

# NYAF

## THERMOPLASTIC BUILDING WIRE (COPPER CONDUCTOR, PVC INSULATED)



**Type of Cable** : NYAF  
**Rated Voltage** : 450/750 Volt  
**Size Range** : 1.5 mm<sup>2</sup> ... 240 mm<sup>2</sup>  
**Specification** : SPLN 42-3 : 1992  
 SNI 04-3236-1992  
 IEC. 60227-3 IEC. 02

**Application** : Permanent instalation  
 in conduit or exposed wiring  
 in dry location

**Identification of Cores**  
 Green-yellow  
 Black  
 Yellow  
 Light-blue  
 Red

Others colour are available on request

**Construction :**  
 1. Flexible Copper Conductor  
 2. PVC Insulated

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### CONSTRUCTION

Size mm <sup>2</sup>	Conductor		Insulation Thickness mm	Approx Overall Diameter mm	Approx Net. Weight Kg/Km	Standard Length m	Packing
	Construction	No. of Wire					
1.5	f	0.26	0.7	3.5	22	100	Coil
2.5	f	0.26	0.8	4.2	35	100	Coil
4	f	0.31	0.8	4.8	49	100	Coil
6	f	0.31	0.8	6.3	71	100	Coil
10	f	0.41	1.0	7.6	113	100	Coil
16	f	0.41	1.0	8.8	182	100	Coil
25	f	0.41	1.2	11.0	284	1000	Drum
35	f	0.41	1.2	12.5	388	1000	Drum
50	f	0.41	1.4	14.5	540	1000	Drum
70	f	0.51	1.4	17.0	735	1000	Drum
95	f	0.51	1.6	19.0	1014	1000	Drum
120	f	0.51	1.6	21.0	1236	500	Drum
150	f	0.51	1.8	23.5	1542	500	Drum
185	f	0.51	2.0	26.5	1870	500	Drum
240	f	0.51	2.2	29.5	2410	500	Drum

### CHARACTERISTICS

Size mm <sup>2</sup>	Resistance at 20°C		Current Carrying Capacity at 30°C		Short Circuit Current at 1 sec. KA	AC Voltage Test KV / 5 min
	Conductor Ohm / km	Insulation M.Ohm.km	In Pipe Amper	In Air Amper		
1.5	13.3	50	15	24	0.17	2.5
2.5	7.98	50	20	32	0.29	2.5
4	4.95	50	25	41	0.46	2.5
6	3.30	40	33	53	0.70	2.5
10	1.91	30	45	72	1.16	2.5
16	1.21	30	60	97	1.86	2.5
25	0.78	30	82	128	2.91	2.5
35	0.554	20	102	156	4.07	2.5
50	0.386	20	131	195	5.81	2.5
70	0.272	20	164	243	8.14	2.5
95	0.206	20	205	287	11.05	2.5
120	0.161	20	233	342	13.95	2.5
150	0.129	20	-	386	17.44	2.5
185	0.106	20	-	441	21.51	2.5
240	0.0801	20	-	520	27.91	2.5

Note\* : If site condition are different ratings should be multiplied by rating factors as show in table page 78-83