RE-2Y(St)Yv and Yv-fl 1 – 24 pairs

The cable is conformed with the Low Voltage Direktive 2006/95/EEC

Instrumentation cable according to EN 50288-7

General Collective screened cable for instrumentation, control and communication applications.

Conductor Annealed copper solid or stranded

Insulation Extruded PE. Nominal wall thickness 0,4 mm. Insulation colors white and black, white colors numbered 1, 2…n- according to number of pairs

Twisting Two insulated conductors twisted together

Stranding Pairs twisted together. Construction of two pairs is made as a quad or two pairs. Polyester tape applied on the strand. 24 µm Al-polyester tape applied as a screen over the polyester tape. 7x0,30 tinned copper drain wire under the screen.

Sheath Extruded PVC

Nominal wall thickness	cable ∅ ≤24 mm	1,8 mm
	cable ∅ >24 mm	2,0 mm

Physical properties

Flame retardant	IEC 60332-1-2	RE-2Y(St)Yv and RE-2Y(St)Yv-fl
	IEC 60332-3-24	RE-2Y(St)Yv-fl
Installation temperature range	-5 °C to 50 °C	
Operation temperature range	-30 °C to 70 °C	
Min. bending radius	7,5 x cable ∅	
Sunlight resistance	UL 1581 section 1200	
Oil resistance	ICEA S-82-552/NEMA WC 55	

Identification Lot number, cable type, cable size, production month, year, manufacturer's name, meter and CE marking printed on the sheath

Electrical properties

		Unit								
Conductor size	nom.		0,8 mm	1,29 mm	0,5 mm²	0,75 mm²	1,0 mm²	1,3 mm²	1,5 mm²	2,5 mm²
Conductor resistance	max.	ohm/km	36,8	14,2	39,2	24,6	18,1	14,2	12,6	7,3
Insulation resistance	min.	Mohmxkm	5000	5000	5000	5000	5000	5000	5000	5000
Mutual capacitance										
cable of one pair	max.	nF/km	120	120	120	120	120	120	120	120
cable of 2 to 4 pairs	max.	nF/km	100	100	100	100	100	100	100	100
cables above 4 pairs	max.	nF/km	80	80	80	80	80	80	80	80
L/R ratio	max.	µH/ohm	25	40	25	25	25	40	40	80
Test voltage										
Conductor/conductor	min.	VDC 30s	4000	4000	4000	4000	4000	4000	4000	4000
Conductor/screen	min.	VDC 30s	2000	2000	2000	2000	2000	2000	2000	2000
Operating voltage (Ueff)	max.	V	300	300	300	300	300	300	300	300

Number of pairs	Outer ∅ nom. mm	Weight nom. kg/km	Outer ∅ nom. mm	Weight nom. kg/km	Outer ∅ nom. mm	Weight nom. kg/km	Outer ∅ nom. mm	Weight nom. kg/km	Outer ∅ nom. mm	Weight nom. kg/km
	0,5 mm²		0,75 mm²		1,0 mm²		1,3 mm²		1,5 mm²	
1	7,3	60	7,7	70	8,2	80	8,4	90	9,3	125
2	9,8	110	10,6	130	11,2	140	11,7	180	12,8	185
4	11,5	140	11,8	155	12,6	195	13,3	220	14,6	265
8	13,4	210	14,5	250	15,5	315	16,6	365	18,2	360
12	15,5	280	16,9	350	18,2	425	19,3	505	21,6	590
16	17,3	335	18,9	430	20,3	535	21,7	630	24,5	775
24	20,2	450	22,2	600	24,5	780	26,3	930	29,2	1120

Technical data of triples, other conductor dimensions and number of pairs will be stated on request.