

RE-2X(St)H PiMF Cca

Instrumentation and control 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.

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 C _{ca} - s1, d1, a1
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. 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
	0,5 mm ²		0,75 mm ²		1,0 mm ²		1,3 mm ²		1,5 mm ²	
2	8,28	92	9,13	108	9,98	125	11,03	151	11,37	161
3	8,82	114	9,74	137	10,65	160	11,76	193	12,13	206
4	9,62	139	10,64	168	11,87	205	12,89	239	13,30	255
5	10,50	165	11,85	207	13,00	244	14,35	294	14,81	314
6	11,58	189	12,85	229	14,33	279	15,60	328	16,11	352
7	11,58	208	12,85	255	14,33	311	15,60	366	16,11	393
8	12,28	233	13,86	292	15,23	348	16,81	419	17,36	450
10	14,06	290	15,66	355	17,46	433	19,26	521	19,90	560
12	14,68	334	16,57	419	18,26	501	20,14	603	20,82	649
15	16,09	403	18,18	507	20,26	618	22,35	744	23,11	801
16	16,73	434	18,68	536	20,83	654	22,98	787	23,76	848
20	18,35	526	20,73	662	23,11	807	25,49	970	26,36	1046
24	20,21	627	22,80	789	25,38	961	27,97	1156	28,93	1247

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