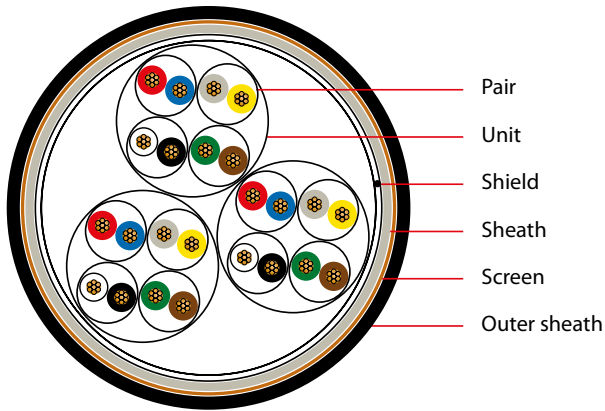


A-LIH(St)HCH Bd Si mtp* Fca

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 strand, 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

Shield: tinned drain wire ($\varnothing 0.8 \text{ mm}$); plastic-laminated aluminium foil

Sheath: halogen-free compound

Screen: tinned copper wire braid ($\varnothing 0.2 \text{ mm}$); optical coverage approx. 80 %

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 60332-3-24, DIN EN 60332-3-24

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	11.0	170	64
4 x 2 x 0.5	1.8	13.1	239	97
8 x 2 x 0.5	1.8	16.9	365	161
12 x 2 x 0.5	1.8	18.0	450	211
20 x 2 x 0.5	1.8	21.0	592	308
40 x 2 x 0.5	2.0	29.3	1100	572

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 moved	-5°C to +50°C
Temperature range static	-30°C to +70°C
Minimum bending radius	10 x diameter

Subject to changes due to technical progress and error

