8x0.5	7.5	45	102
9x0.5	8.1	50	115
10x0.5	8.9	56	125
2x0.75	5.6	20	46
3x0.75	5.8	27	56
4x0.75	6.4	35	71
5x0.75	7.0	42	91
6x0.75	7.7	50	106
7x0.75	7.7	56	111
8x0.75	8.4	64	132
9x0.75	9.1	71	149
10x0.75	10.0	79	162
2x1	5.8	25	53
3x1	6.2	34	67
4x1	6.8	44	84
5x1	7.5	54	108
6x1	8.2	63	127
7x1	8.2	72	133
8x1	9.0	82	158
9x1	9.7	91	178
10x1	10.6	102	194
2x1.5	7.0	35	75
3x1.5	7.4	49	96
4x1.5	8.1	63	121
5x1.5	9.0	77	155
6x1.5	9.8	91	182
7x1.5	9.8	104	192
8x1.5	10.7	119	228
9x1.5	11.6	133	256
10x1.5	12.8	148	282

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