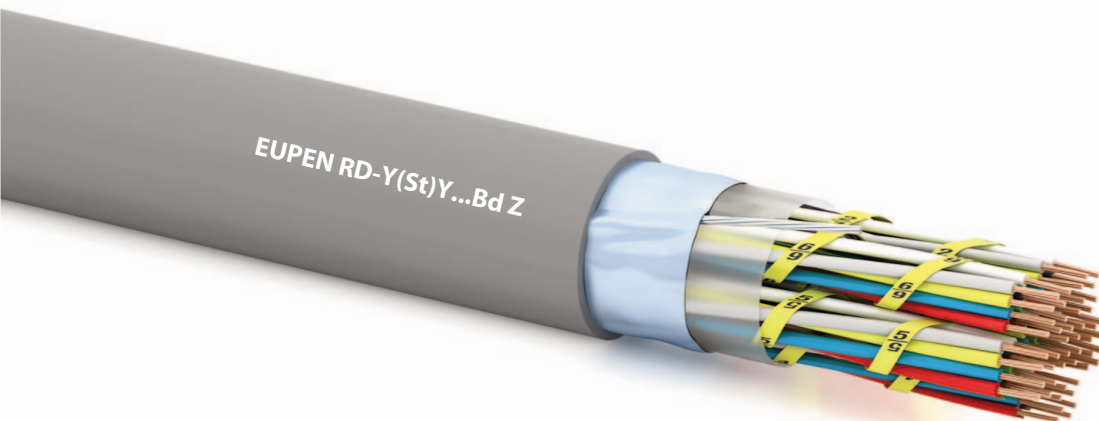
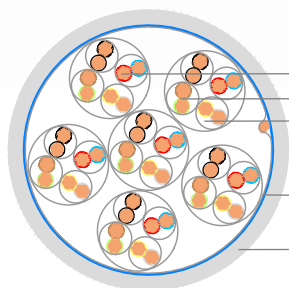


# RD-Y(St)Y...Bd Z

1/2

**PVC insulated**, overall screened, unarmoured, PVC sheathed control cable adapted to VDE 0815


## Construction



1. Conductors: bare stranded copper
2. Insulation: PVC
3. Cabling elements: pairs, color coding see pair identification  
Cabling elements assembled in bundles of 4 pairs (Bd)  
Bundles assembled in concentric layers
4. Overall screening: laminated Alu/PET tape (9µm Alu/12µm PET) in contact with a tinned copper drain wire 0,5 mm<sup>2</sup> (7x0,3mm)
5. Outer sheath: PVC  
Outer sheath color: Grey or blue or according to customer specification

## Pair identification

- Pair 1: ● ●  
 Pair 2: ● ●  
 Pair 3: ● ●  
 Pair 4: ○ ●

## Electrical Properties

Voltage rating (V)	600	
Conductor cross section (mm <sup>2</sup> )	0,5	
Conductor resistance in loop @ 20 °C (Ω/km)	73,6	
Capacitance core/core (nF/km)	≤100	(+20% for cables up to 4 pairs)
Capacitance unbalance between pairs @ 800 Hz. (pF/100m)	≤200	(20% for measured values or min. one value may be <400)
Test voltage core/core (V <sub>ac</sub> )	2000	
Test voltage core/screen (V <sub>ac</sub> )	2000	
Insulation resistance @ 20 °C (MΩ*km)	≥100	
Line attenuation @ 1 kHz (dB/km)	1,2	
@ 10 kHz (dB/km)	3,0	
Crosstalk attenuation @ 10 kHz/500m (dB)	≤ 60	
Characteristic impedance @ 1 kHz (Ω)	≅ 370	
@ 10 kHz (Ω)	≅ 130	

## Application conditions

Operating temperature	-30 °C to +70 °C
Laying temperature	-5 °C to +50 °C
Min. bending radius	7,5 x outer diameter

All information given is indicative only and not binding and can be subject to change without notice.



## RD-Y(St)Y...Bd Z

2/2

### Fire behaviour

Fire propagation

IEC 60332-1

### Application

Transmission of analog and digital signals up to 10 kHz for indoor and outdoor applications.  
Suitable for maxi termi point connection. Also available in **halogen-free version : RD-H(St)H.**

Number of pairs and size mm <sup>2</sup>	Thickness of the outer sheath mm	Overall diameter approx. mm	Weight of cable approx. kg/km
1 x 4 x 0,5	1,0	6,5	65
4 x 2 x 0,5	1,0	9,0	105
8 x 2 x 0,5	1,0	11,5	180
12 x 2 x 0,5	1,0	13,5	250
16 x 2 x 0,5	1,2	15,5	310
20 x 2 x 0,5	1,2	16,1	385
24 x 2 x 0,5	1,2	19,0	450
32 x 2 x 0,5	1,4	21,0	560
48 x 2 x 0,5	1,6	25,5	810
96 x 2 x 0,5	1,8	34,0	1570