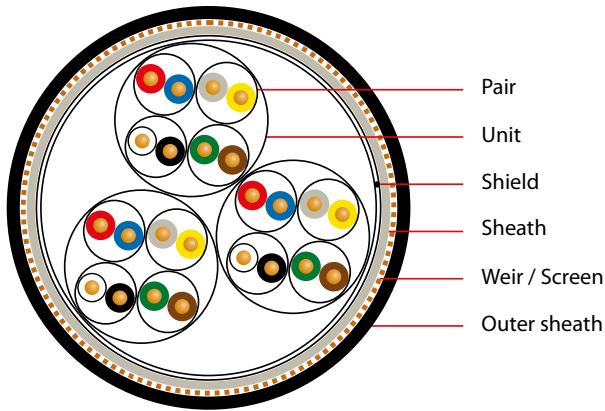


# AJ-Y(St)YDY Bd Si Cu16

in resemblance to DIN VDE 0815



## APPLICATION

For information transmission in dry and moist production sites, in and under plaster, as well as outdoors for fixed installation. Not approved for power installation, but appropriate for underground installation.

## CONSTRUCTION

**Conductor:** copper, solid, bare (Ø 0.8 mm)

**Core insulation:** PVC

**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:** PVC

**Weir / Screen:** cross section 16 mm<sup>2</sup>; surrounded with 16 bare copper wires (Ø 1.13 mm); lapping with plastic foil

**Outer sheath:** PVC; colour: black RAL 9005 or blue RAL 5015 uv-resistant

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	12.7	310	193
4 x 2 x 0.8	1.8	15.0	375	213
8 x 2 x 0.8	1.8	17.5	460	253
12 x 2 x 0.8	1.8	18.5	555	294
16 x 2 x 0.8	1.8	19.5	630	334
20 x 2 x 0.8	1.8	21.0	700	374
32 x 2 x 0.8	2.0	26.5	980	495
40 x 2 x 0.8	2.0	28.0	1100	575

## ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	73.2 Ω/km
Insulation resistance min.	100 MΩ x km
Mutual capacitance (800 Hz) max.	100 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

