

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

Instrumentation and control cable, 500 V  
+70 °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.

### Construction



- |                       |  |
|-----------------------|--|
| 1. Conductor:         | Copper conductor, stranded (class 2)   |
| 2. Insulation:        | PE (polyethylene)  |
| Identification:       | Pairs – black, white numbered (numbered for multi-element)                               |
| 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		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
<b>Safety parameters</b>		
Reaction to fire		EN 50399 C <sub>ca</sub> – s3, d2, a3
<b>Additional parameters</b>		
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>	
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2	14,24	370	14,92	402			16,85	495		
4	16,26	482	17,08	532			19,32	665		
6	18,62	594	19,84	668			23,23	969		
8	19,68	677	21,48	863			24,36	1089		
10	22,52	919	24,00	1026			27,28	1300		
12	23,48	998	25,03	1138			28,47	1443		
16	25,95	1198	27,91	1380			32,52	1948		
20	28,34	1400	30,08	1582			35,50	2278		
24	30,33	2567	33,34	1997			38,44	2597		

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