



ARCOCAVI

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Technical Data

**INSTRUMENTATION CABLES PE - PVC
PAIR-TWISTED - SHIELDED ON TOTAL
RE-2Y(ST)Y - UNSHIELDED PAIRS
RE-2Y(ST)Y PIMF- SHIELDED PAIRS**

Application

Instrumentation cables are used in data processing and process control.

The electrostatic shield protects the pairs against outer electrostatic fields.

Low level of line attenuations and low mutual capacitance enable long transmission distances and fast pulse acceleration.

For the RE-2Y(ST)Y PIMF the individual screening of the pairs guarantee high cross-talk attenuation.

Type of cable

Conductors sections:

mm² 0,50 - 1,3

Number of conductors: from 1 x 2 to 48 x 2

Constructional characteristics

Conductor stranding:

multistranded wires acc. column 2 of
VDE 0295 - IEC 228 - CEI 20-29

0,5 mm² = 7 x 0,3 mm - 1,3 mm² = 7 x 0,49

Primary insulation: polyethylene PE

Pairs identification: black / white with numbering 1 / 1 - 2 / 2, etc.

Pair wrapping: with special tape

Shield on pairs: plastic coated Al foil with
for RE-2Y(St)Y PIMF copper draining wire

Stranding:

pairs stranded in layers, plus one PE-insulated orange
communication core - 0,5 mm² (only if requested)

Taping: special tape

Shield on total: overall electrostatic screen (St) of
plastic coated metal foil with tinned copper draining wire

Jacket: reinforced PVC compound black or blue
RAL5015

Technical characteristics and ratings

Service voltage: 300 V

Test voltage: 2000 V

Insulation resistance: min. 100 Mohm x km (at 20°C)

Capacitance: 0,5 mm² 60 nF/km at (unshielded)

core / core 75 nF/km at (shielded)

800 Hz 1,3 mm² 75 nF/km at (unshielded)

100 nF/km at (shielded)

Service temperature: movable from -5°C to +70°C
static from -30°C to +80°C

Cross-talk attenuation: min. 0,9 dB / km at 60 Hz

Min. bending radius: 15 x ext. cable diameter