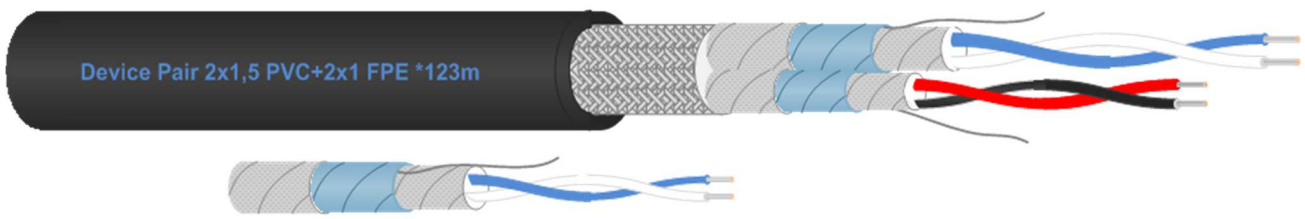
5. INDUSTRIAL CABLES / 5.2 PVC (PE) / Device Pair 2x1,5 mm² PVC+2x1 mm² FPE

Instrumentation cable



Galvanically isolated pairs

Application:

Signal cables designed to link procedural devices and control equipment with control system or security system, with galvanically isolated pairs. These are used for nominal voltage of 300 V for fixed installation both in normal and moist environments (STN 33 2000-5-51). They are UV stabilized, meet the requirements for use and installation in the free environment with UV light (Africa, Middle East, Latin America).

Cable construction:

- **Number of pairs:** 2
- **Cable cores:** CuSn conductor cl. 5
- **Nominal cross-section:** 1,0 mm^2 - 1,5 mm^2
- **Insulation:** 1,0 mm^2 - FPE; 1,5 mm^2 - PVC
- **Pairs:** galvanically isolated (PET tape + AlPET tape with CuSn wire 0,4 mm + PET tape)
- filler is placed above the coiled pairs
- **Shield construction:** braiding of CuSn wires of diameter 0,15 mm with a density of min. 65 % with CuSn stranded wire 1,0 mm^2
- **Sheath cable:** PVC
- **Colour of sheath:** black or other if required, stabilized against UV radiation

Technical data:

- **Nominal voltage Uo/U (V):** 300
- **Test voltage [kV]:** 2,5
- **Operating temperature:** -25 °C to +70 °C
- **Min. temperature for laying:** +5 °C
- **Min. bending radius:** 15 x cable diameter

Marking:

- **Color code:**

cross-section	**1,0 mm^2**	**blue, white**
cross-section	**1,5 mm^2**	**red, black**

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Aplication tables:

Effective resistance of conductor 1,5 mm^2	13,7 Ω/km
Effective resistance of conductor 1,0 mm^2	20,0 Ω/km
Effective resistance collective screen	10,0 Ω/km
Capacitance of pair (only 2x1,0mm^2) max.	42 nF/km
Impedance	120 Ω
Inductivity	0,7 mH/km
Current carrying capacity 2x1,0	5 A
Current carrying capacity 2x1,5	8 A

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