LOW VOLTAGE ARMOURED CABLE

Type : NYFGbY - 0.6/1 kV

SNI IEC 60502-1:2009 (SPLN 43-2:1994)

(Copper Conductor , PVC Insulated, Galvanized Flat Steel Wire Armoured and PVC Sheathed)

DIMENSIONAL & MECHANICAL DATA

Number of Cores	Size	Conductor		Insulation Thickness	Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight	Standard Reel Length
		Shape	No.of Wire					
-	mm^2	-	-	mm	mm	mm	kg/km	m
2	16	re(rm)	1 (7)	1.0	1.8	21.8	1,089	1000
	25	rm	7	1.2	2.0	26.3	1,555	1000
	35	rm	7	1.2	2.0	28.7	1,897	1000
	50	sm	19	1.4	2.0	29.4	2,391	1000
	70	sm	19	1.4	2.2	35.6	2,952	1000
	95	sm	19	1.6	2.2	40.1	3,814	1000
	120	sm	37	1.6	2.2	43.3	4,565	1000
	150	sm	37	1.8	2.6	48.2	5,584	500
3	16	re(rm)	1 (7)	1.0	1.8	24.0	1,361	1000
	25	rm	7	1.2	2.0	27.5	1,857	1000
	35	rm	7	1.2	2.0	29.9	2,290	1000
	50	sm	19	1.4	2.0	30.4	2,563	1000
	70	sm	19	1.4	2.0	34.0	3,356	1000
	95	sm	19	1.6	2.2	38.0	4,280	1000
	120	sm	37	1.6	2.2	40.7	5,095	500
	150	sm	37	1.8	2.2	45.4	6,291	500
	185	sm	37	2.0	2.6	49.4	7,619	500
	240	sm	61	2.2	3.0	54.6	9,333	500
	300	sm	61	2.4	3.0	58.5	11,206	300

ELECTRICAL DATA

Number of Cores	Size	Max. DC Resistance at 20°C		Current Carrying Capacity		Short Circuit Current at 1 sec
		Conductor	Insulation	In Ground 30°C	In Air 30°C	
-	mm^2	Ohm/km	M.Ohm.km	A	A	kA
2	16	1.15	26	102	90	1.86
	25	0.727	26	134	120	2.91
	35	0.524	22	160	150	4.07
	50	0.387	22	187	180	5.81
	70	0.268	19	230	230	8.14
	95	0.193	18	280	275	11.05
	120	0.153	16	320	320	13.95
	150	0.124	16	355	375	17.44
3	16	1.15	26	89	80	1.86
	25	0.727	26	116	105	2.91
	35	0.524	22	138	130	4.07
	50	0.387	22	165	160	5.81
	70	0.268	19	205	200	8.14
	95	0.193	18	245	245	11.05
	120	0.153	16	280	285	13.95
	150	0.124	16	320	325	17.44
	185	0.0991	16	355	370	21.51
	240	0.0754	16	415	435	27.91
	300	0.0601	16	465	500	34.88

LOW VOLTAGE ARMOURED CABLE

Type : NYFGbY – 0.6/1 kV

SNI IEC 60502-1:2009 (SPLN 43-2:1994)

(Copper Conductor , PVC Insulated, Galvanized Flat Steel Wire Armoured and PVC Sheathed)

DIMENSIONAL & MECHANICAL DATA

Number of Cores	Size	Conductor		Insulation Thickness	Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight	Standard Reel Length
		Shape	No.of Wire					
-	mm^2	-	-	mm	mm	mm	kg/km	m
3 + Ground	50+25	sm(rm)	19/7	1.4/1.2	2.0	34	2,847	1000
	70+35	sm(rm)	19/7	1.4/1.2	2.1	38	3,746	1000
	95+50	sm(rm)	19/19	1.6/1.4	2.2	42	4,848	1000
	120+70	sm(rm)	37/19	1.6/1.4	2.3	46	5,971	500
	150+70	sm(rm)	37/19	1.8/1.4	2.5	51	7,061	500
	185+95	sm(rm)	37/19	2.0/1.6	2.6	55	8,584	500
	240+120	sm(rm)	37/37	2.2/1.6	2.8	62	10,927	300
	300+150	sm(rm)	37/37	2.4/1.8	3.0	68	13,340	300
4	16	re(rm)	1 (7)	1.0	1.8	25.9	1,637	1000
	25	rm	7	1.2	2.0	30.0	2,245	1000
	35	rm	7 (19)	1.2	2.0	32.9	2,781	1000
	50	sm	19	1.4	2.0	33.1	2,992	1000
	70	sm	19	1.4	2.0	36.1	3,896	1000
	95	sm	19	1.6	2.2	41.0	5,463	500
	120	sm	37	1.6	2.6	43.9	6,138	500
	150	sm	37	1.8	2.6	48.8	7,451	500
	185	sm	37	2.0	2.6	52.7	9,124	500
	240	sm	37	2.2	3.0	59.8	12,108	300
	300	sm	61	2.4	3.8	68.3	14,720	300
5	16	re(rm)	1 (7)	1.0	2.0	28.1	1,851	1000
	25	rm	7	1.2	2.0	32.4	2,640	1000
	35	rm	7 (19)	1.2	2.0	36.3	3,190	1000
	50	rm	19	1.4	2.2	41.2	4,293	1000

