

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

Instrumentation and control cable, 500 V
+70 °C service temperature, individual and 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



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|-----------------------|--|
| 1. Conductor: | Copper conductor, stranded (class 2) |
| 2. Insulation: | PE (cross-linked polyethylene) |
| Identification: | Pairs – black, white 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. Collective screen: | Laminated Alu/PETP tape + tinned copper drain wire |
| 6. Outer sheath: | PVC outer sheath, black or blue – other colors on request |

Technical information

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

Safety parameters

Reaction to fire EN 50399 C_{ca} – 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 ²	0,75 mm ²	1,0 mm ²	1,3 mm ²	1,5 mm ²
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 ²		0,75 mm ²		1,0 mm ²		1,3 mm ²		1,5 mm ²	
2	9,6	106	10,3	122	11,2	145	12,0	154	12,4	161
4	11,4	127	12,2	184	13,1	212	14,3	241	14,7	256
6	13,8	216	14,8	255	15,7	294	17,3	338	17,8	361
8	14,7	256	15,8	306	17,1	366	18,4	412	19,2	453
12	17,6	357	19,1	441	20,5	512	22,4	598	23,4	641
16	20,0	456	21,8	564	23,4	658	25,5	772	26,3	829
20	22,2	554	24,0	673	25,9	803	28,3	945	29,2	1015
24	24,2	641	26,3	798	28,4	952	31,1	1120	32,0	1205

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