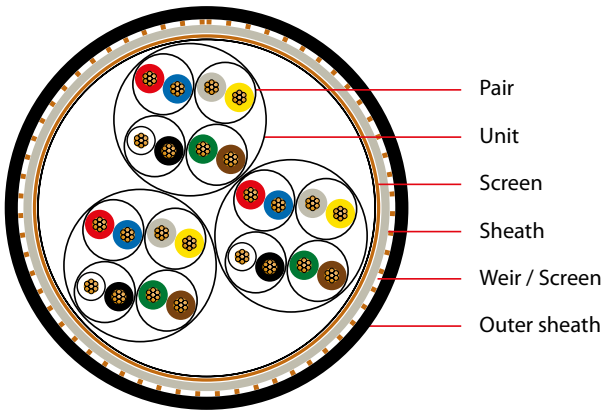
AJ-LIYCYDY-FR Bd Si Cu3.5 Fca

in resemblance to DIN VDE 0815



Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
1 x 2 x 0.5	1.8	12.0	180	79
2 x 2 x 0.5	1.8	13.0	200	84
4 x 2 x 0.5	1.8	15.0	240	121
8 x 2 x 0.5	1.8	18.0	365	178
12 x 2 x 0.5	1.8	18.5	425	232
16 x 2 x 0.5	1.8	20.5	510	283
20 x 2 x 0.5	1.8	22.0	580	333
32 x 2 x 0.5	2.0	27.0	870	478
40 x 2 x 0.5	2.0	28.5	1000	576

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 strand, bare; 7 x 0.3 mm = 0.5 mm² (Ø 0.9 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
Screen: tinned copper wire braid (Ø 0.2 mm);
optical coverage approx. 80 %
Sheath: PVC
Weir / Screen: cross section 3.5 mm²;
surrounded with 7 bare copper wires (Ø 0.08 mm);
lapping with plastic foil
Outer sheath: PVC-FR;
colour: black RAL 9005 or blue RAL 5015 uv-resistant

BEHAVIOUR UNDER FIRE CONDITIONS

Fire retardant: IEC 60332-3-24, DIN EN 60332-3-24
Low smoke and fume

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	78.4 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	15 x diameter

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