

NYY 1 x (1.5-800) mm² 0.6/1 kV

CU / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009, IEC 60502-1 : 2004 / AMD1 : 2009

Construction Data

Nom. Cross Section Area	Overall Diameter approx.	Cable Weight approx.
mm ²	mm	kg/km
1.5	6.1	53
2.5	6.6	67
4	7.6	94
6	8.1	117
10	9.1	166
16	10.1	229
25	11.9	345
35	13.0	444
50	15.0	600
70	16.9	815
95	19.1	1,079
120	21.0	1,325
150	23.0	1,604
185	25.5	2,020
240	29.0	2,636
300	32.0	3,219
400	35.5	4,087
500	39.5	5,213
630	44.0	6,712
800	48.5	8,368

Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request :

- Tin Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated

Note :

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm)
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Tin Coated Copper Conductor

Electrical properties for tin coated copper conductor will be submitted upon request

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m
16 - 300 sqmm supplied in wooden drum @ 1000 m
400 - 800 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%



Electrical Data

Conductor			Inductance		Current - Carrying Capacity at 30° C				Short circuit current at 1 sec
Nom. Cross Sect.	DC Resistance @ 20°C	AC Resistance @ 70°C	Trefoil formation 	Flat Formation*) 					
					in air	in ground	in air	in ground	
(mm²)	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)
1.5	12.1	14.478	0.459	0.725	20	26	27	29	0.17
2.5	7.41	8.866	0.423	0.689	27	34	36	38	0.29
4	4.61	5.516	0.404	0.670	36	45	48	49	0.46
6	3.08	3.685	0.380	0.646	46	56	61	61	0.69
10	1.83	2.190	0.350	0.616	63	75	83	82	1.15
16	1.15	1.376	0.326	0.592	84	97	110	106	1.84
25	0.73	0.870	0.313	0.579	113	125	146	137	2.88
35	0.524	0.627	0.300	0.566	139	150	180	164	4.03
50	0.387	0.464	0.292	0.558	170	178	219	195	5.75
70	0.268	0.321	0.279	0.545	216	218	277	240	8.05
95	0.193	0.232	0.275	0.541	268	261	341	288	10.93
120	0.153	0.184	0.267	0.533	313	298	397	329	13.80
150	0.124	0.150	0.266	0.532	361	334	455	370	17.25
185	0.099	0.121	0.265	0.531	417	377	524	419	21.28
240	0.0754	0.093	0.261	0.527	499	437	626	489	27.60
300	0.0601	0.075	0.259	0.525	574	492	721	554	34.50
400	0.0470	0.061	0.256	0.522	668	557	842	635	41.20
500	0.0386	0.049	0.252	0.518	774	628	984	728	51.50
630	0.0283	0.041	0.247	0.513	892	703	1155	835	64.89
800	0.0221	0.035	0.242	0.508	1008	775	1333	945	82.40

* Flat Formation spacing 2 times overall diameter of cable

** Further information about rating factor for certain cable arrangement can be found on supplementary technical information

