

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

Instrumentation and control cable, 500 V  
+70 °C service temperature, collective screen, fire retardant, sunlight and oil resistant  
adapted to EN 50288-7

### Application

For transmission of analogue and digital signals in instrument and control systems; 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 supply. Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations.

### 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. Outer sheath: | PVC outer sheath, 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	7,5 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 (4h, 70 °C)
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				
Inductance	max.	1 mH/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.	Weight nom.	Outer Ø nom.	Weight nom.	Outer Ø nom.	Weight nom.	Outer Ø nom.	Weight nom.	Outer Ø nom.	Weight nom.
	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	6,1	58	6,5	68	6,9	79	7,4	92	7,6	98
2	9,1	89	9,8	105	10,4	124	11,5	152	11,8	162
4	10,6	130	11,6	165	12,4	197	13,6	243	14,0	260
6	12,8	183	10,0	232	15,0	277	16,5	342	17,0	367
8	13,8	229	14,9	281	16,00	339	17,6	419	18,1	452
12	16,5	321	17,8	399	19,4	491	21,0	592	21,9	654
16	18,6	401	20,4	516	22,1	636	24,0	768	25,0	848
20	20,6	492	22,6	632	24,5	780	26,7	944	27,8	1041
24	22,7	586	24,8	752	26,7	910	29,3	1123	30,4	1237

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