

UNITRONIC® RE-2Y(ST)Yv

Instrumentation cable with reinforced outer sheath

RE-2Y(ST)Yv: PVC computer data cables, 7-wire Cu conductor, Low capacitance, Paired stranding, Screened/ Static Foil, PVC jacket, Black or blue, Flame retardant



Interference signals

Benefits

Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields

Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Low capacitance due to polyolefin-based insulation

Application range

In measurement and control engineering

Electrically intended for use when modern process computers have to process large volumes of data, e.g. high-capacity computer systems in waste incineration plants or sewage treatment plants

These cables are suitable for fixed installation in dry or damp rooms and, in case of versions with a black outer sheath, also for outdoor use

Thanks to reinforced, nominal/ minimum average wall thickness of the outer sheath of at least 1.8 mm, for applications, where a reinforced outer sheath may turn out to be advantageous.

Product features

Outer sheath colour:

black for outdoor applications or

blue for intrinsically safe systems

Flame-retardant according IEC 60332-1-2

Norm references / Approvals

In the style of EN 50288-7

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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Product Make-up

7-wire bare stranded copper conductor,
core insulation made of polyethylene (PE),
cores twisted into pairs,
pairs stranded in layers
Complete stranding contains 1 core for communication (core colour orange);
the communication core is omitted on single-pair versions
Foil wrapping,
static screening made of aluminium-laminated plastic film with tinned drain wire
Reinforced outer sheath made of PVC
Outer sheath colour: black (RAL 9005)
or blue (RAL 5015)

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:	a-core: black; b-core: white with consecutive numbers: 1-1, 2-2, 3-3, 4-4 etc. Three-way version: black, white, red
Mutual capacitance:	(guideline values at 800 Hz): C/C: 0.5 mm ² : max. 75 nF/km (guideline values at 800 Hz): C/C: 1.3 mm ² : max. 100 nF/km
Peak operating voltage:	(not for power applications) 300 V
Conductor resistance:	0.5 mm ² : max. 39.2 ohm/km 1.3 mm ² : max. 14.3 ohm/km
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 7.5 x outer diameter
Short-range crosstalk attenuation:	At 60 kHz: min. 0.88 dB/km
Test voltage:	Core/core: 2000 V Core/screen: 1000 V
Characteristic impedance:	approx. 100 ohms
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).

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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Article number	Dimension and cross section in mm ²	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
RE-2Y(ST)Yv				
0.5 mm² blue				
0032400	1.0 x 2.0 x 0.5	7.2	15	74
0032401	2.0 x 2.0 x 0.5	9.5	30	117
0.5 mm² black				
0032411	1.0 x 2.0 x 0.5	7.2	15	74
0032412	2.0 x 2.0 x 0.5	9.5	30	117
0032413	4.0 x 2.0 x 0.5	11.1	50	140
0032415	10.0 x 2.0 x 0.5	14.5	110	240
0032418	20.0 x 2.0 x 0.5	17.9	210	385
0032420	36.0 x 2.0 x 0.5	22.6	370	656
0032421	48.0 x 2.0 x 0.5	27.1	490	854
1.3 mm² blue				
0032422	1.0 x 2.0 x 1.3	8.6	31	102
0032423	2.0 x 2.0 x 1.3	11.5	62	161
0032424	4.0 x 2.0 x 1.3	13.8	114	230
0032428	24.0 x 2.0 x 1.3	27.5	684	952
1.3 mm² black				
0032430	1.0 x 2.0 x 1.3	8.6	31	102
0032431	2.0 x 2.0 x 1.3	11.5	62	161
0032432	4.0 x 2.0 x 1.3	13.8	114	230
0032433	8.0 x 2.0 x 1.3	16.9	218	377
0032434	12.0 x 2.0 x 1.3	19.3	322	520
0032436	24.0 x 2.0 x 1.3	27.5	684	952

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