



### Feature

These low voltage cables are applied for indoor, outdoor 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

#### Armour

Double galvanized steel tape applied helically overlap.

#### Identification of cores

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

**Specification** : SPLN 43-3:1981 ; SNI 04-2700-1999  
(Other specifications are available upon request)

LOW VOLTAGE UNDERGROUND CABLE (PVC INSULATED,  
DOUBLE GALVANIZED STEEL TAPE ARMURED AND PVC SHEATHED)  
NYBY - Ø (I) 0.6/1 kV



PHYSICAL PROPERTIES

No. of core	Nominal cross section	Conductor		Insulation thickness	Approx. inner covering	Sheath thickness	Approx. overall diameter	Approx. cable weight	Standard length
		Construction	No. of wire						
	mm <sup>2</sup>			mm	mm	mm	mm	kg/km	m
2	6	re/rm	1/7	1.0	0.8	1.8	17.0	480	500/1000
	10	re/rm	1/7	1.0	0.8	1.8	20.0	700	500/1000
	16	re/rm	1/7	1.0	0.8	1.8	21.0	800	500
	25	rm	7	1.2	1.2	2.0	25.5	1,200	500
	35	rm	7	1.2	1.2	2.0	27.5	1,530	500
	50	rm/sm	19	1.4	1.2	2.0	32.0	2,000	500
	70	rm/sm	19	1.4	1.2	2.0	38.0	2,290	500
	95	rm/sm	19	1.6	1.2	2.0	39.0	3,380	500
	120	rm/sm	37	1.6	1.5	2.2	43.0	3,960	500
	150	rm/sm	37	1.8	1.5	2.2	47.0	4,490	500
	185	rm/sm	37	2.0	1.5	2.2	51.5	5,620	500
	240	rm/sm	61	2.2	1.8	2.6	59.0	7,360	250
	300	rm/sm	61	2.4	2.0	3.0	61.5	8,870	250
3	4	re/rm	1/7	1.0	0.8	1.8	18.0	500	500/1000
	6	re/rm	1/7	1.0	0.8	1.8	19.0	600	500/1000
	10	re/rm	1/7	1.0	0.8	1.8	21.0	800	500
	16	re/rm	1/7	1.0	1.2	1.8	23.0	1,150	500
	25	rm	7	1.2	1.2	2.0	27.0	1,550	500
	35	rm	7	1.2	1.2	2.0	30.0	1,950	500
	50	rm/sm	19	1.4	1.2	2.2	34.0	2,260	500
	70	rm/sm	19	1.4	1.2	2.2	39.0	2,860	500
	95	rm/sm	19	1.6	1.2	2.2	45.0	3,900	500
	120	rm/sm	37	1.6	1.8	2.2	49.0	4,900	500
	150	rm/sm	37	1.8	1.8	2.6	54.0	5,890	500
	185	rm/sm	37	2.0	1.8	2.6	59.0	7,100	500
	240	rm/sm	61	2.2	1.8	2.6	65.0	9,000	250
300	rm/sm	61	2.4	2.0	3.0	72.0	11,200	250	

LOW VOLTAGE UNDERGROUND CABLE (PVC INSULATED,  
DOUBLE GALVANIZED STEEL TAPE ARMoured AND PVC SHEATHED)  
NYBY - O (I) 0.6/1 kV



**ELECTRICAL PROPERTIES**

No. of core	Nominal cross section	Resistance at 20°C		Current carrying capacity in		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	kA	kV/5 min
2	6	3.08	44	52	44	0.70	3.5
	10	1.83	36	68	60	1.16	3.5
	16	1.15	26	89	80	1.86	3.5
	25	0.727	26	116	105	2.91	3.5
	35	0.524	22	138	130	4.07	3.5
	50	0.387	22	165	160	5.81	3.5
	70	0.268	19	205	200	8.14	3.5
	95	0.193	18	245	245	11.05	3.5
	120	0.153	16	280	285	13.95	3.5
	150	0.124	16	315	325	17.44	3.5
	185	0.0991	16	355	370	21.51	3.5
	240	0.0754	16	415	435	27.91	3.5
	300	0.0601	15	465	500	34.88	3.5
3	4	4.61	4.6100	41	34	0.46	3.5
	6	3.08	3.0800	52	44	0.70	3.5
	10	1.83	1.8300	68	60	1.16	3.5
	16	1.15	1.1500	89	80	1.86	3.5
	25	0.727	0.7270	116	105	2.91	3.5
	35	0.524	0.5240	138	130	4.07	3.5
	50	0.387	0.3870	165	160	5.81	3.5
	70	0.268	0.2680	205	200	8.14	3.5
	95	0.193	0.1930	245	245	11.05	3.5
	120	0.153	0.1530	280	285	13.95	3.5
	150	0.124	0.1240	315	325	17.44	3.5
	185	0.0991	0.0991	355	370	21.51	3.5
	240	0.0754	0.0754	415	435	27.91	3.5
300	0.0601	0.0601	465	500	34.88	3.5	

