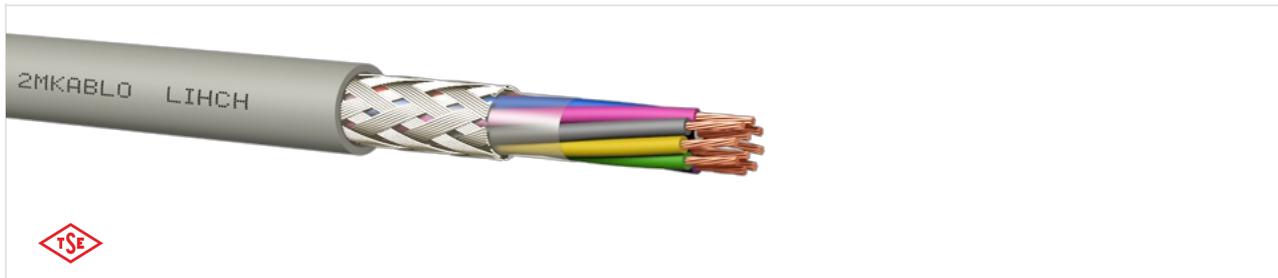


LIHCH



Areas of Use

These screened cables are used as signal transmission cables for indoor applications. These can be easily used with their flexible construction in narrow applications like electronic control systems of computer or audio systems or communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. Screening protects the cable from the outer electrical effects. These cables have HFFR material in their construction and These don't burn easily and if 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 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 |
| Separator | PET Foil |
| Screen | Tinned Copper Wire Braid |
| 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 - 800 V; 0.22 mm ²1.00 mm ² - 1200 V; 1.50 mm ² 2.50 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 Core-Screen: 0.14 mm ² -≤120 nF/km; 0.22 mm ² ..0.34 mm ² -≤150 nF/km; 0.50 mm ² ..0.75 mm ² -≤170 nF/km; 1.00 mm ² ..1.50 mm ² -≤180nF/km; 2.50 mm ² - ≤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/mm ²) | Cable Diameter (mm) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|--|----------------------------|-------------------------|--------------------------|
| 2x0.5 | 5.0 | 16 | 38 |
| 3x0.5 | 5.2 | 21 | 46 |
| 4x0.5 | 5.7 | 27 | 56 |
| 5x0.5 | 6.3 | 32 | 71 |
| 6x0.5 | 6.9 | 37 | 84 |
| 7x0.5 | 6.9 | 42 | 87 |
| 8x0.5 | 7.5 | 47 | 103 |
| 9x0.5 | 8.1 | 52 | 117 |
| 10x0.5 | 8.9 | 58 | 127 |
| 12x0.5 | 9.1 | 67 | 143 |
| 14x0.5 | 9.6 | 77 | 167 |
| 16x0.5 | 10.1 | 87 | 185 |
| 18x0.5 | 10.7 | 96 | 203 |
| 20x0.5 | 11.4 | 107 | 225 |
| 25x0.5 | 12.7 | 130 | 278 |
| 2x0.75 | 5.6 | 22 | 48 |
| 3x0.75 | 5.8 | 29 | 58 |
| 4x0.75 | 6.4 | 36 | 72 |
| 5x0.75 | 7.0 | 44 | 92 |
| 6x0.75 | 7.7 | 52 | 108 |
| 7x0.75 | 7.7 | 58 | 113 |
| 8x0.75 | 8.4 | 66 | 134 |
| 9x0.75 | 9.1 | 74 | 151 |
| 10x0.75 | 10.0 | 82 | 165 |
| 12x0.75 | 10.4 | 96 | 190 |
| 14x0.75 | 10.9 | 110 | 218 |
| 16x0.75 | 11.5 | 124 | 246 |
| 18x0.75 | 12.3 | 138 | 273 |
| 20x0.75 | 12.9 | 152 | 298 |
| 25x0.75 | 14.4 | 188 | 367 |
| 2x1 | 5.8 | 27 | 54 |
| 3x1 | 6.2 | 36 | 68 |
| 4x1 | 6.8 | 46 | 86 |
| 5x1 | 7.5 | 56 | 110 |
| 6x1 | 8.2 | 66 | 129 |
| 7x1 | 8.2 | 74 | 135 |
| 8x1 | 8.9 | 84 | 160 |
| 9x1 | 9.7 | 94 | 180 |
| 10x1 | 10.6 | 105 | 197 |
| 12x1 | 10.9 | 123 | 223 |
| 14x1 | 11.5 | 141 | 261 |
| 16x1 | 12.3 | 160 | 298 |
| 18x1 | 12.9 | 179 | 323 |

| | | | |
|--------|------|-----|-----|
| 20x1 | 13.7 | 197 | 357 |
| 25x1 | 15.3 | 244 | 441 |
| 2x1.5 | 7.0 | 37 | 77 |
| 3x1.5 | 7.3 | 51 | 95 |
| 4x1.5 | 8.1 | 65 | 123 |
| 5x1.5 | 9.0 | 80 | 158 |
| 6x1.5 | 9.8 | 95 | 185 |
| 7x1.5 | 9.8 | 108 | 195 |
| 8x1.5 | 10.7 | 122 | 231 |
| 9x1.5 | 11.6 | 137 | 259 |
| 10x1.5 | 12.8 | 152 | 285 |
| 12x1.5 | 13.3 | 179 | 330 |
| 14x1.5 | 13.9 | 206 | 381 |
| 16x1.5 | 14.7 | 233 | 429 |
| 18x1.5 | 15.6 | 261 | 469 |
| 20x1.5 | 16.6 | 295 | 525 |
| 25x1.5 | 18.5 | 364 | 647 |
| 2x2.5 | 8.1 | 56 | 108 |
| 3x2.5 | 8.5 | 79 | 137 |
| 4x2.5 | 9.3 | 102 | 173 |
| 5x2.5 | 10.4 | 126 | 226 |
| 6x2.5 | 11.4 | 150 | 265 |
| 7x2.5 | 11.4 | 171 | 282 |
| 8x2.5 | 12.5 | 195 | 337 |
| 9x2.5 | 13.6 | 218 | 378 |
| 10x2.5 | 14.8 | 242 | 410 |
| 12x2.5 | 15.4 | 287 | 476 |
| 14x2.5 | 16.3 | 337 | 563 |
| 16x2.5 | 17.3 | 383 | 634 |
| 18x2.5 | 18.3 | 428 | 694 |
| 20x2.5 | 19.4 | 484 | 779 |

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