NYSY

Cu / PVC / CTS / PVC 600 / 1000 V

FIRSTCABLE

Construction

- Annealed Bare Copper Conductor
- Extruded PVC Insulated
- PVC Inner Sheath
- Copper Tape Screen
- PVC Outer Sheath, black colour
- Flame Retardancy : IEC-60332-1
- Standard : IEC-60502-1 : 2009

(other specifications are available on request : tinned copper conductor, flame retardancy to IEC 60332-cat.A/B/C, low smoke halogen free, heat resistant, oil resistant, hydrocarbon resistant, anti termite, anti rodent)

Application

- Use as power cable, installed indoor, outdoor and direct burial.

Construction and Electrical Data

Number of Cores & Nom. Cross Section Area	Overall Diameter	Cable Weight	Conductor		Inductance		Current - Carrying Capacity at 30°C				Short circuit current at 1 sec
			DC Resistance at 20°C	AC Resistance at 70°C	Trefoil formation	Flat formation	Trefoil in air	Trefoil in ground	Flat in air	Flat in ground	
	approx.	approx.	Max.	Max.			Max.	Max.	Max.	Max.	Max.
(mm²)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(mH/km)	(mH/km)	(A)	(A)	(A)	(A)	(kA)
1 x 1.5	9.4	140	12.1000	14.478	0.531	0.577	23	26	23	27	0.17
1 x 2.5	9.8	157	7.4100	8.866	0.491	0.537	30	35	31	36	0.29
1 x 4	10.9	200	4.6100	5.516	0.464	0.510	40	45	40	47	0.46
1 x 6	11.4	229	3.0800	3.685	0.436	0.483	50	56	51	58	0.69
1 x 10	12.3	286	1.8300	2.190	0.401	0.447	68	75	70	77	1.15
1 x 16	13.4	367	1.1500	1.376	0.374	0.420	89	97	92	100	1.84
1 x 25	15.1	496	0.7270	0.870	0.352	0.399	119	125	122	129	2.88
1 x 35	16.3	621	0.5240	0.627	0.336	0.382	146	150	150	155	4.03
1 x 50	18.1	779	0.3870	0.464	0.323	0.369	178	179	183	184	5.75
1 x 70	19.8	1008	0.2680	0.321	0.307	0.353	224	219	230	225	8.05
1 x 95	22.2	1336	0.1930	0.232	0.298	0.345	276	262	284	269	10.93
1 x 120	23.7	1582	0.1530	0.184	0.289	0.335	320	299	329	306	13.80
1 x 150	25.8	1917	0.1240	0.150	0.285	0.331	366	335	376	343	17.25
1 x 185	28.1	2339	0.0991	0.121	0.280	0.326	424	379	436	388	21.28
1 x 240	31.6	3002	0.0754	0.093	0.273	0.319	505	439	518	448	27.60
1 x 300	34.0	3422	0.0601	0.075	0.270	0.316	581	493	596	503	34.50
1 x 400	38.0	4348	0.0470	0.061	0.268	0.314	672	557	689	567	41.20
1 x 500	42.0	5504	0.0366	0.049	0.263	0.310	776	626	793	636	51.50
1 x 630	46.5	7035	0.0283	0.040	0.257	0.303	891	699	909	709	64.89
1 x 800	51.0	8770	0.0221	0.034	0.253	0.299	1003	768	1020	776	82.40

We reserve the right to carry out any modification without giving previous notice
10/2019

