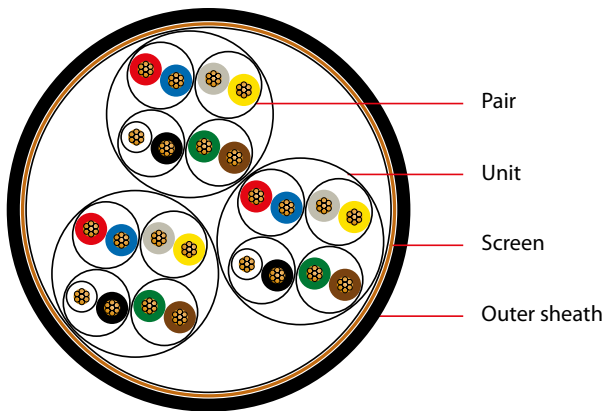


A-LIHCH Bd Si mtp*

in resemblance to DIN VDE 0815

* capable of maxi-termi-point



APPLICATION

This halogen-free, flame-resistant cable is used where increased fire protection of persons, material goods and buildings is required. It serves for signal transmission in communication systems with fixed installation. Not approved for power installation. Due to water absorption the cable should only be laid directly in earth or water if a protective conduit is used.

CONSTRUCTION

Conductor: copper, solid, bare; $7 \times 0.3 \text{ mm} = 0.5 \text{ mm}^2$ ($\varnothing 0.9 \text{ mm}$)

Core insulation: halogen-free compound

Core stranding: 2 cores to pair, 4 pairs to unit, units in layers; 2 x 2 as star quad

Lapping: plastic foil

Screen: tinned copper wire braid ($\varnothing 0.2 \text{ mm}$)

Outer sheath: halogen-free compound; colour: black RAL 9005

BEHAVIOUR UNDER FIRE CONDITIONS

Zero halogen, non corrosive gases: IEC 60754-2, DIN EN 50267

Flame retardant: IEC 60332-1-2, DIN EN 60332-1-2

Fire retardant: IEC 60332-3-22 / 24, DIN EN 60332-3-22 / 24

Smoke density: IEC 61034, DIN EN 61034

| Dimension | Sheath thickness approx. mm | Diameter approx. mm | Cable weight approx. kg/km | Copper index kg/km |
|--------------|-----------------------------|---------------------|----------------------------|--------------------|
| 2 x 2 x 0.5 | 1.8 | 8.5 | 110 | 45 |
| 4 x 2 x 0.5 | 1.8 | 10.8 | 165 | 79 |
| 8 x 2 x 0.5 | 1.8 | 13.0 | 250 | 135 |
| 12 x 2 x 0.5 | 1.8 | 15.2 | 330 | 193 |
| 16 x 2 x 0.5 | 1.8 | 16.5 | 400 | 243 |
| 20 x 2 x 0.5 | 1.8 | 18.2 | 470 | 292 |
| 32 x 2 x 0.5 | 2.0 | 24.8 | 735 | 435 |
| 40 x 2 x 0.5 | 2.0 | 25.8 | 840 | 531 |

ELECTRICAL CHARACTERISTICS

| | |
|-------------------------------------|---|
| (Conductor) loop resistance max. | 78.4 Ω /km |
| Insulation resistance min. | 100 M Ω x km |
| Mutual capacitance (800 Hz) max. | 120 nF/km 2 and 4 pair cable plus 20% permitted 1 pair 180nF/km |
| Capacitance unbalance (800 Hz) max. | 200 pF/100m 20% of values, min. one value max. 400 pF |
| Test voltage core-core | 500 V 50 Hz 1 min |
| Test voltage core-screen | 2000 V 50 Hz 1 min |
| Peak operating voltage | 225 V |

THERMAL & MECHANICAL PROPERTIES

| | |
|---------------------------------------|----------------|
| Temperature range during installation | -5°C to +50°C |
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7.5 x diameter |

Subject to changes due to technical progress and error



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