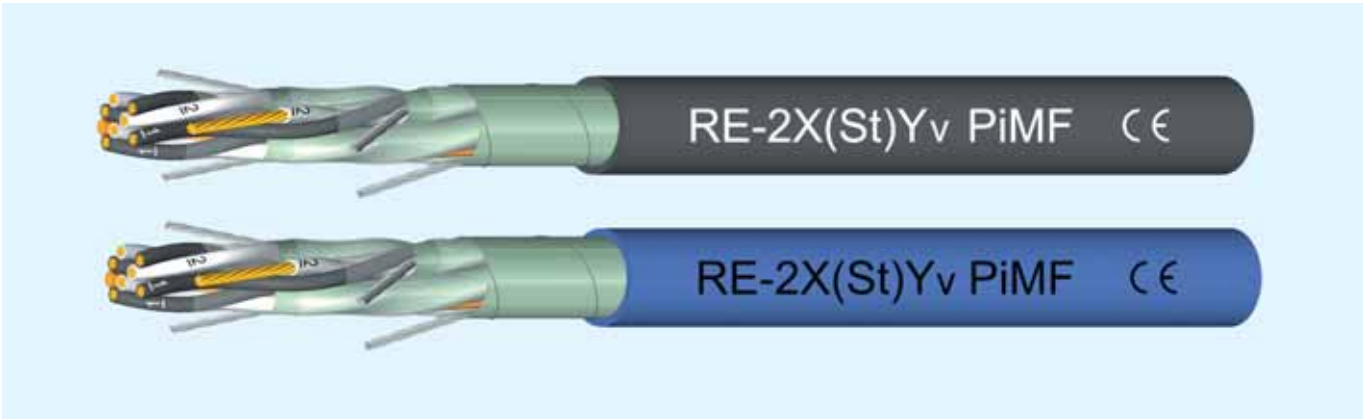
RE-2X(St)Yv PiMF

Instrumentation cables, pairs screened, according to EN 50288–7 **90 °C/300 V**



Cable structure

- Stranded bare copper core 0,5 mm² (7×0,31 mm), 0,75 mm² (7×0,37 mm), 1,3 mm² (7×0,49 mm)
- Cross-linked PE core insulation
- Color coded cores with numbering, pair: a-core black, b-core white
- Cores twisted to pairs with optimal lay lenght
- PiMF – core wrapping with plastic foil, wrapping with plastic coated alu-foil with tinned Cu drain-wire ∅ 0,6 mm, wrapping with plastic foil
- Screened pairs stranded in layers with 1 communication core 0,5 mm² with XLPE insulation, orange, (communication core for multicore version), twisted pairs foil wrapped
- Electrostatic screen of plastic coated aluminium foil with tinned drain-wire 0,5 mm² (7×0,3 mm)
- Outer sheath of special PVC according to DIN VDE 0207 part 5, reinforced
- Self-extinguishing and flame retardant PVC according to IEC 60332-1-2, IEC 60332-3-24 (Cat. C), color black or blue for hazardous areas with the possibility of explosion or fire -i- (= intrinsically safe)
- Suitable for intrinsically safe systems in zone 1+2 group II according to IEC 60079-14

Technical data

- **Conductor resistance** 0,5 mm² max. 36,8 Ω/km
  0,75 mm² max. 24,6 Ω/km
  1,3 mm² max. 14,2 Ω/km
- **Temperature range** flexing from -5 °C to +50 °C
  fixed from -30 °C to +90 °C
- **Nominal voltage** max. 300 V
- **Test voltage a.c.** core/core 2000 V
  core/screen 1000 V
- **Insulation resistance** min. 5 GΩ/km
- **Mutual capacitance** at 800 Hz core/core
  0,5 mm² = 70 nF/km
  0,75 mm² = 80 nF/km
  1,3 mm² 100 nF/km
- **Inductance** max. 0,70 mH/km
- **Cross talk attenuation** at 60 kHz min. 1,02 dB/km
- **Minimum bending radius** approx. 7,5× cable diameter

Application

These instrumentation cables are used in data processing and process control. Electrostatic screening protects the screened pairs against outer electrostatic interference. Low level of line attenuations and low mutual capacitances enable long transimission distances and fast pulse acceleration. These data cables are ideal for fixed installation in wet areas as well as for direct burrial into earth (only for RE-2X(St)Yv). Black outer sheath version is UV resistant. Version with blue outer sheath for intrinsically safe installation.

Note:

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC
Technical changes reserved.
Low temperature version on request.
500 V version on request.
Conforms to RoHS.

Part No. black sheath	Part No. blue sheath	No. of pairs x core cross-section [mm²]	Approx. outer ∅ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0320115	0321537	2×2×0,5	8,9	35	128
0320116	0321538	4×2×0,5	10,2	60	170
0321535	0321539	6×2×0,5	11,8	82	215
0320117	0321540	8×2×0,5	13,1	121	246
0320118	0321541	10×2×0,5	14,1	136	261
0320119	0321542	12×2×0,5	15,8	161	351
0320120	0321543	16×2×0,5	18,0	212	430
0320121	0321544	20×2×0,5	19,6	262	496
0320122	0321545	24×2×0,5	21,8	313	604
0320123	0321546	36×2×0,5	26,9	465	850
0320124	0321547	48×2×0,5	32,2	616	1115
03201151	03215371	2×2×0,75	9,7	43	101

Part No. black sheath	Part No. blue sheath	No. of pairs x core cross-section [mm²]	Approx. outer ∅ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
03201161	03215381	4×2×0,75	11,4	82	152
03201171	03215401	8×2×0,75	14,7	160	271
03201191	03215421	12×2×0,75	17,6	237	379
03201201	03215431	16×2×0,75	20,0	315	496
03201221	03215451	24×2×0,75	24,4	470	716
0320133	0321548	2×2×1,3	12,7	68	184
0320134	0321549	4×2×1,3	15,2	124	269
0320135	0321551	8×2×1,3	18,8	239	442
0320136	0321552	12×2×1,3	21,4	353	593
0320137	0321553	16×2×1,3	24,7	468	789
0320138	0321554	24×2×1,3	29,4	697	1104
0321535	0321536	6×3×1,3	18,0	282	334