Construction and Electrical Data

Number of Cores & Nom. Cross Section Area	Overall Diameter	Cable Weight	Conductor		Inductance	Current - Carrying Capacity at 30°C		Short circuit current at 1 sec
			DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
	approx.	approx.	Max.	Max.		Max.	Max.	Max.
(mm^2)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(mH/km)	(A)	(A)	(kA)
2 x 1.5	12.8	256	12.1000	14.478	0.328	23	28	0.17
2 x 2.5	13.6	299	7.4100	8.866	0.304	31	37	0.29
2 x 4	15.7	406	4.6100	5.516	0.303	41	48	0.46
2 x 6	16.7	476	3.0800	3.685	0.288	52	60	0.69
2 x 10	18.5	618	1.8300	2.190	0.269	71	81	1.15
2 x 16	20.7	819	1.1500	1.376	0.255	94	105	1.84
2 x 25	23.9	1136	0.7270	0.870	0.255	123	135	2.88
2 x 35	26.4	1451	0.5240	0.627	0.246	152	163	4.03
2 x 50	29.0	1565	0.3870	0.464	0.247	183	193	5.75
2 x 70	33.0	2099	0.2680	0.321	0.238	231	238	8.05
2 x 95	37.5	2821	0.1930	0.232	0.238	282	283	10.93
2 x 120	40.5	3409	0.1530	0.184	0.233	327	323	13.80
2 x 150	45.0	4176	0.1240	0.150	0.233	373	362	17.25
2 x 185	50.0	5169	0.0991	0.121	0.233	426	407	21.28
2 x 240	56.0	6627	0.0754	0.093	0.232	502	470	27.60
2 x 300	62.0	8203	0.0601	0.075	0.231	572	527	34.50
3 x 1.5	13.3	285	12.1000	14.478	0.328	20	24	0.17
3 x 2.5	14.3	343	7.4100	8.866	0.304	26	31	0.29
3 x 4	16.5	469	4.6100	5.516	0.303	35	41	0.46
3 x 6	17.5	553	3.0800	3.685	0.288	44	51	0.69
3 x 10	19.5	738	1.8300	2.190	0.269	60	68	1.15
3 x 16	21.8	991	1.1500	1.376	0.255	80	89	1.84
3 x 25	25.4	1406	0.7270	0.870	0.255	106	114	2.88
3 x 35	28.0	1810	0.5240	0.627	0.246	130	138	4.03
3 x 50	32.8	2415	0.3870	0.464	0.247	163	169	5.75
3 x 70	36.6	3190	0.2680	0.321	0.238	204	207	8.05
3 x 95	42.3	4352	0.1930	0.232	0.238	251	248	10.93
3 x 120	46.3	5277	0.1530	0.184	0.233	291	283	13.80
3 x 150	51.0	6462	0.1240	0.150	0.233	332	316	17.25
3 x 185	56.8	8051	0.0991	0.121	0.233	383	357	21.28
3 x 240	63.7	10290	0.0754	0.093	0.232	452	413	27.60
3 x 300	70.4	12730	0.0601	0.075	0.231	518	464	34.50

Construction and Electrical Data

Number of Cores & Nom. Cross Section Area	Overall Diameter	Cable Weight	Conductor		Inductance	Current - Carrying Capacity at 30°C		Short circuit current at 1 sec
			DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
	approx.	approx.	Max.	Max.		Max.	Max.	Max.
(mm²)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(mH/km)	(A)	(A)	(kA)
4 x 1.5	14.3	330	12.1000	14.478	0.328	22	27	0.17
4 x 2.5	15.3	397	7.4100	8.866	0.304	29	36	0.29
4 x 4	17.7	547	4.6100	5.516	0.303	40	47	0.46
4 x 6	18.9	656	3.0800	3.685	0.288	50	58	0.69
4 x 10	21.1	892	1.8300	2.190	0.269	69	78	1.15
4 x 16	23.7	1215	1.1500	1.376	0.255	91	100	1.84
4 x 25	27.7	1737	0.7270	0.870	0.255	122	130	2.88
4 x 35	30.9	2277	0.5240	0.627	0.246	150	155	4.03
4 x 50	36.0	3018	0.3870	0.464	0.247	174	174	5.75
4 x 70	40.3	4017	0.2680	0.321	0.238	217	213	8.05
4 x 95	47.4	5590	0.1930	0.232	0.238	268	256	10.93
4 x 120	51.3	6707	0.1530	0.184	0.233	310	290	13.80
4 x 150	56.9	8278	0.1240	0.150	0.233	259	328	17.25
4 x 185	62.9	10240	0.0991	0.121	0.233	407	367	21.28
4 x 240	70.5	13103	0.0754	0.093	0.232	483	426	27.60
4 x 300	78.5	16337	0.0601	0.075	0.231	554	479	34.50
5 x 1.5	15.2	378	12.1000	14.478	0.328	23	28	0.17
5 x 2.5	16.3	458	7.4100	8.866	0.304	30	36	0.29
5 x 4	19.0	642	4.6100	5.516	0.303	41	48	0.46
5 x 6	20.4	779	3.0800	3.685	0.288	52	59	0.69
5 x 10	22.8	1050	1.8300	2.190	0.269	71	79	1.15
5 x 16	25.9	1464	1.1500	1.376	0.255	95	102	1.84
5 x 25	30.5	2116	0.7270	0.870	0.255	127	132	2.88
5 x 35	34.5	2820	0.5240	0.627	0.246	156	158	4.03
5 x 50	39.6	3677	0.3870	0.464	0.247	190	186	5.75

