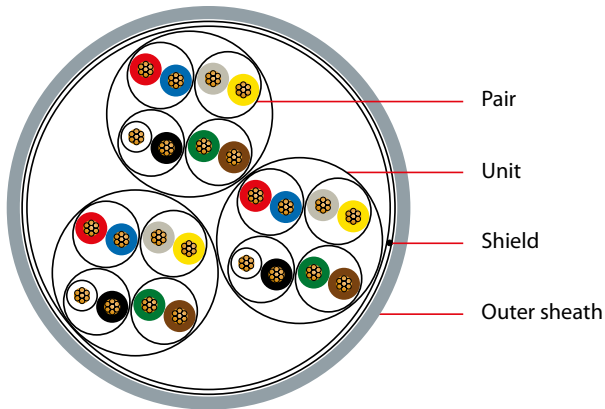


RD-Y(St)Y Bd Eca

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.

Usage: For strong power grid not allowed,
for underground laying not suitable, except solid laying

CONSTRUCTION

Conductor: copper strand, bare, flexible; 7 x 0.30 mm (Ø 0.9 mm)

Core insulation: PVC

Core stranding: 2 cores to pairs, 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.	78.4 Ω/km
Insulation resistance min. at 20°C	100 MΩ x km
Operating capacity (800 Hz) max.	100 nF/km
	120 nF/km (up to 4DA)
Capacitive coupling K1	200 pF/100m
	<small>20% of values, min. one value max. 400 pF</small>
Test voltage core-core	2000 V 50 Hz 1 min
Test voltage core-screen	2000 V 50 Hz 1 min
Peak operating voltage	600 V

BEHAVIOUR UNDER FIRE CONDITIONS

EN 50575; EN 60332-1-2; EN 13501-6 class Eca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
1 x 2 x 0.5	1.0	5.4	40	15
2 x 2 x 0.5	1.0	6.2	55	25
4 x 2 x 0.5	1.0	8.1	90	45
8 x 2 x 0.5	1.0	11.1	160	85
12 x 2 x 0.5	1.0	12.6	225	125
16 x 2 x 0.5	1.2	14.0	280	165
20 x 2 x 0.5	1.2	14.8	335	205
24 x 2 x 0.5	1.2	16.0	390	245
32 x 2 x 0.5	1.4	19.0	525	325
40 x 2 x 0.5	1.4	20.8	635	405
48 x 2 x 0.5	1.4	22.0	740	485
80 x 2 x 0.5	1.8	30.0	1240	805
96 x 2 x 0.5	1.8	31.5	1450	965

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	8 x diameter

Subject to changes due to technical progress and error

