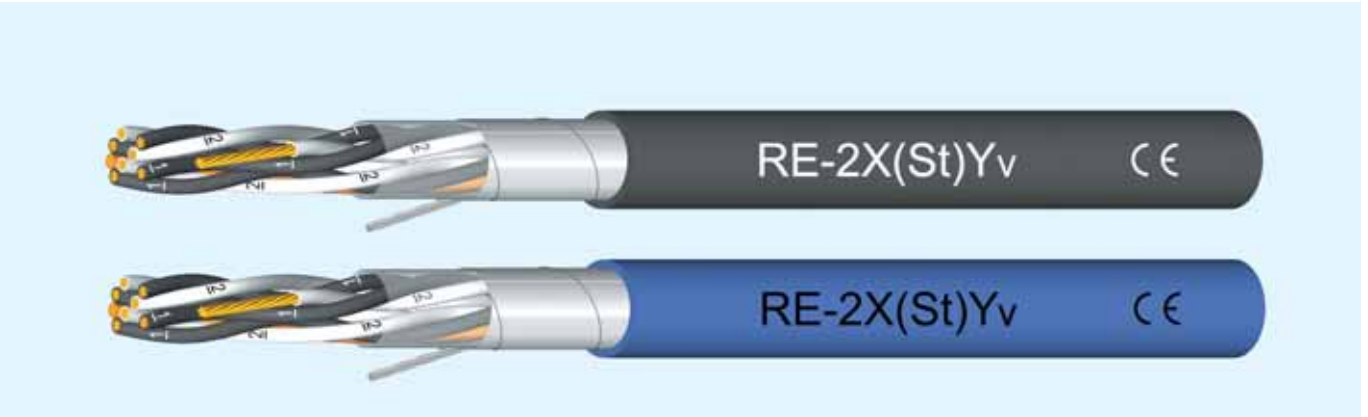


RE-2X(St)Yv

Instrumentation cables, screened, according to EN 50288-7

90 °C/300 V



03

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 insulation of core – XLPE
- Color coded cores with numbering, pair: a-core black, b-core white
- Cores twisted to pairs with optimal lay length
- Pairs stranded in layers with 1 communication core 0,5 mm² with XLPE insulation, orange, (communication core for multicore version)
- Core wrapping with foil
- 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
min. 5 GΩ/km
- **Insulation resistance** core/core 0,5 mm² 50 nF/km
core/core 0,75 mm² 60 nF/km
max. 0,70 mH/km
- **Mutual capacitance** at 800 Hz at 60 kHz min. 0,88 dB/km
- **Inductance** 7,5× cable diameter
- **Attenuation** at 800 Hz
- **Minimum bending radius**

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 transmission distances and fast pulse acceleration. These data cables are ideal for fixed installation in wet areas as well as for direct burial into earth. 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.
Cross-section 1,3 mm² on request.

Part No. black sheath	Part No. blue sheath	No. of pairs × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0320099	0320235	1×2×0,5	7,5	15,0	74
0320100	0320236	2×2×0,5	10,2	30,0	117
0320101	0320237	4×2×0,5	11,0	50,0	140
0320102	0320239	8×2×0,5	13,8	90,0	215
0320103	0320240	10×2×0,5	14,6	110,0	220
0320104	0320241	12×2×0,5	15,7	130,0	280
0320105	0320242	16×2×0,5	17,5	170,0	352
0320106	0320243	20×2×0,5	18,5	210,0	385
0320107	0320244	24×2×0,5	20,2	250,0	468
0320149	0320169	1×2×0,75	7,9	20,0	74
0320150	0320170	2×2×0,75	10,6	35,0	123
0320151	0320171	4×2×0,75	11,7	65,0	164
0320152	0320172	8×2×0,75	14,6	125,0	258
0320153	0320173	10×2×0,75	15,8	154,0	305

Part No. black sheath	Part No. blue sheath	No. of pairs × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0320154	0320174	12×2×0,75	17,0	185,0	350
0320155	0320175	16×2×0,75	19,0	245,0	445
0320156	0320176	20×2×0,75	21,5	298,0	520
0320157	0320177	24×2×0,75	23,2	365,0	620
0320125	0320247	1×2×1,3	8,6	34,0	102
0320126	0320248	2×2×1,3	12,0	62,0	161
0320127	0320249	4×2×1,3	13,6	114,0	230
0320128	0320251	8×2×1,3	16,9	218,0	377
0320129	0320252	12×2×1,3	19,9	322,0	515
0320130	0320253	16×2×1,3	22,4	426,0	656
0320131	0320254	24×2×1,3	26,6	684,0	952
0320132	0320255	1×3×1,3	8,9	44,0	116