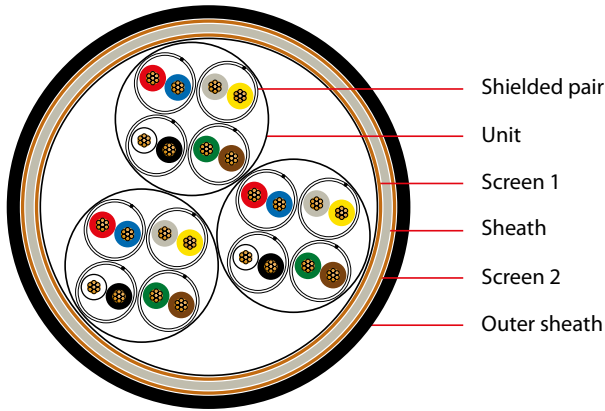


# A-LIHCHCH PimF Bd Si mtp\* Fca

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

**Shielded pairs:** each pair one layer plastic tape;

drain wire: tinned copper strand  $7 \times 0.16 \text{ mm}$ ;

one layer plastic laminated aluminium foil

**Core stranding:** 2 cores to pair, 4 pairs to unit, units in layers;

2 x 2 as star quad

**Lapping:** plastic foil

**Screen 1:** tinned copper wire braid ( $\varnothing 0.2 \text{ mm}$ )

**Sheath:** halogen-free compound

**Screen 2:** 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	13.5	265	110
4 x 2 x 0.5	1.8	13.9	305	137
8 x 2 x 0.5	1.8	18.5	495	240
12 x 2 x 0.5	1.8	19.3	580	288
16 x 2 x 0.5	1.8	20.7	675	349
20 x 2 x 0.5	1.8	22.6	795	425
32 x 2 x 0.5	2.0	26.5	1100	592
40 x 2 x 0.5	2.0	31.0	1370	729

## ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	78.4 $\Omega$ /km
Insulation resistance min.	100 M $\Omega$ x km
Mutual capacitance (800 Hz) max.	180 nF/km
Capacitance unbalance (800 Hz) max.	200 pF/100m
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	10 x diameter

Subject to changes due to technical progress and error



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