



Feature

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

CONSTRUCTION

Conductor

NYFGbY and **NYRGbY**

: Solid, stranded or sectoral shape annealed copper conductor.

NAYFGbY and **NAYRGbY**

: Solid, stranded or sectoral shape aluminium conductor.

Insulation

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

Inner Sheath

Extruded Black PVC Filler

Armour

NYFGbY and **NAYFGbY**

: Galvanized steel flat and wrapped with galvanized steel tape.

NYRGbY and **NAYRGbY**

: Galvanized steel wire and wrapped with galvanized steel tape.

Outer Sheath

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

Identification of cores

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

Specification : SPLN 43-2 :1981; SNI 04-2700-1999

(Other specifications are available upon request)

LOW VOLTAGE UNDERGROUND CABLE (PVC INSULATED,
GALVANIZED STEEL FLAT/WIRE ARMoured AND PVC SHEATHED)
NYFGbY & NYRGbY - O (I) 0.6/1 kV



PHYSICAL PROPERTIES

No. of core	Nominal cross section	Conductor		Insulation thickness	Sheath thickness	Approx. overall diameter	Approx. cable weight	Standard length
		Construction	Min. no. of wire					
	mm ²			mm	mm	mm	kg/km	m
2	1.5	re/rm	1/7	0.8	1.8	13.6	582	500
	2.5	re/rm	1/7	0.9	1.8	14.8	624	500
	4	re/rm	1/7	1.0	1.8	16.1	658	500
	6	re/rm	1/7	1.0	1.8	17.1	663	500
	10	re/rm	1/7	1.0	1.8	18.7	807	500
	16	re/rm	1/7	1.0	1.8	20.6	1,120	500
	25	rm	7	1.2	2.0/1.8	24.8	1,601	500
	35	rm	7	1.2	2.0/1.8	26.8	1,957	500
	50	rm/sm	19	1.4	2.2/2.0	31.0	2,473	500
	70	rm/sm	19	1.4	2.2/2.0	33.9	3,079	500
	95	rm/sm	19	1.6	2.2/2.0	37.8	3,971	500
	120	rm/sm	37	1.6	2.2/2.0	41.3	4,749	500
	150	rm/sm	37	1.8	2.6/2.2	44.8	5,807	500
	185	rm/sm	37	2.0	2.6/2.2	49.5	6,319	500
	240	rm/sm	61	2.2	3.0/2.6	56.2	8,915	500
	300	rm/sm	61	2.4	3.4/3.0	62.5	9,928	250
3	1.5	re/rm	1/7	0.8	1.8	14.0	597	500
	2.5	re/rm	1/7	0.9	1.8	15.3	649	500
	4	re/rm	1/7	1.0	1.8	16.8	667	500
	6	re/rm	1/7	1.0	1.8	17.9	742	500
	10	re/rm	1/7	1.0	1.8	19.6	957	500
	16	re/rm	1/7	1.0	1.8	21.6	1,413	500
	25	rm	7	1.2	2.0	26.5	1,923	500
	35	rm	7	1.2	2.0	30.8	2,372	500
	50	rm/sm	19	1.4	2.0	33.0	2,670	500
	70	rm/sm	19	1.4	2.0	36.4	3,510	500
	95	rm/sm	19	1.6	2.2	41.0	4,417	500
	120	rm/sm	37	1.6	2.2	44.5	5,248	500
	150	rm/sm	37	1.8	2.2	48.7	6,556	250
	185	rm/sm	37	2.0	2.6	53.7	7,976	250
	240	rm/sm	61	2.2	3.0	60.2	9,713	250
	300	rm/sm	61	2.4	3.0	65.9	11,607	250

**LOW VOLTAGE UNDERGROUND CABLE (PVC INSULATED,
GALVANIZED STEEL FLAT/WIRE ARMoured AND PVC SHEETHED)
NYFGbY & NYRGbY - O (I) 0.6/1 kV**



