

**NON-METALLIC SHEATHED OUTDOOR CABLE  
(PVC INSULATED & SHEATHED)  
NYY - 0 (I) 0.6/1 kV**



**Feature**

These low voltage cables are applied for common indoor, outdoor installation and underground

**CONSTRUCTION**

**Conductor**

Solid or stranded annealed copper conductor.

**Insulation**

Extruded colored PVC, capable for the operating continuously maximum temperature of the cable.

**Inner Sheath**

Extruded Black PVC Filler.

**Outer Sheath**

Extruded Black PVC, suitable for the operating continuously of the cable.

**Identification of cores**

Complying with system O/I (**Other colors on request**)

**Specification** : SPLN 43-3 :1981; SNI 04-2701-1999

**(Other specifications are available upon request)**

**PHYSICAL PROPERTIES**

No. of core	Nominal cross section mm <sup>2</sup>	Conductor		Insulation thickness mm	Approx. inner covering mm	Sheath thickness mm	Approx. overall diameter mm	Approx. cable weight kg/km	Standard length m
		Construction	No. of wire						
1	1.5	re/rm	1/7	0.8	-	1.4	6.0	54	100/500
	2.5	re/rm	1/7	0.8	-	1.4	6.5	68	100/500
	4	re/rm	1/7	1.0	-	1.4	7.5	95	100/500
	6	re/rm	1/7	1.0	-	1.4	8.0	120	100/500
	10	re/rm	1/7	1.0	-	1.4	8.9	170	100/500
	16	re/rm	1/7	1.0	-	1.4	10.0	240	500
	25	rm	7	1.2	-	1.4	11.7	350	500
	35	rm	7	1.2	-	1.4	12.9	455	500
	50	rm	19	1.4	-	1.4	14.9	625	500
	70	rm	19	1.4	-	1.4	16.6	835	500
	95	rm	19	1.6	-	1.5	19.0	1,115	500
	120	rm	37	1.6	-	1.5	20.6	1,365	500
	150	rm	37	1.8	-	1.6	22.7	1,670	500
	185	rm	37	2.0	-	1.7	25.2	2,085	500
	240	rm	61	2.2	-	1.8	28.5	2,700	500
	300	rm	61	2.4	-	1.9	31.5	3,360	500
400	rm	61	2.6	-	2.0	35.5	4,365	500	
500	rm	61	2.8	-	2.1	38.9	5,315	500	

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**ELECTRICAL PROPERTIES**

No. of core	Nominal cross section	Resistance at 20° C		Current carrying capacity in		Reactance per conductor /	Short circuit current at 1 sec	AC voltage test
		Construction	Insulation	Ground 30° C	Air 30° C			
	mm <sup>2</sup>	ohm/km	M.ohm.km	A	A	ohm/km	kA	kV/5 min
1	1.5	11.90	62	33	26	-	0.17	3.5
	2.5	7.14	57	45	35	-	0.29	3.5
	4	4.47	52	58	46	-	0.46	3.5
	6	2.97	44	74	58	-	0.70	3.5
	10	1.77	36	98	80	-	1.16	3.5
	16	1.12	26	129	105	0.110/0.254	1.86	3.5
	25	0.712	26	169	140	0.107/0.242	2.91	3.5
	35	0.514	22	210	175	0.097/0.228	4.07	3.5
	50	0.379	22	250	215	0.096/0.189	5.81	3.5
	70	0.262	19	310	270	0.094/0.210	8.14	35
	95	0.189	18	375	335	0.091/0.203	11.05	3.5
	120	0.150	16	425	390	0.088/0.196	13.95	3.5
	150	0.122	16	480	445	0.086/0.192	17.44	3.5
	185	0.0972	16	550	510	0.086/0.184	21.51	3.5
	240	0.0740	16	640	620	0.082/0.174	27.91	3.5
	300	0.0590	15	730	710	0.082/0.170	34.88	3.5
400	0.0461	14	855	850	0.078/0.163	46.51	3.5	
500	0.0366	14	990	1000	0.078/0.157	58.14	3.5	

