

## RE-2X(St)H

Instrumentation and control cable, 300 V  
+90 °C service temperature, collective screen, zero halogen, fire retardant, UV & oil resistant  
EN 50288-7

### Application

Zero halogen instrumentation cable with improved fire characteristics for transmission of analogue and digital signals in instrument and control systems where no mechanical damage is to be expected. Allowed for use in zone 1 and zone 2 group II classified areas (IEC 60079-14); not allowed for direct connection to low impedance source, e.g. the public mains electricity. (Please note possible additional or special installation requirements of IEC 60079-14).

Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. For fixed installation indoors and outdoors, on racks, trays, in conduits, in dry and wet locations. No ground laying without protection. Indoor installation is allowed in areas where the construction product regulations (CPR) acc. to EN 50575 of fire class are not required.

### Construction



- |                  |  |
|------------------|--|
| 1. Conductor:    | Copper conductor, stranded (class 2)                           |
| 2. Insulation:   | XLPE insulation (cross-linked polyethylene)                    |
| Identification:  | Pairs – black, white numbered (numbered for multi-element)     |
| 3. Separator:    | 1 Layer of plastic tape  |
| 4. Screen:       | Laminated Alu/PETP tape + tinned copper drain wire             |
| 5. Outer sheath: | Halogen free compound, black or blue (other colors on request) |

### Technical information

Operating voltage		300 V
Test voltage	core-core	1500 V
	core-screen	1500 V
Max. permissible temperature at conductor		90 °C
Min. operating temperature	fixed installation	-30 °C
Installation temperature		-5 °C to 50 °C
Min. bending radius mm	fixed installation	7,5 x outer diameter in mm

#### Safety parameters

Reaction to fire	on request	EN 50399 F <sub>ca</sub>
Flame propagation	single cable	IEC 60332-1
	bunched cable	IEC 60332-3-24
Halogen free		IEC 60754-1 /-2
Low smoke density		IEC 61034-2

#### Additional parameters

UV resistance	UL1581 section1200
Oil resistance	ICEA S-73-532

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### Electrical properties at 20 °C

		0,5 mm <sup>2</sup>	0,75 mm <sup>2</sup>	1,0 mm <sup>2</sup>	1,3 mm <sup>2</sup>	1,5 mm <sup>2</sup>
Conductor resistance	max.	36,7 Ω/km	25 Ω/km	18,5 Ω/km	14,2 Ω/km	12,3 Ω/km
Insulation resistance	min.	5000 MΩ x km				
Mutual capacitance	max.	150 nF/km				
L/R ratio	max.	25 µH/Ω			40 µH/Ω	

Number of pairs	Outer Ø nom. approx.	Weight nom. approx.	Outer Ø nom. approx.	Weight nom. approx.	Outer Ø nom. approx.	Weight nom. approx.	Outer Ø nom. approx.	Weight nom. approx.	Outer Ø nom. approx.	Weight nom. approx.
	mm	kg/km	mm	kg/km	mm	kg/km	mm	kg/km	mm	kg/km
	0,5 mm <sup>2</sup>		0,75 mm <sup>2</sup>		1,0 mm <sup>2</sup>		1,3 mm <sup>2</sup>		1,5 mm <sup>2</sup>	
1	5,0	33	5,4	41	6,1	52	6,6	61	6,9	66
2	7,4	62	8,1	74	8,9	91	10,0	115	10,4	126
4	8,5	87	9,6	113	10,5	141	11,6	174	12,3	200
5	9,4	109	10,4	137	11,5	173	12,9	221	13,5	246
6	10,2	128	11,3	161	12,4	204	14,1	261	14,7	291
8	10,8	150	12,2	199	13,4	252	15,2	322	15,9	361
10	12,4	189	13,8	242	15,2	309	17,2	397	18,2	451
12	13,0	217	14,4	280	16,1	366	18,2	468	19,0	527
16	14,6	278	16,5	366	18,2	474	20,6	607	22,7	706
20	16,2	341	18,3	448	20,3	584	22,9	743	21,7	697
24	17,5	394	19,8	524	22,1	688	25,0	893	24,1	851

La version française de cette fiche technique est disponible sur demande.  
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.