

## RE-2Y(St)YSWAY-fl C<sub>ca</sub>

Instrumentation and control cable, 500 V  
+70 °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.

### Construction



- |                  |  |
|------------------|--|
| 1. Conductor:    | Copper conductor, stranded (class 2)                       |
| 2. Insulation:   | PE (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		500 V
Test voltage	core-core	2000 V
	core-screen	2000 V
Max. permissible temperature at conductor		70 °C
Min. bending radius mm	fixed installation	10 x outer diameter in mm

#### Safety parameters

Reaction to fire EN 50399 C<sub>ca</sub> – s3, d2, a3

#### Additional parameters

Oil resistant ICEA S-73-532  
UV resistant UL 1581 Section 1200

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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 Ω / km	24,5 Ω / km	18,1 Ω / km	13,92 Ω / km	12,1 Ω / km
Insulation resistance	min.	1000 MΩ x km				
Mutual capacitance	max.	150 nF/km				
L/R ratio	max.	25 μH/Ω			40 μH/Ω	

\*an additional 2% of the maximum resistance has been allowed for cable of multipair construction

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	10,5	226	10,9	244	11,3	262	12,0	295	12,2	303
2	13,7	336	14,4	368	15,1	400	16,3	465	16,6	483
4	15,2	413	16,4	480	17,2	532	18,4	602	18,9	633
6	17,6	511	18,82	588	20,7	773	22,2	875	22,7	915
8	18,6	576	19,9	661	21,7	860	23,5	990	24,0	1037
10	21,3	784	22,8	899	24,2	1019	26,1	1168	26,9	1248
12	22,2	854	23,7	984	25,3	1117	27,2	1283	28,0	1371
16	24,5	1010	26,3	1176	28,2	1362	30,2	1548	32,0	1849
20	26,5	1152	26,7	1370	30,8	1586	33,7	2005	35,0	2160
24	28,8	1321	31,1	1568	33,7	1970	36,51	2284	37,7	2439

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