RD-Y(ST)Y

Static screened data transmission cable for control technology

RD-Y(ST)Y: PVC Process control data cable for, e.g., control stations/ units and monitoring systems, Maxi TERMI-POINT®, Paired stranding, Static screen foil



Interference signals

Benefits

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,

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PN 0456 / 02_03.16

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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:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control 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.
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

Note

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).
* Trade product, no Lapp product
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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RD-Y(ST)Y

PRODUCT INFORMATION

Article number	Dimension and cross section in mm2	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

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