

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

Instrumentation and control cable, 300 V
+90 °C service temperature, 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 (numbered for multi-element) |
| 3. Separator: | 1 Layer of plastic tape |
| 4. Screen: | Laminated Alu/PETP tape + tinned copper drain wire |
| 5. Outer sheath: | Reinforced PVC outer sheath, black or blue – other colors on request |

Technical information

Operating 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	fixed installation	7,5 x outer diameter in mm

Safety parameters

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

Additional parameters

Oil resistance		ICEA S-73-532
UV resistance		UL1581 section1200

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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	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	
1	7,2	71	7,7	78	8,1	90	8,6	101	8,9	109
2	9,4	108	10,3	128	11,0	146	12,0	171	12,4	188
4	10,6	140	11,6	165	12,5	200	13,6	239	14,1	261
5	11,4	163	12,5	199	13,5	236	14,8	286	15,4	313
6	12,2	187	13,4	229	14,6	276	16,0	332	16,6	364
8	12,9	213	14,2	265	15,4	321	16,9	391	17,6	433
10	14,3	252	15,9	317	17,3	386	19,1	474	19,8	526
12	14,9	283	16,5	358	18,0	442	19,9	541	20,7	605
16	16,6	353	18,5	441	20,2	558	22,4	679	23,3	772
20	18,1	406	20,2	536	22,1	666	24,6	832	25,6	933
24	19,5	483	21,8	610	23,9	778	26,5	954	27,7	1091

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