

RE-2Y(L)2YY 1 – 24 pairs



Instrumentation cable

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. ALPE40/150 Al-laminate tape applied as a screen over the polyester tape. 7x0,30 tinned copper drain wire under the screen.	
Inner sheath	Extruded PE	
	Nominal wall thickness	cable $\varnothing \leq 24$ mm 1,8 mm cable $\varnothing > 24$ mm 2,0 mm
Outer sheath	PVC. Colour of sheath: black or blue	
Physical properties	Installation temperature range	-5 °C to +50 °C
	Min. bending radius	7,5 x cable \varnothing
Identification	Lot number, cable type, cable size, production month, year, manufacturer's name and meter marking printed on the sheath	

Electrical properties

	Unit				
Conductor size	nom.		0,75 mm ²	1,0 mm ²	1,3 mm ²
Conductor resistance	max.	ohm/km	24,6	18,1	14,2
Insulation resistance	min.	Mohmxkm	5000	5000	5000
Mutual capacitance (800Hz)					
cable of one pair	max.	nF/km	120	120	120
cable of 2 to 4 pairs	max.	nF/km	100	100	100
cables above 4 pairs	max.	nF/km	80	80	80
L/R ratio	max.	μ H/ohm	25	40	40
Test voltage					
Conductor/conductor	min.	VDC 30s	4000	4000	4000
Conductor/screen	min.	VDC 30s	2000	2000	2000
Operating voltage (Ueff)	max.	V	300	300	300

Number of pairs	0,75 mm ²		1,0 mm ²		1,3 mm ²	
	Outer \varnothing nom. mm	Weight nom. kg/km	Outer \varnothing nom. mm	Weight nom. kg/km	Outer \varnothing nom. mm	Weight nom. kg/km
1	9,9	86,4	11,6	137,6	11,7	138,8
2	12,9	148,5	13,1	163,1	13,6	178,2
4	13,7	191,9	14,8	231,4	15,2	251,8
6	15,5	252,2	16,3	293,0	18,1	348,9
8	16,4	290,1	17,8	355,6	18,4	400,8
12	20,1	443,2	20,8	492,2	22,6	610,4
16	21,4	495,9	22,9	610,4	23,9	704,3
20	23,9	633,0	25,1	757,3	26,6	879,6
24	25,5	721,9	26,8	863,0	28,9	1038,9

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