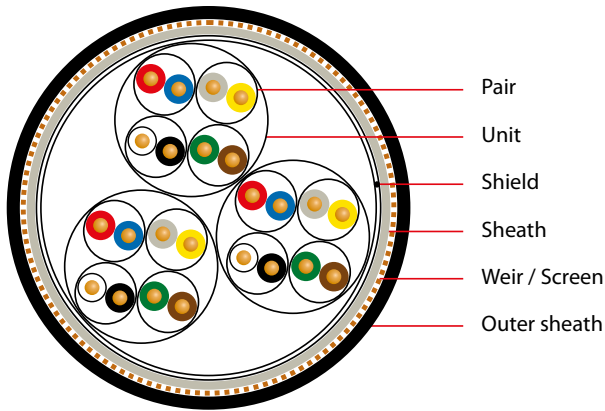


# AJ-H(St)HDH Bd Si Cu3.5 mtp\* Fca

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, 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 60332-3-24, 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 0.8  | 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<br>2 and 4 pair cable plus 20% permitted<br>1 pair 180nF/km |
| Capacitance unbalance (800 Hz) max. | 200 pF/100m<br>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