ELECTRICAL DATA

Number of Cores	Size	Max. DC Resistance at 20°C		Current Carrying Capacity		Short Circuit Current at 1 sec
		Conductor	Insulation	In Ground 30°C	In Air 30°C	
-	mm^2	Ohm/km	M.Ohm.km	A	A	kA
3 + Ground	50+25	0.387/0.727	30	163	158	5.87
	70+35	0.268/0.524	30	203	198	8.19
	95+50	0.193/0.387	30	242	242	11.09
	120+70	0.153/0.268	30	282	282	13.98
	150+70	0.124/0.268	20	312	322	17.46
	185+95	0.0991/0.193	20	351	366	21.50
	240+120	0.0754/0.153	20	411	430	27.86
	300+150	0.0601/0.124	20	460	495	34.79
4	16	1.15	26	89	80	1.86
	25	0.727	26	116	105	2.91
	35	0.524	22	138	130	4.07
	50	0.387	22	165	160	5.81
	70	0.268	19	205	200	8.14
	95	0.193	18	245	245	11.05
	120	0.153	16	280	285	13.95
	150	0.124	16	315	325	17.44
	185	0.0991	16	355	370	21.51
	240	0.0754	16	415	435	27.91
	300	0.0601	15	465	500	34.88
5	16	1.15	26	89	80	1.86
	25	0.727	26	116	105	2.91
	35	0.524	22	138	130	4.07
	50	0.387	22	165	160	5.81

LOW VOLTAGE ARMOURED CABLE (CONTROL CABLE)

Type : NYFGbY – 0.6/1 kV

SNI IEC 60502-1:2009 (SPLN 43-2:1994)

(Copper Conductor , PVC Insulated, Galvanized Flat Steel Wire Armoured and PVC Sheathed)

DIMENSIONAL & MECHANICAL DATA

Number of Cores	Size	Conductor		Insulation Thickness	Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight	Standard Reel Length
		Shape	No.of Wire					
-	mm^2	-	-	mm	mm	mm	kg/km	m
7	1.5	re(rm)	1 (7)	0.8	1.8	16.7	615	500
8	1.5	re(rm)	1 (7)	0.8	1.8	18.6	686	500
10	1.5	re(rm)	1 (7)	0.8	1.8	18.6	758	500
12	1.5	re(rm)	1 (7)	0.8	1.8	19.6	814	500
14	1.5	re(rm)	1 (7)	0.8	1.8	20.6	889	500
16	1.5	re(rm)	1 (7)	0.8	1.8	20.6	919	500
19	1.5	re(rm)	1 (7)	0.8	1.8	21.6	1,174	500
21	1.5	re(rm)	1 (7)	0.8	2.0	25.5	1,169	500
24	1.5	re(rm)	1 (7)	0.8	2.0	25.5	1,237	500
30	1.5	re(rm)	1 (7)	0.8	2.0	26.5	1,401	500
40	1.5	re(rm)	1 (7)	0.8	2.0	31.4	1,802	500
52	1.5	re(rm)	1 (7)	0.8	2.0	32.4	2,092	500
61	1.5	re(rm)	1 (7)	0.8	2.0	34.3	2,391	500
7	2.5	re(rm)	1 (7)	0.9	1.8	17.6	749	500
8	2.5	re(rm)	1 (7)	0.9	1.8	21.6	879	500
10	2.5	re(rm)	1 (7)	0.9	1.8	21.6	995	500
12	2.5	re(rm)	1 (7)	0.9	1.8	21.6	1,014	500
14	2.5	re(rm)	1 (7)	0.9	1.8	23.5	1,100	500
16	2.5	re(rm)	1 (7)	0.9	2.0	24.5	1,280	500
19	2.5	re(rm)	1 (7)	0.9	2.0	25.5	1,377	500
21	2.5	re(rm)	1 (7)	0.9	2.0	29.4	1,560	500
24	2.5	re(rm)	1 (7)	0.9	2.0	29.4	1,657	500
30	2.5	re(rm)	1 (7)	0.9	2.0	30.4	1,932	500
40	2.5	re(rm)	1 (7)	0.9	2.2	37.3	2,874	500
52	2.5	re(rm)	1 (7)	0.9	2.2	38.2	2,957	500
61	2.5	re(rm)	1 (7)	0.9	2.6	40.2	3,324	500

