



<b>DATA SHEET</b>	0032438
<b>UNITRONIC® RE-2Y (St) Yv PiMF</b>	valid from : 01.03.2004

## Application

RE-2Y (St) Yv PiMF instrumentation cables are used wherever computers have to process large amounts of data. The cables are suitable for use in dry and damp rooms, the black version also for outdoor use and direct burial.

## Design

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 number marking 1/1; 2/2 etc.
Stranding	2 cores twisted into a pair, plastic foil, static screen of aluminium laminated plastic foil with solid bare drain-wire, PiMF identification by numbered plastic foil, pairs and one core for communication (0,5mm <sup>2</sup> ) in layers, common plastic foil and static screen of aluminium laminated plastic foil with tinned drain multi-wire
Outer sheath	PVC compound acc. to VDE 0816, reinforced and flame retardant sheath colours: black, blue

## Electrical properties at 20°C

Peak working voltage		max. 300V (not for purposes of power/high-voltage current)
Test voltage	C/C C/S	2000V 1000V
Conductor resistance:		0, 5 mm <sup>2</sup> : max. 39,2 Ω/km 1, 3 mm <sup>2</sup> : max. 14.2 Ω/km
Insulation resistance:		min. 5 GΩ x km
Mutual capacitance at 800 Hz		core/core: 0, 5 mm <sup>2</sup> 60 nF/Km 1- and 2 paired version    75 nF/Km core/core 1, 3 mm <sup>2</sup> 75 nF/Km 1- and 2 paired version    100 nF/Km
Inductance:		max. 0, 75 mH/Km
Near-end crosstalk attenuation at 60 kHz:		min. 1, 02 dB

## Mechanical and thermal properties

Temperature range	static -40° C up to +70° C flexing -5° C up to +50° C
Minimum bending radius	static: 7,5 x cable diameter
Flammability	acc. to IEC 60332.1 resp. VDE 0265-2-1

elaborated by: PD-KL: Frank Hörtnagl	Document: DB0032438_2EN	page 1 of 1
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