

# RE-2X(St)YSWAY

Instrumentation cables, screened, armoured, according to EN 50288-7

90 °C/300 V



Just illustration photo

03

## Cable structure

- Stranded bare copper core 0,5 mm<sup>2</sup> (7×0,31 mm), 0,75 mm<sup>2</sup> (7×0,37 mm)
- Cross-linked PE core insulation – XLPE
- White and black core with numbering, pair: a-core black, b-core white
- Cores twisted to pairs with optimal lay length, pairs stranded in layers + 1 communication core 0,5 mm<sup>2</sup> with XLPE insulation, orange – for multicore versions
- Stranded cores wrapped with polyesther foil
- Electrostatic screen of plastic coated aluminium foil with tinned drain-wire 0,5 mm<sup>2</sup> (7×0,31 mm)
- W rapping with polyesther e foil + PVC innersheat
- Armouring of galvanised steel wires with open pattern counterwound galvanised steel strip
- Outer sheath of special PVC
- 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)

## Technical data

- **Conductor resistance** 0,5 mm<sup>2</sup> max. 36,8 Ω/km  
0,75 mm<sup>2</sup> max. 24,6 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
- **Inductance** max. 0,70 mH/km
- **Cross talk attenuation** at 60 kHz min. 0,88 dB/km
- **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. Outer sheath largely resistant to acids, bases and usual oils. Version with blue outer sheath for intrinsically safe instalation.

### Note:

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC  
Technical changes reserved.

Version PIMF and core cross-section 1,3 mm<sup>2</sup> available on request.  
Conforms to RoHS.

Part No. black sheath	Part No. blue sheath	No. of pairs x core cross-section [mm <sup>2</sup> ]	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

Part No. black sheath	Part No. blue sheath	No. of pairs x core cross-section [mm <sup>2</sup> ]	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