



## 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

	<b>Classification ETIM 5/6</b> ETIM 5.0/6.0 Class-ID: EC000104 ETIM 5.0/6.0 Class-Description: Control cable
	<b>Core identification code</b> 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
	<b>Mutual capacitance</b> At 800 Hz: ≤ 100 nF/km The values may be exceeded by 20 % on cables with up to 4 double cores.
	<b>Peak operating voltage</b> (not for power applications) 225 V
	<b>Conductor resistance</b> (loop): ≤ 73.6 Ω/km
	<b>Cable attenuation/attenuation</b> At 1 kHz: approx. 1.2 dB/km At 10 kHz: approx. 2.8 dB/km
	<b>Minimum bending radius</b> Occasional flexing: 15 x outer diameter Fixed installation: 7.5 x outer diameter
	<b>Short-range crosstalk attenuation</b> At 10 kHz and 500 m cable length: min. 60 dB
	<b>Test voltage</b> C/C: 2000 V C/S: 2000 V
	<b>Characteristic impedance</b> At 1 kHz: approx. 370 Ω At 10 kHz: approx. 130 Ω
	<b>Temperature range</b> Occasional flexing: -5°C to +50°C Fixed installation: -40°C to +80°C

Article number	Dimension and cross section in mm <sup>2</sup>	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 0.50		6.5	25	65
0032471	4 x 2 x 0.50	1	9	45	110
0032472	8 x 2 x 0.50	2	11.5	85	180
0032474	16 x 2 x 0.50	4	15.5	165	310
0032475	24 x 2 x 0.50	6	19	245	450
0032477	48 x 2 x 0.50	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 and graphics are not to scale and do not represent detailed images of the respective products.

### Accessories

- Cable shears with double edge refer to page 980
- Ratchet cutter refer to page 980
- STAR STRIP stripping tool refer to page 985
- KS 20 cable shears
- KT cable shears