ELECTRICAL DATA

Number of Cores	Size	Max. DC Resistance at 20°C		Current Carrying Capacity		Short Circuit Current at 1 sec
		Conductor	Insulation	In Ground 30°C	In Air 30°C	
-	mm^2	Ohm/km	M.Ohm.km	A	A	kA
7	1.5	12.1	63	14	10	0.17
8	1.5	12.1	63	14	10	0.17
10	1.5	12.1	63	12	9	0.17
12	1.5	12.1	63	12	9	0.17
14	1.5	12.1	63	10	8	0.17
16	1.5	12.1	63	10	8	0.17
19	1.5	12.1	63	9	7	0.17
21	1.5	12.1	63	9	7	0.17
24	1.5	12.1	63	8	6	0.17
30	1.5	12.1	63	8	6	0.17
40	1.5	12.1	63	7	5	0.17
52	1.5	12.1	63	7	5	0.17
61	1.5	12.1	63	6	4	0.17
7	2.5	7.41	57	19	16	0.29
8	2.5	7.41	57	19	16	0.29
10	2.5	7.41	57	16	13	0.29
12	2.5	7.41	57	16	13	0.29
14	2.5	7.41	57	14	12	0.29
16	2.5	7.41	57	14	12	0.29
19	2.5	7.41	57	12	11	0.29
21	2.5	7.41	57	12	11	0.29
24	2.5	7.41	57	11	10	0.29
30	2.5	7.41	57	11	10	0.29
40	2.5	7.41	57	9	8	0.29
52	2.5	7.41	57	9	8	0.29
61	2.5	7.41	57	8	7	0.29

LOW VOLTAGE ARMOURED CABLE (CONTROL CABLE)

Type : NYFGbY – 0.6/1 kV

SNI IEC 60502-1:2009 (SPLN 43-2:1994)

(Copper Conductor , PVC Insulated, Galvanized Flat Steel Wire Armoured and PVC Sheathed)

DIMENSIONAL & MECHANICAL DATA

Number of Cores	Size	Conductor		Insulation Thickness	Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight	Standard Reel Length
		Shape	No.of Wire					
-	mm^2	-	-	mm	mm	mm	kg/km	m
7	4	re(rm)	1 (7)	1.0	1.8	19.6	964	500
8	4	re(rm)	1 (7)	1.0	2.0	24.5	1,179	500
10	4	re(rm)	1 (7)	1.0	2.0	24.5	1,237	500
12	4	re(rm)	1 (7)	1.0	2.0	25.5	1,348	500
14	4	re(rm)	1 (7)	1.0	2.0	26.5	1,488	500
16	4	re(rm)	1 (7)	1.0	2.0	27.5	1,657	500
19	4	re(rm)	1 (7)	1.0	2.0	29.4	1,831	500
21	4	re(rm)	1 (7)	1.0	2.0	33.3	2,097	500
24	4	re(rm)	1 (7)	1.0	2.0	33.3	2,246	500
30	4	re(rm)	1 (7)	1.0	2.2	35.3	2,657	500
40	4	re(rm)	1 (7)	1.0	2.2	42.2	3,430	300
52	4	re(rm)	1 (7)	1.0	2.2	44.1	4,106	300
61	4	re(rm)	1 (7)	1.0	2.2	47.0	4,739	300
7	6	re(rm)	1 (7)	1.0	2.0	21.6	1,049	500
8	6	re(rm)	1 (7)	1.0	2.0	26.5	1,413	500
10	6	re(rm)	1 (7)	1.0	2.0	26.5	1,502	500
12	6	re(rm)	1 (7)	1.0	2.0	27.5	1,686	500
14	6	re(rm)	1 (7)	1.0	2.0	28.4	1,870	500
16	6	re(rm)	1 (7)	1.0	2.0	30.4	2,053	500
19	6	re(rm)	1 (7)	1.0	2.0	31.4	2,300	500
21	6	re(rm)	1 (7)	1.0	2.2	37.3	2,691	500
24	6	re(rm)	1 (7)	1.0	2.2	37.3	2,899	500
30	6	re(rm)	1 (7)	1.0	2.2	38.2	3,372	500
40	6	re(rm)	1 (7)	1.0	2.6	47.0	4,512	300
52	6	re(rm)	1 (7)	1.0	2.6	49.0	5,430	300
61	6	re(rm)	1 (7)	1.0	2.6	52.0	6,174	300

