

THERMO PLASTIC BUILDING WIRE

Type : NYA - 450/750 V

SNI 04-6629.3-2006 (SPLN 42-1:1991)

(Copper Conductor and PVC Insulated)

DIMENSIONAL & MECHANICAL DATA

Size	Conductor		Jacket Thickness	Approx. Overall Diameter	Approx. Net Weight	Standard Reel Length
	Shape	No. of wire				
mm ²	-	-	mm	mm	kg/km	m
1	re (rm)	1 (7)	0.7	2.7	14	100
1.5	re (rm)	1 (7)	0.7	3.2	18	100
2.5	re (rm)	1 (7)	0.8	3.8	29	100
4	re (rm)	1 (7)	0.8	4.3	45	100
6	re (rm)	1 (7)	0.8	4.8	65	100
10	re (rm)	1 (7)	1.0	6.3	108	100
16	rm	7	1.0	7.8	175	1000
25	rm	7	1.2	9.4	273	1000
35	rm	7 (19)	1.2	10.7	367	1000
50	rm	19	1.4	12.7	523	1000
70	rm	19	1.4	14.7	692	1000
95	rm	19	1.6	17.2	962	1000
120	rm	37	1.6	18.7	1195	1000
150	rm	37	1.8	20.7	1496	1000
185	rm	37	2.0	23.3	1844	1000
240	rm	61	2.2	26.3	2430	1000
300	rm	61	2.4	28.9	3015	1000
400	rm	61	2.6	32.8	3863	1000
500	rm	61	3.0	36.5	4853	1000

ELECTRICAL DATA

Size	Max. DC Resistance at 20°C		Current Carrying Capacity		Reactance		Short Circuit Current at 1 sec
	Conductor	Insulation	In Pipe	In Air	per Conductor		
			30°C	30°C	Ohm/km		
mm ²	Ohm/km	M. Ohm.km	A	A	oo	ooo	kA
1	18.1	51	12	18	-	-	0.12
1.5	12.1	51	15	24	-	-	0.17
2.5	7.41	48	20	32	-	-	0.29
4	4.61	44	25	43	-	-	0.46
6	3.08	37	33	54	-	-	0.70
10	1.83	36	45	74	-	-	1.16
16	1.15	26	61	98	0.088	0.24	1.86
25	0.727	26	83	140	0.085	0.23	2.91
35	0.524	22	104	159	0.082	0.22	4.07
50	0.387	22	132	197	0.082	0.21	5.81
70	0.268	19	166	247	0.082	0.20	8.14
95	0.193	18	198	293	0.082	0.19	11.05
120	0.153	16	236	345	0.078	0.19	13.95
150	0.124	16	-	391	0.078	0.18	17.44
185	0.0991	16	-	448	0.078	0.18	21.51
240	0.0754	16	-	529	0.075	0.17	27.91
300	0.0601	15	-	609	0.075	0.17	34.88
400	0.0470	14	-	724	0.075	0.16	46.51
500	0.0366	15	-	828	0.075	0.16	58.14