

RE-2X(St)H 1 – 24 pairs

CE The cable is conformed with the Low Voltage Directive 2014/35/EU



Instrumentation cable according to EN 50288-7

- General** Collectively screened cable for instrumentation, control and communication applications. Suitable for direct burial use.
- Conductor** Annealed copper solid or stranded
- Insulation** Extruded XLPE. Nominal wall thickness 0,4 mm. Colors white and black, with numbers on white cores 1, 2...n- according to number of pairs.
- Twisting** Two insulated conductors twisted together
- Stranding** Pairs twisted together. Construction of two pairs is made as a quad or two pairs. Polyester tape applied on the strand. 24 µm Al-polyester tape applied as a screen over the polyester tape. 7x0,30 tinned copper drain wire under the screen.
- Sheath** Extruded flame retardant halogen free PE, (EN 50290-2-27)
 Nominal wall thickness cable Ø ≤24 mm 1,8 mm
 cable Ø >24 mm 2,0 mm
 Colour of sheath: black or blue

- Physical properties**
- Installation temperature -15 °C to 50 °C
 - During operation -40 °C to 70 °C
 - Min. bending radius 7,5 x cable Ø
 - Flame propagation IEC 60332-1-2
IEC 60332-3-22 (Cat. A)
 - Sunlight resistance UL1581 section1200
 - Oil resistance ICEA S-82-552/NEMA WC 55

Identification Lot number, cable type, cable size, production month, year, manufacturer's name and meter marking printed on the sheath

Electrical properties

		Unit					
Conductor size	nom.		0,5 mm ²	0,75 mm ²	1,0 mm ²	1,3 mm ²	1,5 mm ²
Conductor resistance	max.	ohm/km	39,2	24,6	18,1	14,2	12,6
Insulation resistance	min.	Mohm x km	5000	5000	5000	5000	5000
Mutual capacitance (800Hz)							
cable of one pair	max.	nF/km	120	120	120	120	120
cable of 2 to 4 pairs	max.	nF/km	100	100	100	100	100
cables above 4 pairs	max.	nF/km	80	80	80	80	80
L/R ratio	max.	µH/ohm	25	25	25	40	40
Inductance	max.	mH/km	0,57	0,60	0,60	0,59	0,60
Test voltage							
Conductor/conductor	min.	VDC 30 s	4000	4000	4000	4000	4000
Conductor/screen	min.	VDC 30 s	2000	2000	2000	2000	2000
Operating voltage (Ueff)	max.	V	300	300	300	300	300

Number of pairs	0,5 mm ²		0,75 mm ²		1,0 mm ²		1,3 mm ²		1,5 mm ²	
	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km
1	5,3	37	5,9	48	6,3	55	6,6	62	7,3	73
2	7,9	64	8,8	83	9,4	96	10,0	112	11,3	137
3	8,5	82	9,4	105	9,9	122	10,6	144	12,0	176
4	9,3	99	10,2	126	10,9	150	11,8	184	13,2	218
6	11,2	138	12,3	178	13,2	214	14,3	263	16,0	313
8	11,8	165	13,1	218	14,2	271	15,2	327	17,2	399
12	14,2	235	15,7	311	17,0	388	18,2	470	20,7	573
16	16,0	296	17,9	404	19,4	503	20,8	612	23,6	747
24	19,3	431	21,4	579	23,3	725	25,2	897	28,5	1094