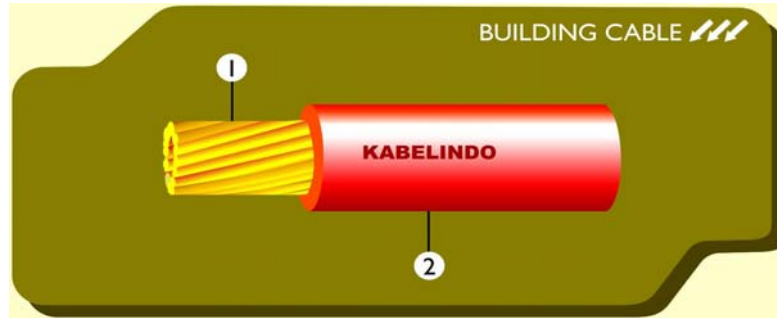


**NYA 450/750 V**

**Copper Conductor, PVC Insulated**



- 1. Conductor : Annealed Copper wire
- 2. Insulation : Extrud

**PVC LOW VOLTAGE CABLE**

**TECHNICAL DATA**

**Spec** Specification : SPLN 42 - 1 : 1991,  
IEC 60502 - 1 : 1997

**APL** Used for permanent installation in conduit exposed wiring in dry location.

**Cu** Conductor Shape : re = Circular Sol  
rm = Circular Strande

**DCV** DC Test Voltage : 6 kV for 5 minute

**DIMENSIONAL DATA**

**1 CORE**

SIZE	No. of wire and Diameter Of wire		Nominal Insulation Thickness	Approximately		Min. Bending Diameter	Std. Length per reel
	pcs	shape		Overall Diameter	Net. Weight		
mm <sup>2</sup>			mm	mm	kg/km	mm	m
1.5	1	re	0.7	2.8	20	50	100 / Coil
	7	rm		3	22	54	
2.5	1	re	0.8	3.4	33	61	
	7	rm		3.7	35	67	
4	1	re		3.9	48	70	
	7	rm		4.2	50	76	
6	1	re		4.4	67	79	
	7	rm		4.8	74	86	
10	1	re	1	5.6	111	101	
	7	rm		6.1	120	110	
16	7	rm		7.2	183	130	
25	7	rm	1.2	8.9	275	160	
35	7	rm		10	379	180	
50	19	rm	1.4	12	545	216	
70	19	rm		13.7	737	247	
95	19	rm	1.6	15.9	970	286	
120	37	rm		17.5	1223	315	
150	37	rm	1.8	19.5	1511	351	
185	37	rm	2	21.7	1888	391	
240	61	rm	2.2	24.7	2462	445	
300	61	rm	2.4	27.3	3039	491	
400	61	rm	2.6	31.3	4026	563	

**ELECTRICAL DATA**

SIZE	DC Resistance at 20°C		Current Carrying Capacity at 30°C		Conductor Short Circuit Current Capacity at :			DC Voltage Test
	Conductor Max	Insulation Min	In Air	In Pipe	0.1 second	0.5 second	1.0 second	
mm <sup>2</sup>	Ohm/km	M.ohm.km	A	A	kA	kA	kA	6 Kv for 5 minutes
1.5	12.1	50	24	15	0.67	0.30	0.21	
2.5	7.41		32	19	1.12	0.50	0.36	
4	4.61		41	25	1.80	0.80	0.57	
6	3.08		53	33	2.69	1.20	0.85	
10	1.83		72	45	4.49	2.01	1.42	
16	1.15	40	97	61	7.18	3.21	2.27	
25	0.727		128	83	11.23	5.02	3.55	
35	0.524		156	103	15.72	7.03	4.97	
50	0.387	30	195	132	22.45	10.04	7.10	
70	0.268		243	165	31.43	14.06	9.94	
95	0.193		287	207	42.66	19.08	13.49	
120	0.153		342	235	53.89	24.10	17.04	
150	0.124	20	386	-	67.36	30.12	21.30	
185	0.0991		441	-	83.07	37.15	26.27	
240	0.0754		525	-	107.77	48.20	34.08	
300	0.0601		605	-	134.71	60.25	42.60	
400	0.0470		725	-	179.62	80.33	56.80	