

RE-2X(St)2YbY

Data cable, screened, armoured



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Cable structure

- Stranded bare copper core 0,5 mm² (7 × 0,31 mm), 0,75 mm² (7×0,37 mm)
- Cross-linked PE core insulation – XLPE
- White and black core with numbering, pair: a-core black, b-core white, with number print 1/1, 2/2, etc.
- Cores twisted to pairs with optimal lay length, pairs stranded in layers + 1 communication core 0,5 mm² with XLPE insulation, orange – for multicore versions
- Stranded cores wrapped with polyester foil
- Electrostatic screen of plastic coated aluminium foil with tinned drain-wire 0,5 mm² (7×0,31 mm)
- Wrapping with polyester foil + inner polyethylene sheath
- Armouring of flat or round galvanised wires with open pattern counterwound galvanise steel strip
- Sheath of special PVC compound according to DIN VDE 0207 part 5
- Self-extinguishing and flame resistant PVC according to IEC 60332-3 color black or blue for hazardous areas with the possibility of explosion or fire -i- (= intrinsically safe)

Technical data

- **Conductor resistance** 0,5 mm² max. 39,2 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 +70 °C
- **Nominal voltage** max. 300 V
- **Test voltage a.c.** core/core 2000 V
core/screen 1000 V
- **Insulation resistance** min. 5 GΩ × km
- **Inductance** max. 0,70 mH/km
- **Attenuation** at 800 Hz max. 0,9 dB/km, cross-talk at 60 kHz min. 70 dB/500 m
- **Minimum bending radius**
up to cable diameter 20 mm 7,5× cable diameter
up to cable diameter ≥ 20 mm 10× cable diameter

Application

Armoured data cables are used for data transfer up to 200 kbit/s in control and operating processes, where cables are exposed to high mechanical stress. 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.

Note:

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC.
Technical changes reserved.
Version PiMF with core cross-section 1,3 mm² available on request.
Conforms to RoHS.

Ordering code black sheath	Ordering code blue sheath	No. of pairs × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0320260	0320270	1×2×0,5	11,0	15,0	236
0320261	0320271	2×2×0,5	13,0	30,0	308
0320262	0320272	4×2×0,5	15,0	50,0	399
0320263	0320273	8×2×0,5	18,0	90,0	515
0320264	0320274	12×2×0,5	20,5	130,0	664
0320265	0320275	16×2×0,5	22,5	170,0	769
0320266	0320276	20×2×0,5	24,5	210,0	905

Ordering code black sheath	Ordering code blue sheath	No. of pairs × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0320280	0320290	1×2×0,75	11,0	20,0	239
0320281	0320291	2×2×0,75	13,5	35,0	336
0320282	0320292	4×2×0,75	15,5	65,0	446
0320283	0320293	8×2×0,75	19,0	125,0	611
0320284	0320294	12×2×0,75	21,5	185,0	764
0320285	0320295	16×2×0,75	23,5	245,0	857