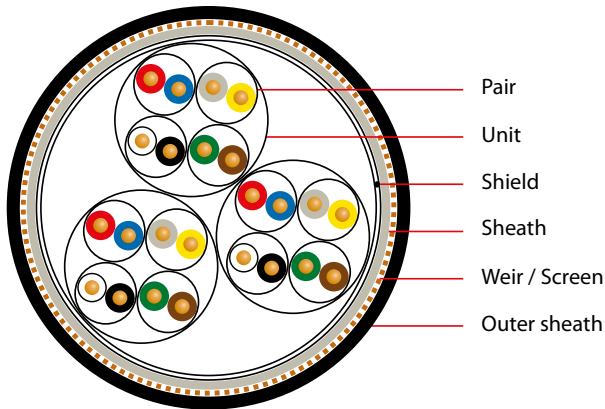


AJ-Y(St)YDYT-FR Bd Si Cu3.5

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 (\varnothing 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 (\varnothing 0.8 mm); plastic-laminated aluminium foil

Sheath: PVC

Weir / Screen: cross section 3.5 mm²; surrounded with 7 bare copper wires (\varnothing 0.8 mm); lapping with plastic foil

Outer sheath: PVC-FR; termite protected; colour: black RAL 9005

BEHAVIOUR UNDER FIRE CONDITIONS

Fire retardant: IEC 60332-3-24, DIN EN 60332-3-24

Low smoke and fume

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	175	60
4 x 2 x 0.8	1.8	13.5	225	81
8 x 2 x 0.8	1.8	16.5	315	121
12 x 2 x 0.8	1.8	17.0	365	162
16 x 2 x 0.8	1.8	18.0	430	203
20 x 2 x 0.8	1.8	20.0	510	280
32 x 2 x 0.8	2.0	25.0	770	358
40 x 2 x 0.8	2.0	26.5	880	440

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	73.2 Ω /km
Insulation resistance min.	100 M Ω 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
Attenuation at 0.8 kHz approx.	0.11 dB/100m
Attenuation at 10 kHz approx.	0.29 dB/100m
Characteristic impedance (800 Hz)	approx. 320 Ω

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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