

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

Instrumentation and control cable, 300 V
+90 °C service temperature, individual and 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, continuously numbered |
| 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. Inner sheath: | PVC |
| 7. Armoring: | Galvanized steel wires |
| 8. 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	
2	12,8	280	13,8	323	14,5	355	15,5	399	15,9	422
4	14,3	348	15,2	397	16,1	446	17,6	521	18,1	555
5	15,2	395	16,6	465	17,6	524	18,9	595	19,7	649
6	16,1	438	17,6	515	18,7	587	20,6	700	21,9	848
8	17,2	506	18,4	580	19,8	675	22,5	923	23,3	988
10	19,0	592	21,3	795	22,8	905	24,9	1078	25,9	1164
12	19,7	635	22,1	869	23,7	997	26,0	1184	28,2	1342
16	22,5	883	24,6	1044	26,3	1204	29,1	1449	30,0	1563
20	24,5	1023	26,6	1201	28,6	1400	31,8	1696	33,5	2005
24	26,2	1153	28,7	1379	30,8	1608	35,0	2137	36,1	2311

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