

RE-2X(St)H PiMF

Instrumentation, control and communication cable, 300 V
+90 °C service temperature, individual & collective screen, halogen free, 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, continuously numbered (other colors on request) |
| 3. Individual screen: | Laminated Alu/PETP tape + tinned copper drain wire + plastic tape under and above screen |
| 4. Separator: | 1 Layer of plastic tape |
| 5. Screen: | Laminated Alu/PETP tape + tinned copper drain wire |
| 6. 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 _{ca}
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 ²	0,75 mm ²	1,0 mm ²	1,3 mm ²	1,5 mm ²
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 ²		0,75 mm ²		1,0 mm ²		1,3 mm ²		1,5 mm ²	
2	8,2	72	9,2	90	9,9	107	10,9	130	11,3	141
4	9,7	107	10,6	130	11,5	159	12,8	199	13,3	220
5	10,6	129	11,8	164	12,8	200	14,1	244	14,9	279
6	11,5	153	12,8	193	13,9	238	15,6	296	16,2	327
8	12,4	191	13,6	235	15,0	299	16,8	376	17,4	417
10	14,2	239	15,6	292	17,1	359	19,0	460	20,0	521
12	14,9	268	16,4	333	18,0	424	20,1	531	20,9	591
16	16,8	339	18,7	439	20,4	542	23,0	700	25,2	775
20	18,6	420	20,7	539	22,7	675	25,5	863	23,9	777
24	20,3	494	22,6	632	24,7	797	27,8	1022	26,5	949

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