ELECTRICAL PROPERTIES

No. of core	Nominal cross section	Resistance at 20°C		Current carrying capacity		Short circuit current at 1 sec	AC voltage test
		Conductor	Insulation	Ground 30°C	Air 30°C		
	mm ²	ohm/km	M.ohm.km	A	A	kA	kV/5 min
2	1.5	12.10	62	27	21	0.17	3.5
	2.5	7.28	57	36	29	0.29	3.5
	4	4.56	52	47	38	0.46	3.5
	6	3.03	44	59	48	0.70	3.5
	10	1.81	36	78	66	1.16	3.5
	16	1.14	26	102	90	1.86	3.5
	25	0.727	26	134	120	2.91	3.5
	35	0.524	22	160	150	4.07	3.5
	50	0.387	22	187	180	5.81	3.5
	70	0.268	19	230	230	8.14	3.5
	95	0.193	18	280	275	11.05	3.5
	120	0.153	16	320	320	13.95	3.5
	150	0.124	16	355	375	17.44	3.5
	185	0.0991	16	409	430	21.51	3.5
	240	0.0754	16	472	510	27.91	3.5
300	0.0601	15	525	590	34.88	3.5	
3	1.5	12.10	62	24	18	0.17	3.5
	2.5	7.28	57	32	25	0.29	3.5
	4	4.56	52	41	34	0.46	3.5
	6	3.03	44	52	44	0.70	3.5
	10	1.81	36	69	60	1.16	3.5
	16	1.14	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	

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No. of core	Nominal cross section	Conductor		Insulation thickness	Sheath thickness	Approx. overall diameter	Approx. cable weight	Standard length
		Construction	Min. no. of wire					
	mm ²			mm	mm	mm	kg/km	m
4	1.5	re/rm	1/7	0.8	1.8	14.7	607	500
	2.5	re/rm	1/7	0.9	1.8	16.3	667	500
	4	re/rm	1/7	1.0	1.8	17.9	697	500
	6	re/rm	1/7	1.0	1.8	19.1	786	500
	10	re/rm	1/7	1.0	1.8	21.0	1,026	500
	16	re/rm	1/7	1.0	1.8	24.5	1,573	500
	25	rm	7	1.0	2.0	28.6	2,217	500
	35	rm/sm	7	1.2	2.0	31.1	2,858	500
	50	rm/sm	19	1.4	2.0	36.0	3,311	500
	70	rm/sm	19	1.4	2.0	39.5	4,041	500
	95	rm/sm	19	1.6	2.2	44.7	5,159	500
	120	rm/sm	37	1.6	2.6	49.6	6,354	500
	150	rm/sm	37	1.8	3.0/2.6	54.4	7,548	250
	185	rm/sm	37	2.0	3.0/2.6	59.3	9,192	250
	240	rm/sm	61	2.2	3.4/3.0	66.6	12,601	250
	300	rm/sm	61	2.4	3.8/3.4	73.8	15,379	250
5	1.5	re/rm	1/7	0.8	1.8	15.8	621	500
	2.5	re/rm	1/7	0.9	1.8	17.4	687	500
	4	re/rm	1/7	1.0	1.8	19.1	775	500
	6	re/rm	1/7	1.0	1.8	20.5	989	500
	10	re/rm	1/7	1.0	2.0	22.6	1,317	500
	16	re/rm	1/7	1.0	2.0	26.3	1,850	500
	25	rm	7	1.0	2.0	30.8	2,638	500
	35	rm	7	1.2	2.0	32.9	3,150	500
	50	rm	19	1.4	2.2	37.8	4,474	500

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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 ²	ohm/km	M.ohm.km	A	A	kA	kV/5 min
4	1.5	12.10	62	24	18	0.17	3.5
	2.5	7.28	57	32	25	0.29	3.5
	4	4.56	52	41	34	0.46	3.5
	6	3.03	44	52	44	0.70	3.5
	10	1.81	36	69	60	1.16	3.5
	16	1.14	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	35
	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	
5	1.5	12.10	62	24	18	0.17	3.5
	2.5 ²	7.28	57	32	25	0.29	3.5
	4	4.56	52	41	34	0.46	3.5
	6	3.03	44	52	44	0.70	3.5
	10	1.81	36	69	60	1.16	3.5
	16	1.14	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