

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

Instrumentation and control cable, 300 V
+90 °C service temperature, individual and collective screen, fire retardant, sunlight and oil resistant, reinforced sheath
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; for direct burial.

Construction



- | | |
|-----------------------|--|
| 1. Conductor: | Copper conductor, stranded (class 2) |
| 2. Insulation: | XLPE (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: | Reinforced PVC outer sheath, black or blue – other colors on request |

Technical information

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		7,5 x outer diameter in mm

Safety parameters

Reaction to fire		EN 50399 C _{ca} – s3, d2, a3
Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3-24

Additional parameters

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

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

Instrumentation and control cable, 300 V
+90 °C service temperature, individual and collective screen, fire retardant, sunlight and oil resistant, reinforced sheath
adapted to EN 50288-7

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	max.	36,7 Ω / km	25,0 Ω / km	18,5 Ω / km	14,2 Ω / km	12,3 Ω / km
Insulation	min.	5000 MΩ x km				
Mutual capacitance	max.	150 nF/km				
Inductance	max.	1 mH/km				
L/R ratio	max.	25 µH/Ω			40 µH/Ω	

Number of pairs	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km
	0,5 mm ²		0,75 mm ²		1,0 mm ²		1,3 mm ²		1,5 mm ²	
2	10,5	125	11,3	141	12,0	166	13,0	192	13,4	207
4	11,8	169	12,8	200	13,7	230	14,8	271	15,3	293
5	12,8	195	13,9	234	14,9	273	16,2	324	16,7	354
6	13,7	227	15,0	274	16,1	316	17,5	378	18,1	410
8	14,5	169	15,8	323	17,0	378	18,6	455	19,2	497
10	16,3	319	17,8	385	19,2	457	21,0	552	21,8	604
12	16,9	355	18,6	423	20,0	515	21,9	620	22,7	685
16	19,0	445	20,8	543	22,5	652	24,7	792	25,7	882
20	20,7	525	22,8	647	24,7	785	27,2	954	28,2	1055
24	22,3	617	24,6	749	26,7	916	29,4	1109	30,6	1252

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