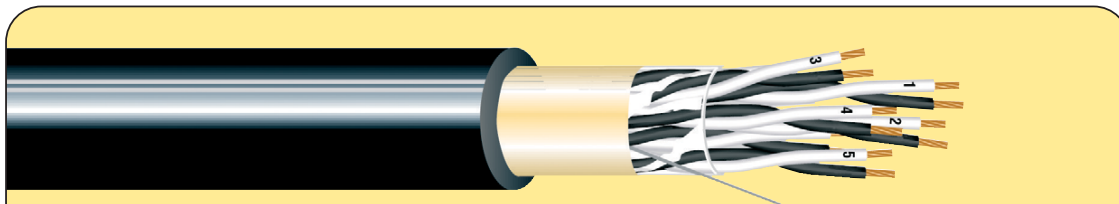


RE-2Y(St)Y 1 – 40 pairs

INSTRUMENTATION CABLE ACCORDING TO EN 50288-7

Updated: 22.08.2007



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. Colors white and black with numbers on white cores 1-1, 2-2..n-n according to number of pairs.								
Twisting	Two insulated conductors twisted together.								
Stranding	Pairs twisted together. 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 <table border="0" style="margin-left: 20px;"> <tr> <td>cable dia. ≤16 mm</td> <td>1,2 mm</td> </tr> <tr> <td>cable dia. ≤22 mm</td> <td>1,4 mm</td> </tr> <tr> <td>cable dia. >22 mm</td> <td>1,6 mm</td> </tr> </table> <p>Colors black, black with a blue stripe or blue. Sheath marking includes: Cable type, production lot number, year and month of manufacture, word HELKAMA, running length. Marking in 1 meter intervals or according to the customer's requirement.</p>			cable dia. ≤16 mm	1,2 mm	cable dia. ≤22 mm	1,4 mm	cable dia. >22 mm	1,6 mm
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Physical Properties	Flame retardant	IEC 60332-1
	Installation temperature range	-5 °C to 50 °C
	Operation temperature range	-30 °C to 70 °C
	Min. bending radius	7,5 x cable diameter
	Sunlight resistance	UL 1581 section 1200
	Oil resistance	ICEA S-82-552/NEMA WC 5

Electrical properties

		Unit								
Conductor size	nom.		0,8 mm	1,29 mm	0,5 mm ²	0,75 mm ²	1,0 mm ²	1,3 mm ²	1,5 mm ²	2,5 mm ²
Conductor loop res.	max.	ohm/km	73,6	28,4	78,4	49,2	37,2	28,4	25,2	15,2
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 dia. nom. mm	Weight nom. kg/km	Outer dia. nom. mm	Weight nom. kg/km	Outer dia. nom. mm	Weight nom. kg/km	Outer dia. nom. mm	Weight nom. kg/km	Outer dia. 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	6,0	50	6,5	65	7	70	7,2	75	8,1	100
2	8,6	70	9,4	95	10	110	10,5	120	11,6	140
4	9,8	105	10,6	130	11,4	145	12,1	180	13,4	225
8	12,2	165	13,3	220	14,3	260	15,4	335	17,4	380
12	14,3	235	16,1	315	17,4	380	18,5	485	20,8	570
16	16,1	295	18,1	400	19,5	500	20,9	610	24,1	750
24	19,4	430	21,4	570	24,1	750	25,9	905	28,8	1090

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