ELECTRICAL DATA

Number of Cores	Size	Max. DC Resistance at 20°C		Current Carrying Capacity		Short Circuit Current at 1 sec
		Conductor	Insulation	In Ground 30°C	In Air 30°C	
-	mm^2	Ohm/km	M.Ohm.km	A	A	kA
7	4	4.61	52	24	22	0.46
8	4	4.61	52	24	22	0.46
10	4	4.61	52	20	18	0.46
12	4	4.61	52	20	18	0.46
14	4	4.61	52	18	17	0.46
16	4	4.61	52	18	17	0.46
19	4	4.61	52	16	15	0.46
21	4	4.61	52	16	15	0.46
24	4	4.61	52	14	13	0.46
30	4	4.61	52	14	13	0.46
40	4	4.61	52	12	11	0.46
52	4	4.61	52	12	11	0.46
61	4	4.61	52	10	10	0.46
7	6	3.08	45	31	28	0.70
8	6	3.08	45	31	28	0.70
10	6	3.08	45	26	24	0.70
12	6	3.08	45	26	24	0.70
14	6	3.08	45	23	22	0.70
16	6	3.08	45	23	22	0.70
19	6	3.08	45	20	19	0.70
21	6	3.08	45	20	19	0.70
24	6	3.08	45	18	17	0.70
30	6	3.08	45	18	17	0.70
40	6	3.08	45	15	15	0.70
52	6	3.08	45	15	15	0.70
61	6	3.08	45	13	13	0.70

MEDIUM VOLTAGE ARMOURED CABLE

Type : NYFGbY – 3.5/6 kV

VDE.0271

(Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire Armoured and PVC Sheathed)

DIMENSIONAL & MECHANICAL DATA

Number of Cores	Size	Conductor		Insulation Thickness	Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight	Standard Reel Length
		Shape	No.of Wire					
-	mm^2	-	-	mm	mm	mm	kg/km	m
3	25	rm	7	3.4	2.2	37.3	2,648	1000
	35	rm	19	3.4	2.2	41.2	3,205	1000
	50	sm	19	3.4	2.2	42.2	3,313	1000
	70	sm	19	3.4	2.6	44.9	4,214	1000
	95	sm	19	3.4	2.6	48.8	5,101	500
	120	sm	37	3.4	2.6	50.7	5,959	500
	150	sm	37	3.4	2.6	53.7	6,951	500
	185	sm	37	3.4	3.0	58.5	8,275	500
	240	sm	61	3.4	3.0	63.4	10,097	300

ELECTRICAL DATA

Number of Cores	Size	Max. DC Resistance at 20°C		Current Carrying Capacity		Approx. Reactance per-Conductor	Short Circuit Current at 1 sec
		Conductor	Insulation	In Ground 30°C	In Air 30°C		
-	mm^2	Ohm/km	M.Ohm.km	A	A	Ohm/km	kA
3	25	0.727	62	111	110	0.115	2.91
	35	0.524	55	134	135	0.110	4.07
	50	0.387	55	156	165	0.104	5.81
	70	0.268	48	196	205	0.099	8.14
	95	0.193	42	231	250	0.097	11.05
	120	0.153	38	263	285	0.094	13.95
	150	0.124	35	298	325	0.091	17.44
	185	0.0991	32	329	370	0.090	21.51
	240	0.0754	28	378	430	0.088	27.91