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**PHYSICAL PROPERTIES**

No. of core	Nominal cross section	Conductor		Insulation thickness	Approx. inner sheath thickness	Sheath thickness	Approx. overall diameter	Approx. cable weight	Standard length
		Construction	Min. no. of wire						
	mm <sup>2</sup>			mm	mm	mm	mm	kg/km	m
2	1.5	re/rm	1/7	0.8	1.0	1.8	11.7	196	100/500
	2.5	re/rm	1/7	0.8	1.0	1.8	12.5	236	100/500
	4	re/rm	1/7	1.0	1.0	1.8	14.3	325	100/500
	6	re/rm	1/7	1.0	1.0	1.8	15.3	390	100/500
	10	re/rm	1/7	1.0	1.0	1.8	17.9	565	100/500
	16	re/rm	1/7	1.0	1.0	1.8	20.1	760	500
	25	rm	7	1.2	1.0	1.8	23.5	1,090	500
	35	rm	7	1.2	1.0	1.8	25.8	1,385	500
	50	rm/sm	19/15	1.4	1.0	1.8	29.8	1,890	500
	70	rm/sm	19/15	1.4	1.0	1.9	33.4	2,485	500
	95	rm/sm	19/15	1.6	1.2	2.0	38.3	3,305	500
	120	rm/sm	37/15	1.6	1.2	2.1	41.7	3,995	500
	150	rm/sm	37/15	1.8	1.2	2.2	45.9	4,855	500
3	1.5	re/rm	1/7	0.8	1.0	1.8	12.2	220	100/500
	2.5	re/rm	1/7	0.8	1.0	1.8	13.1	270	100/500
	4	re/rm	1/7	1.0	1.0	1.8	15.0	375	100/500
	6	re/rm	1/7	1.0	1.0	1.8	16.1	460	100/500
	10	re/rm	1/7	1.0	1.0	1.8	18.8	675	100/500
	16	re/rm	1/7	1.0	1.0	1.8	21.2	930	500
	25	rm	7	1.2	1.0	1.8	24.9	1,350	500
	35	rm/sm	7/6	1.2	1.0	1.8	27.3	1,735	500
	50	rm/sm	19/6	1.4	1.0	1.8	31.6	2,375	500
	70	rm/sm	19/15	1.4	1.2	2.0	36.1	3,210	500
	95	rm/sm	19/15	1.6	1.2	2.1	41.0	4,230	500
	120	rm/sm	37/15	1.6	1.2	2.2	44.7	5,120	500
	150	rm/sm	37/15	1.8	1.4	2.3	49.5	6,295	300
	185	rm/sm	37/15	2.0	1.4	2.5	54.9	7,810	300
	240	rm/sm	61/30	2.2	1.6	2.7	62.2	10,145	300
	300	rm/sm	61/30	2.4	1.8	3.1	68.9	12,595	300
400	rm/sm	61/53	2.6	1.8	3.5	77.6	16,290	300	

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**ELECTRICAL PROPERTIES**

No. of core	Nominal cross section	Resistance at 20°C		Current carrying capacity in		Reactance per conductor	Short circuit current at 1 sec	AC Voltage test
		Conductor	Insulation	Ground 30°C	Air 30°C			
	mm <sup>2</sup>	ohm/km	M.ohm.km	A	A	ohm/km	kA	kV/5 min
2	1.5	12.10	62	27	21	0.108	0.17	3.5
	2.5	7.28	57	36	29	0.104	0.29	3.5
	4	4.56	52	47	38	0.100	0.46	3.5
	6	3.03	44	59	48	0.094	0.70	3.5
	10	1.81	36	78	66	0.088	1.16	3.5
	16	1.14	26	102	90	0.083	1.86	3.5
	25	0.727	26	134	120	0.080	2.91	3.5
	35	0.524	22	160	150	0.077	4.07	3.5
	50	0.387	22	187	180	0.077	5.81	3.5
	70	0.268	19	230	230	0.074	8.14	3.5
	95	0.193	18	280	275	0.074	11.05	3.5
	120	0.153	16	320	320	0.072	13.95	3.5
	150	0.124	16	355	375	0.072	17.44	3.5
3	1.5	12.10	62	24	18	0.108	0.17	3.5
	2.5	7.28	57	32	25	0.104	0.29	3.5
	4	4.56	52	41	34	0.100	0.46	3.5
	6	3.03	44	52	44	0.094	0.70	3.5
	10	1.81	36	69	60	0.088	1.16	3.5
	16	1.14	26	89	80	0.083	1.86	3.5
	25	0.727	26	116	105	0.080	2.91	3.5
	35	0.524	22	138	130	0.077	4.07	3.5
	50	0.387	22	165	160	0.077	5.81	3.5
	70	0.268	19	205	200	0.074	8.14	3.5
	95	0.193	18	245	245	0.074	11.05	3.5
	120	0.153	16	285	285	0.072	13.95	3.5
	150	0.124	16	315	325	0.072	17.44	3.5
	185	0.0991	16	355	370	0.072	21.51	3.5
	240	0.0754	16	415	435	0.072	27.91	3.5
300	0.0601	14	465	500	0.072	34.88	3.5	
400	0.0470	14	535	600	0.072	46.48	3.5	