**LOW VOLTAGE UNDERGROUND CABLE (PVC INSULATED,  
DOUBLE GALVANIZED STEEL TAPE ARMoured AND PVC SHEATHED)  
NYBY - O (I) 0.6/1 kV**



**PHYSICAL PROPERTIES**

No. of core	Nominal cross section	Conductor		Insulation thickness	Approx. inner covering	Sheath thickness	Approx. overall diameter	Approx. cable weight	Standard length
		Construction	No. of wire						
	mm <sup>2</sup>			mm	mm	mm	mm	kg/km	m
4	2.5	re/rm	1/7	0.9	0.8	1.8	16.5	440	500/1000
	4	re/rm	1/7	1.0	0.8	1.8	18.0	550	500/1000
	6	re/rm	1/7	1.0	0.8	1.8	20.0	660	500/1000
	10	rm/rm	1/7	1.0	0.8	1.8	22.0	950	500
	16	rm	7	1.0	1.2	2.0	25.0	1,400	500
	25	rm	7	1.2	1.2	2.0	30.0	1,900	500
	35	rm	7	1.2	1.2	2.0	32.5	2,400	500
	50	rm/sm	19	1.4	1.5	2.2	39.0	2,950	500
	70	rm/sm	19	1.4	1.5	2.2	43.0	3,900	500
	95	rm/sm	19	1.6	1.5	2.2	48.0	5,050	500
	120	rm/sm	37	1.6	1.5	2.6	53.0	6,300	500
	150	rm/sm	37	1.8	1.8	2.6	59.0	7,650	500
	185	rm/sm	37	2.0	1.8	3.0	65.0	9,500	500
	240	rm/sm	61	2.2	2.0	3.0	73.0	11,500	250
300	rm/sm	61	2.4	2.2	3.4	78.0	14,950	250	
5	4	re/rm	1/7	1.0	0.8	1.8	20.0	635	500/1000
	6	re/rm	1/7	1.0	0.8	1.8	22.0	752	500/1000
	10	re/rm	1/7	1.0	1.2	1.8	25.0	1,148	500
	16	rm	7	1.0	1.2	2.0	28.0	1,596	500
	25	rm	7	1.2	1.2	2.0	33.0	2,245	500
	35	rm	7	1.2	1.2	2.2	36.0	2,795	500
	50	rm	19	1.4	1.2	2.2	41.0	3,856	500

**LOW VOLTAGE UNDERGROUND CABLE (PVC INSULATED,  
DOUBLE GALVANIZED STEEL TAPE ARMORED AND PVC SHEATHED)  
NYBY - O (I) 0.6/1 kV**



**ELECTRICAL PROPERTIES**

No. of core	Nom. cross section	Resistance at 20° C		Current carrying capacity in		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	kA	kV/5 min
4	2.5	7.41	57	32	25	0.29	3.5
	4	4.61	52	41	34	0.46	3.5
	6	3.08	44	52	44	0.70	3.5
	10	1.83	57	69	60	1.16	3.5
	16	1.15	52	89	80	1.86	3.5
	25	0.727	44	116	105	2.91	3.5
	35	0.524	57	138	130	4.07	3.5
	50	0.387	52	165	160	5.81	3.5
	70	0.268	44	205	200	8.14	3.5
	95	0.193	57	245	245	11.05	3.5
	120	0.153	52	280	285	13.95	3.5
	150	0.124	44	315	325	17.44	3.5
	185	0.0991	57	355	370	21.51	3.5
	240	0.0754	52	415	435	27.91	3.5
300	0.0601	44	465	500	34.88	3.5	
5	4	4.61	57	41	34	0.46	3.5
	6	3.08	52	52	44	0.70	3.5
	10	1.83	44	68	60	1.16	3.5
	16	1.15	57	89	80	1.86	3.5
	25	0.727	57	116	105	2.91	3.5
	35	0.524	52	138	130	4.07	3.5
	50	0.387	44	165	160	5.81	3.5