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Construction and Electrical Data

Number of Cores & Nom. Cross Section Area (RM)	Overall Diameter	Cable Weight	Conductor		Insulation	Current - Carrying Capacity at 30°C		Short circuit current at 1 sec	Standard Length per Drum
			DC Resistance at 20°C	AC Resistance at 70°C	Insulation Resistance at 20°C	in air	in ground		
	approx.	approx.	Max.	Max.	Min.	Max.	Max.	Max.	Max.
(mm^2)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(M.Ω./km)	(A)	(A)	(kA)	(m)
7 x 1.5	16.2	442	12.1000	14.478	50	10	14	0.17	1000
7 x 2.5	17.4	542	7.4100	8.866	50	16	19	0.29	1000
10 x 1.5	20.0	626	12.1000	14.478	50	9	12	0.17	1000
10 x 2.5	21.7	779	7.4100	8.866	50	13	16	0.29	1000
12 x 1.5	20.0	637	12.1000	14.478	50	8	10	0.17	1000
12 x 2.5	21.7	800	7.4100	8.866	50	12	16	0.29	1000
14 x 1.5	20.9	721	12.1000	14.478	50	8	10	0.17	1000
14 x 2.5	22.7	911	7.4100	8.866	50	12	14	0.29	1000
16 x 1.5	22.6	734	12.1000	14.478	50	8	10	0.17	1000
16 x 2.5	24.5	938	7.4100	8.866	50	12	14	0.29	1000
19 x 1.5	22.8	881	12.1000	14.478	50	8	9	0.17	1000
19 x 2.5	24.8	1125	7.4100	8.866	50	12	12	0.29	1000
21 x 1.5	24.0	927	12.1000	14.478	50	7	8	0.17	1000
21 x 2.5	26.7	1138	7.4100	8.866	50	11	11	0.29	1000
24 x 1.5	26.9	1094	12.1000	14.478	50	7	8	0.17	1000
24 x 2.5	29.5	1410	7.4100	8.866	50	11	11	0.29	1000
30 x 1.5	27.7	1216	12.1000	14.478	50	7	8	0.17	1000
30 x 2.5	30.6	1601	7.4100	8.866	50	11	11	0.29	1000
40 x 1.5	31.0	1558	12.1000	14.478	50	6	7	0.17	1000
40 x 2.5	35.3	2000	7.4100	8.866	50	9	10	0.29	1000
50 x 1.5	35.3	1826	12.1000	14.478	50	6	7	0.17	1000
50 x 2.5	38.8	2426	7.4100	8.866	50	9	10	0.29	1000
61 x 1.5	38.4	2164	12.1000	14.478	50	5	6	0.17	1000
61 x 2.5	42.4	2904	7.4100	8.866	50	8	8	0.29	1000