



## RD-Y(ST)Y

Static screened data transmission cable for control technology



### Benefits

- In order to reduce costs, the multi-wire stranded copper cable has been provided for Maxi TERMI-POINT® connecting technology. This wiring method (semi-automatic) considerably reduces the time and the costs required for installation.
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

### Application range

- RD-Y(ST)Y is used as a data transmission cable for applications such as monitoring systems and control units
- Measurement, control and regulation technology and also in control rooms of power plants and industrial facilities.
- Suitable for transmission of analog and digital signals up to a frequency of about 10 kHz
- Designed for fixed installations in enclosed rooms.

### Product features

- Outer sheath colour: grey or blue for intrinsically safe systems
- Variant with 2 double cores twisted as star quad
- Flame retardant acc. to IEC 60332-1-2

### Norm references / Approvals

- Based on DIN VDE 0815

### Product Make-up

- 7-wire bare stranded copper conductor, core insulation made of PVC
- Cores twisted into pairs, 4 pairs twisted into a bundle, bundles in layers, bundles labelled using numbered foil
- Aluminium-laminated plastic foil static screen with tinned drain wire
- Outer sheath made of PVC
- Outer sheath colour: grey

### Technical data

**Classification**  
 ETIM 5.0 Class-ID: EC000829  
 ETIM 5.0 Class-Description: Signal-/telecommunications cable

**Core identification code**  
 Pair no. 1: a-conductor: blue  
 b-conductor: red  
 Pair no. 2: a-conductor: grey  
 b-conductor: yellow  
 Pair no. 3: a-core: green  
 b-core brown  
 Pair no. 4: a-core: white  
 b-core black

**Mutual capacitance**  
 At 800 Hz: ≤ 100 nF/km  
 The values may be exceeded by 20 % on cables with up to 4 double cores.

**Peak operating voltage**  
 (not for power applications) 225 V

**Conductor resistance**  
 (loop): ≤ 73.6 Ohm/km

**Cable attenuation/attenuation**  
 At 1 kHz: approx. 1.2 dB/km  
 At 10 kHz: approx. 2.8 dB/km

**Minimum bending radius**  
 Occasional flexing: 15 x outer diameter  
 Fixed installation: 7.5 x outer diameter

**Short-range crosstalk attenuation**  
 At 10 kHz and 500 m cable length:  
 min. 60 dB

**Test voltage**  
 C/C: 2000 V  
 C/S: 2000 V

**Characteristic impedance**  
 At 1 kHz: approx. 370 ohm  
 At 10 kHz: approx. 130 ohm

**Temperature range**  
 Occasional flexing: -5 °C to +50 °C  
 Fixed installation: -40 °C to +80 °C

Article number	Number of pairs and mm <sup>2</sup> per conductor	Number of bundles	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>RD-Y(ST)Y grey</b>					
0032470	2 x 2 x 0.5		6.5	25	65
0032471	4 x 2 x 0.5	1	9	45	110
0032472	8 x 2 x 0.5	2	11.5	85	180
0032474	16 x 2 x 0.5	4	15.5	165	310
0032475	24 x 2 x 0.5	6	19	245	450
0032477	48 x 2 x 0.5	12	25.5	485	810

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/ 100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 MAXI-TERMI-POINT® is a registered trademark of AMP  
 Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- STAR STRIP stripping tool refer to page 1000
- KS 20 cable shears refer to page 999
- KT cable shears refer to page 999