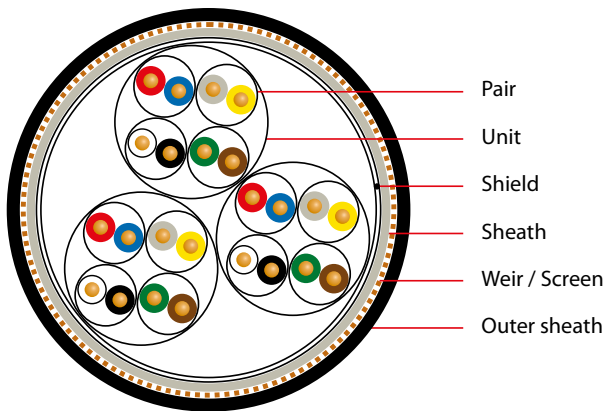


# AJ-H(St)HDH Bd Si Cu3.5 mtp\*

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 (Ø 0.8 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 (Ø 0.8 mm); plastic-laminated aluminium foil
- Sheath:** halogen-free compound
- Weir / Screen:** cross section 3.5 mm<sup>2</sup>; surrounded with 7 bare copper wires (Ø 0.08 mm); lapping with plastic foil
- 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 0.8	1.8	12.2	185	60
4 x 2 x 0.8	1.8	13.5	225	81
8 x 2 x 0.8	1.8	16.5	320	121
12 x 2 x 0.8	1.8	17.5	375	162
16 x 2 x 0.8	1.8	18.5	440	203
20 x 2 x 0.8	1.8	20.2	515	280
32 x 2 x 0.8	2.0	25.5	775	358
40 x 2 x 0.8	2.0	27.0	900	440

## ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	73.2 Ω/km
Insulation resistance min.	100 MΩ 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	10 x diameter

Subject to changes due to technical progress and error

