# 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 mm² per conductor | Number of bundles | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|---|
| **RD-Y(ST)Y grey** | | | | | |
| 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
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