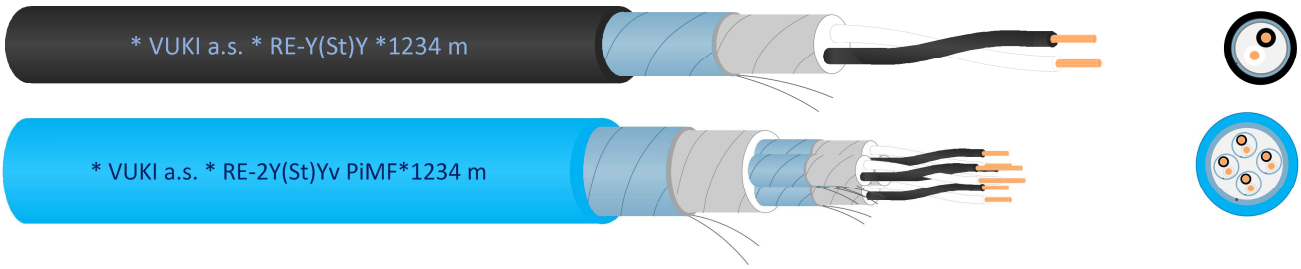
2. SIGNAL CABLES / 2.2 OTHER/ RE-Y(2Y)(St)Y (-Yw, -fl, Yv, -MP, PiMF) nx2(3)xm

Shielded paired PVC cables



Application:

Signal cables type RE-Y(2Y)(St)Y… are used for data processing and control process. They are used for fixed installation in normal and moist environments (STN 33 2000-5-51). Cables are UV stabilized (black sheath) and with resistant to flame propagation according to STN EN 60332-1.

Cable construction:

- **Cable cores:** Bare Cu stranded wires cl.2 (STN EN 60228), cross-section: 0,5mm^2; 0,75mm^2; 1,3 mm^2
- **Core insulation:** RE-Y... - PVC (STN EN 50290-2-21) RE-2Y... - PE
- Cores twisted to pairs or to triple
  Pairs (triples) stranded together in layer
  Type MP (MULTIPAIR) + 1 communication core 0,5 mm2 PE-insulated, orange
- **Shield:** PET foil + CuSn drain wire 0,5 mm2 + overall Al/PET foil
  PiMF version - pairs or triples with screen of Al coated foil with CuSn wire
- **Sheath:** Black or blue
- **Sheath material:** Y - PVC
  Typ w - PVC temperature resistance up to 105 °C
  Typ fl - flame retardant material
  Typ Yv - reinforced PVC sheath

Technical data:

- **Minimum bending radius:** 7,5 x ø cable
- **Operating voltage:** 300V (not for power purpose)
- **Test voltage:** Core / Core 2kV
  Core / shield 1kV
- **Operating temperature for fixed installation:** - 30 °C - +70 °C
  Type Yw: - 30 °C - +105°C
- **Minimal installation temperature :** - 5 °C
- **Maximum resistance per 1 km of cable at 20°:C:** 0,5mm2 - 36Ω
  0,75mm2 - 24,5Ω
  1,3mm2 - 14,2Ω
- **Max.capacitance of pair at 800 Hz:** 0,5 mm2 - 60pF/m *(75pF/m)
  0,75mm2 - 65pF/m *(110pF/m)
  1,3mm2 - 75pf/m *(100pF/m)
  *for 1 and 2 pairs + PiMF version
- **Inductance:** Max. 0,75 mH/km
- **Cross-talk attenuation :** Min. 0,88 dB/km pri 60Hz

Marking:

- Colour: a core - black
  b core - white
  c core - red
  1 core with numbering (for 1 pair and 1 triple construction not required)

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Application table:

No. of pairs x cross-section (mm^2)	Outer ø approx. (mm)	Weight approx. (kg)
1x2x0,5	7,3	70
2x2x0,5	9,8	117
4x2x0,5	11,5	135
8x2x0,5	13,4	200
1x2x0,75	7,7	78
2x2x0,75	10,5	130
4x2x0,75	11,8	170
8x2x0,75	14,5	265
1x2x1,3	8,5	105
2x2x1,3	11,7	161
4x2x1,3	13,3	230
8x2x1,3	16,5	375
12x2x1,3	21	588
16x2x1,3	23	690
1x3x1,3	**8,9**	**127**
2x3x1,3	12	177
4x3x1,3	**14,2**	**326**
6x3x1,3	16,9	443
8x3x1,3	**18,9**	**561**
1x2x1,3 PiMF	8,5	110
2x2x1,3 PiMF	12,4	182
4x2x1,3 PiMF	14,3	273
6x2x1,3 PiMF	17	366
8x2x1,3 PiMF	19	456
12x2x1,3 PiMF	22	642
16x2x1,3 PiMF	24,5	760
4x3x1,3 PiMF	**15,2**	**349**
8x3x1,3 PiMF	20,3	602

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