

NYA - 450/750 VOLT

SPLN 42-1 / IEC 60227-3

SINGLE CORE , COPPER CONDUCTOR AND PVC INSULATED CABLE

DIMENSIONAL & MECHANICAL DATA

Nominal cross-sectional area	No of wire and conductor shape		Nominal insulation thickness	Approximately		Bending Diameter, min	Standard delivery length
				Overall diameter	Net Weight		
mm ²	pcs	-	mm	mm	Kg/Km	mm	m
1.5	1	re	0.7	2.9	20	80	100/Coil
1.5	7	rm	0.7	3.0	21	90	100/Coil
2.5	1	re	0.8	3.5	32	100	100/Coil
2.5	7	rm	0.8	3.7	34	110	100/Coil
4	1	re	0.8	3.9	47	120	100/Coil
4	7	rm	0.8	4.3	51	140	100/Coil
6	1	re	0.8	4.4	67	140	100/Coil
6	7	rm	0.8	4.8	71	160	100/Coil
10	1	re	1.0	5.7	111	180	100/Coil
10	7	rm	1.0	6.2	119	210	100/Coil
16	7	rm	1.0	7.3	179	250	100/Coil
25	7	rm	1.2	9.0	281	310	1,000/drum
35	7	rm	1.2	10.2	379	360	1,000/drum
50	19	rm	1.4	11.9	507	420	1,000/drum
70	19	rm	1.4	13.8	713	490	1,000/drum
95	19	rm	1.6	16.1	985	580	1,000/drum
120	37	rm	1.6	17.7	1,222	640	1,000/drum
150	37	rm	1.8	19.7	154	710	1,000/drum
185	37	rm	2.0	22.0	1,885	800	1,000/drum
240	61	rm	2.2	25.3	2,465	920	1,000/drum
300	61	rm	2.4	28.2	3,083	1,030	1,000/drum
400	61	rm	2.6	31.6	3,926	1,160	1,000/drum

ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min	In Pipe	In Air	
mm ²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	11	15	24	0.19
2.5	7.41	10	20	32	0.32
4	4.61	8	25	43	0.50
6	3.08	7	33	54	0.73
10	1.83	7	45	74	1.20
16	1.15	5	61	98	1.91
25	0.727	5	83	140	2.96
35	0.524	5	104	159	4.13
50	0.387	5	132	197	5.87
70	0.268	4	166	247	8.19
95	0.193	4	198	293	11.09
120	0.153	3	236	345	13.98
150	0.124	3	-	391	17.46
185	0.0991	3	-	449	21.50
240	0.0754	3	-	529	27.86
300	0.0601	3	-	609	34.79
400	0.0470	3	-	724	46.34