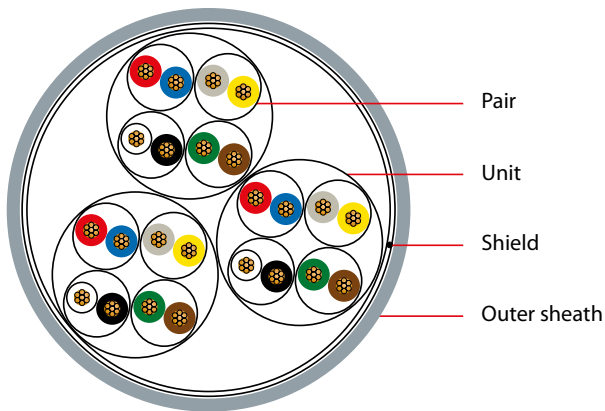


## RD-Y(St)Y Bd

construction and core identification  
in resemblance to DIN VDE 0815



### APPLICATION

As data transmission cable for transmission rates up to 10 kHz, mainly in power stations and other industrial plants.

### CONSTRUCTION

**Conductor:** copper strand, bare, flexible

0.5 mm<sup>2</sup>: strand 7 x 0.30 mm (Ø 0.9 mm)

1.0 mm<sup>2</sup>: strand 7 x 0.43 mm (Ø 1.3 mm)

**Core insulation:** PVC

**Core stranding:** 4 pairs to unit, units in layers

**Lapping:** plastic foil

**Shield:** tinned drain wire, 7 x 0.3 mm;

plastic-laminated aluminium foil

**Outer sheath:** PVC; colour: grey RAL 7000

### ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max. 0.5 mm<sup>2</sup> 78.4 Ω/km

(Conductor) loop resistance max. 1.0 mm<sup>2</sup> 36.8 Ω/km

Insulation resistance min. 100 MΩ x km

Char. impedance (10 kHz) 0.5 mm<sup>2</sup> 130 Ω

Char. impedance (10 kHz) 1.0 mm<sup>2</sup> 100 Ω

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

Crosstalk attenuation (10 kHz) min. 60 dB/500m

Cable attenuation(10 kHz) 0.5 mm<sup>2</sup> 2.8 dB/km

Cable attenuation(10 kHz) 1.0 mm<sup>2</sup> 1.2 dB/km

Test voltage core-core 2000 V 50 Hz 2 min

Test voltage core-screen 2000 V 50 Hz 2 min

Peak operating voltage 600 V

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
2 x 2 x 0.5	1.0	6.8	58	25
4 x 2 x 0.5	1.0	8.7	93	45
8 x 2 x 0.5	1.0	11.0	155	85
12 x 2 x 0.5	1.0	12.5	210	125
16 x 2 x 0.5	1.2	14.0	275	165
20 x 2 x 0.5	1.2	15.0	330	205
24 x 2 x 0.5	1.2	16.3	385	245
32 x 2 x 0.5	1.4	20.0	525	325
40 x 2 x 0.5	1.4	21.5	630	405
48 x 2 x 0.5	1.4	22.5	730	485
80 x 2 x 0.5	1.8	30.8	1230	805
96 x 2 x 0.5	1.8	32.0	1430	965
2 x 2 x 1.0	1.0	7.8	90	51
4 x 2 x 1.0	1.0	10.6	155	91
8 x 2 x 1.0	1.2	14.6	290	171
12 x 2 x 1.0	1.2	15.5	390	252
16 x 2 x 1.0	1.4	19.6	515	332
20 x 2 x 1.0	1.4	20.4	625	413
24 x 2 x 1.0	1.4	23.6	740	493
32 x 2 x 1.0	1.6	28.4	995	654
40 x 2 x 1.0	1.6	31.5	1240	816
48 x 2 x 1.0	1.6	31.8	1430	977
60 x 2 x 1.0	1.8	34.7	1750	1617

### THERMAL & MECHANICAL PROPERTIES

Temperature range during installation -5°C to +50°C

Temperature range stationary -30°C to +70°C

Minimum bending radius 7.5 x diameter

Subject to changes due to technical progress and error



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