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No. of core	Nominal cross section	Conductor		Insulation thickness	Approx. inner sheath thickness	Sheath thickness	Approx. overall diameter	Approx. cable weight	Standard length
		Construction	Min. no. of wire						
	mm <sup>2</sup>			mm	mm	mm	mm	kg/km	m
4	1.5	re/rm	1/7	0.8	1.0	1.8	13.0	255	100/500
	2.5	re/rm	1/7	0.8	1.0	1.8	13.9	320	100/500
	4	re/rm	1/7	1.0	1.0	1.8	16.1	445	100/500
	6	re/rm	1/7	1.0	1.0	1.8	17.3	555	100/500
	10	re/rm	1/7	1.0	1.0	1.8	20.4	825	100/500
	16	re/rm	1/7	1.0	1.0	1.8	23.1	1,150	500
	25	rm	7	1.0	1.0	1.8	27.2	1,685	500
	35	rm/sm	7/6	1.2	1.0	1.8	29.9	2,175	500
	50	rm/sm	19/6	1.4	1.2	1.9	35.4	3,045	500
	70*	rm/sm	19/15	1.4	1.2	2.1	35.9	3,900	500
	95*	rm/sm	19/15	1.6	1.2	2.2	41.5	5,185	500
	120*	rm/sm	37/15	1.6	1.4	2.3	44.7	6,300	500
	150*	rm/sm	37/15	1.8	1.4	2.5	50.0	7,745	300
	185*	rm/sm	37/15	2.0	1.4	2.7	55.3	9,615	300
	240*	rm/sm	61/30	2.2	1.6	2.9	61.9	12,455	300
	300*	rm/sm	61/30	2.4	1.6	3.1	67.9	15,410	300
400*	rm/sm	61/30	2.6	1.8	3.4	77.2	20,070	300	
5	1.5	re/rm	1/7	0.8	1.0	1.8	13.9	296	100/500
	2.5	re/rm	1/7	0.8	1.0	1.8	14.9	375	100/500
	4	re/rm	1/7	1.0	1.0	1.8	17.4	530	100/500
	6	re/rm	1/7	1.0	1.0	1.8	18.7	665	100/500
	10	re/rm	1/7	1.0	1.0	1.8	22.2	1,000	100/500
	16	re/rm	1/7	1.0	1.0	1.8	25.1	1,400	500
	25	rm	7	1.0	1.0	1.8	29.7	2,065	500
	35	rm/sm	7/6	1.2	1.0	1.9	33.0	2,690	500
	50	rm/sm	19/6	1.4	1.2	2.0	39.0	3,765	500

\*] Cables with sector shaped conductor

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No. of core	Nominal cross section	Resistance at 20°C		Current carrying capacity in		Reactance per conductor	Short circuit current at 1 sec	AC voltage test
		Conductor	Insulation	Ground 30°C	Air 30°C			
	mm <sup>2</sup>	ohm/km	M. ohm. km	mm	mm	ohm/km	kA	kV/5 min
4	1.5	12.10	62	24	18	0.115	0.17	3.5
	2.5	7.28	57	32	25	0.110	0.29	3.5
	4	4.56	52	41	34	0.107	0.46	3.5
	6	3.03	44	52	44	0.100	0.70	3.5
	10	1.81	36	69	60	0.094	1.16	3.5
	16	1.14	26	89	80	0.090	1.86	3.5
	25	0.727	26	116	105	0.086	2.91	3.5
	35	0.524	22	138	130	0.083	4.07	3.5
	50	0.387	22	165	160	0.083	5.81	3.5
	70	0.268	19	205	200	0.082	8.14	3.5
	95	0.193	18	245	245	0.080	11.05	3.5
	120	0.153	16	280	285	0.080	13.95	3.5
	150	0.124	16	315	325	0.080	17.44	3.5
	185	0.0991	16	355	370	0.080	21.51	3.5
	240	0.0754	16	415	435	0.079	27.91	3.5
300	0.0601	14	465	500	0.079	34.88	3.5	
400	0.0470	14	535	600	0.079	46.48	3.5	
5	1.5	12.10	62	24	18	0.115	0.17	3.5
	2.5	7.28	57	32	25	0.110	0.29	3.5
	4	4.56	52	41	34	0.107	0.46	3.5
	6	3.03	44	52	44	0.100	0.70	3.5
	10	1.81	36	69	60	0.094	1.16	3.5
	16	1.14	26	89	80	0.090	1.86	3.5
	25	0.727	26	116	105	0.086	2.91	3.5
	35	0.524	22	138	130	0.083	4.07	3.5
	50	0.387	22	165	160	0.083	5.81	3.5