



DATA SHEET	0032400
UNITRONIC® RE-2Y(ST)Yv	valid from : 01.08.2002

Application

UNITRONIC® RE-2Y(ST)Yv process control cable is used mainly for data transmission in the fields of control center, controlling systems and units. They are for use in dry, damp and wet rooms. Under following to the indicate temperature range the version with a black outer sheath can be used outside.

Technical Data

Conductor	Strands, 7-wires of plain copper acc. to VDE 0295 class 2
Core insulation	PE (2Y)
Core identification	a-core : black b-core: white with printing of numbers 1/1; 2/2 and so on
Stranding	2 cores twisted to pairs pairs together with an orange 7-wire communication core twisted to a unit (0,5 mm ²) plastic foil, static screen of Aluminium laminated plastic foil with multi-wired, tinned drain-wire
Outer sheath	PVC compound in acc. to VDE 0816 part 1, flame retardant, reinforced sheath color : black (similar RAL 9005), blue (similar RAL 5015)
Peak working voltage	max. 300 V (not for purposes of power/high-voltage current)
Test voltage	C/C 2000V C/S 1000V
Temperature range	static -40°C up to +70° C flexible -5°C up to +50°C
Minimum bending radius	static 7,5 x cable diameter
Flame propagation	acc. to IEC 60332.1 resp. VDE 0482 part 265-2-1. / IEC 60 332.1

Electrical properties at 20°C

Conductor resistance	0,5 mm ² : max. 39,2 Ω/km 1,3 mm ² : max. 14,2 Ω/km
Insulations resistance	min. 5 GΩ x km
Mutual capacitance at 800 Hz (approximate value)	core/core 0,5 mm ² 60 nF/km at 1 and 2 pairs 75 nF/km core/core 1,3 mm ² 75 nF/km at 1 and 2 pairs 100 nF/km
Characteristic inductance	max. 0,75 mH/km
Near-end cross-talk attenuation at 60 kHz:	min. 88dB

elaborated by: TE-K:	Document: DB0032400_2EN	page 1 of 1
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