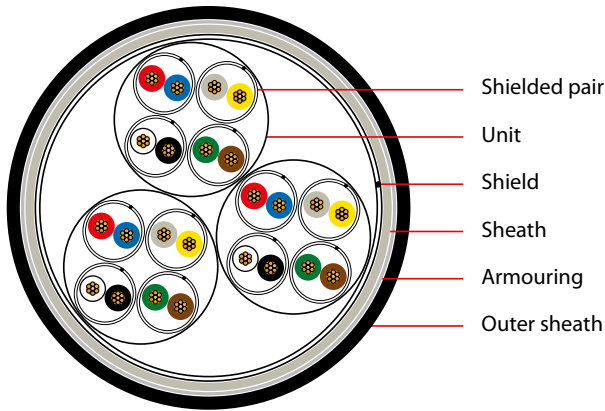


# A-LIY(St)YSY-FR PimF Bd Si Fca

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 strand, bare;  $7 \times 0.3 \text{ mm} = 0.5 \text{ mm}^2$  ( $\varnothing 0.9 \text{ mm}$ )

**Core insulation:** PVC

**Shielded pairs:** each pair one layer plastic tape;  
 drain wire: tinned copper strand  $7 \times 0.16 \text{ mm}$ ;  
 one layer plastic laminated aluminium foil

**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 ( $\varnothing 0.8 \text{ mm}$ ); plastic-laminated aluminium foil

**Sheath:** PVC

**Armouring:** galvanized steel wire braid ( $\varnothing 0.24 \text{ mm}$ );  
 optical coverage approx. 80 %

**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

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
2 x 2 x 0.5	1.8	13.0	215	28
4 x 2 x 0.5	1.8	13.6	260	50
8 x 2 x 0.5	1.8	18.7	422	96
12 x 2 x 0.5	1.8	19.6	500	141
16 x 2 x 0.5	1.8	21.0	575	186
20 x 2 x 0.5	1.8	22.6	700	233

## ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	78.4 $\Omega$ /km
Insulation resistance min.	100 M $\Omega$ x km
Mutual capacitance (800 Hz) max.	180 nF/km
Capacitance unbalance (800 Hz) max.	200 pF/100m 20% of values, min. one value max. 400 pF
Test voltage core-core	1000 V 50 Hz 2 min
Test voltage core-screen	2000 V 50 Hz 2 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

Subject to changes due to technical progress and error

