0032400

DATA SHEET

valid from: 2021-02-12

UNITRONIC® RE-2Y(ST)Yv



Application

UNITRONIC® RE-2Y(ST)Yv computer cables are mainly used in measurement and control engineering. They are 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 the black jacketed versions, also for outdoor use. Thanks to reinforced, nominal/minimum average wall thickness of the outer sheath of at least 1.8 mm, the cables are suitable for applications, where a reinforced outer sheath may turn out to be advantageous.

Design

Design Design based on standard VDE 0812 and EN 50288-7

Certification EN 13501-6 and EN 50575 Classification of fire behaviour

(article/dimension range see www.lappkabel.com/cpr)

Conductor 7-wire bare stranded copper conductor

Insulation PE-based compound

Core identification code a-core: black: b-core: white

with consecutive numbers 1-1, 2-2, 3-3, 4-4 etc.

cores twisted into pairs, pairs stranded in layers, Stranding

complete stranding contains 1 core for communication (0,5 mm²; core colour orange),

(in case of single pair construction: without orange communication core),

wrapping with foil on the outer layer

Screen static screen of aluminium-laminated plastic foil with multi-wired, tinned drain-wire

Outer sheath special PVC-based compound, flame retardant, reinforced

sheath colour: black (similar RAL 9005); blue (similar RAL 5015)

Electrical properties at 20 °C

Conductor resistance 0.5 mm²: max. 39.2 Ω/km

1.3 mm²: max. 14.3 Ω /km

Specific volume resistivity > 5 G Ω x km

C/C: 0.5 mm²: approx. 75 nF/km Mutual capacitance

C/C: 1.3 mm²: approx. 100 nF/km (reference values at 800 Hz)

Inductance max. 0.65 mH/km Characteristic impedance approx. 100Ω

Near-end cross-talk 0.5 mm²: min. 88 dB (60 kHz)

1.3 mm²: min. 102 dB (60 kHz)

300 V (not for power applications) Maximum operating voltage

Must not be connected to the mains supply voltage.

C/C 2000 V Test voltage

C/S 1000 V

Mechanical and thermal properties

Temperature range

Minimum bending radius occasional flexing: 15 x outer diameter

fixed installation: 7.5 x outer diameter occasional flexing: -5°C up to +50°C fixed installation: -40°C up to +80°C

Flammability flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

These cables are conform to General requirements

> EU-Directive 2014/35/EU (Low Voltage Directive) and to EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain

hazardous substances).

These cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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