

RE-2X(St)YSWAY-fl C_{ca}

Instrumentation and control cable, 300 V
+90 °C service temperature, collective screen, steel wire armored, fire retardant, sunlight and oil resistant
adapted to EN 50288-7

Application

Instrumentation cables with steel wire armoring for use in environments with electromagnetic interference. These cables are widely used in the petrochemical industry, in instrumentation and control applications for instrumentation, control and communication applications. Cables are suitable for direct burial. 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 (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. Inner sheath: | PVC |
| 6. Armoring: | Galvanized steel wires |
| 7. Outer sheath: | PVC, 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	10 x outer diameter in mm

Safety parameters

Reaction to fire		EN 50399 C _{ca} – s3, d2, a3
Flame propagation	single cable	IEC 60332-1
	bunched cables	IEC 60332-3-24
	on request bunched cables	IEC 60332-3-22

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. mm	Weight nom. approx. kg/km	Outer Ø nom. approx. mm	Weight nom. approx. kg/km	Outer Ø nom. approx. mm	Weight nom. approx. kg/km	Outer Ø nom. approx. mm	Weight nom. approx. kg/km	Outer Ø nom. approx. mm	Weight nom. approx. kg/km
	0,5 mm ²		0,75 mm ²		1,0 mm ²		1,3 mm ²		1,5 mm ²	
1	9,4	169	9,8	183	10,5	207	11,0	229	11,3	241
2	11,8	249	12,7	282	13,5	318	14,6	363	15,1	387
4	13,1	301	14,2	354	15,1	402	16,2	461	17,1	509
5	14,0	344	15,0	398	16,1	459	17,7	542	18,3	583
6	14,8	383	15,9	443	17,1	513	18,9	610	19,5	655
8	15,4	418	17,0	507	18,3	589	20,0	704	20,9	770
10	17,2	502	18,6	584	20,0	689	22,9	957	23,9	1042
12	17,8	544	19,3	641	20,9	770	23,9	1049	24,9	1144
16	19,4	639	21,5	789	23,9	1054	26,5	1272	27,6	1388
20	21,2	752	24,0	1031	26,2	1235	29,0	1486	30,2	1639
24	23,2	954	25,7	1170	28,0	1399	31,1	1708	32,2	1861

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