

# NYA 1.5 - 400 mm<sup>2</sup> 450/750 V

## Cu / PVC

(Copper Conductor, PVC Insulated)

Standard Specification : SPLN 42-1

### Construction Data

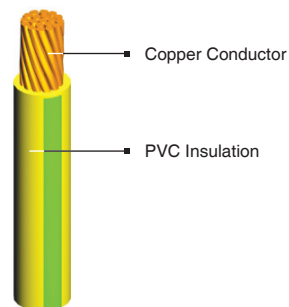
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	3.1	22
2.5	3.7	34
4	4.3	50
6	4.8	70
10	6.2	117
16	7.2	173
25	9.0	277
35	10.1	369
50	12.1	513
70	13.8	709
95	16.0	958
120	17.6	1,183
150	19.5	1,448
185	22.0	1,835
240	25.5	2,413
300	28.0	2,958
400	31.5	3,782

#### Application :

For building wire installed in conduit in dry location and interwiring in switch board and control panel.

#### Special Features on Request :

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Nylon Coated



#### Note :

##### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 - 400 sqmm supplied in non compacted circular stranded (rm) conductor shape

##### Standard Packing

1.5 - 16 sqmm supplied in coil @ 100 m

25 - 400 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Insulation	Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec (kA)
	DC Resistance at 20°C	AC Resistance at 70°C	Insulation Resistance at 70°C		Capacity		
					in pipe	in air	
Max. (Ω/km)	Max. (Ω/km)	Min. (M.Ω.km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.0100	0.320	15	24	0.17
2.5	7.41	8.866	0.0090	0.309	19	32	0.29
4	4.61	5.516	0.0077	0.290	25	42	0.46
6	3.08	3.685	0.0065	0.276	33	54	0.69
10	1.83	2.190	0.0065	0.274	45	73	1.15
16	1.15	1.376	0.0050	0.260	61	98	1.84
25	0.727	0.870	0.0050	0.257	83	129	2.88
35	0.524	0.627	0.0040	0.249	103	158	4.03
50	0.387	0.464	0.0045	0.248	132	197	5.75
70	0.268	0.321	0.0035	0.240	165	245	8.05
95	0.193	0.232	0.0035	0.239	207	290	10.93
120	0.153	0.184	0.0032	0.235	235	345	13.80
150	0.124	0.150	0.0032	0.235	-	390	17.25
185	0.0991	0.121	0.0032	0.235	-	445	21.28
240	0.0754	0.093	0.0032	0.233	-	525	27.60
300	0.0601	0.075	0.0030	0.232	-	605	34.50
400	0.0470	0.060	0.0028	0.231	-	725	41.20