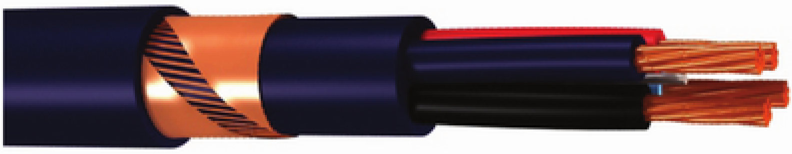
NYCY

Cu / PVC / CWS / PVC 600 / 1000 V

FIRSTCABLE



Construction

- Annealed Bare Copper Conductor
- Extruded PVC Insulated
- PVC Inner Sheath
- Copper Wire and 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		Insulation	Inductance		Current - Carrying Capacity at 30°C				Short circuit current at 1 sec
			DC Resistance at 20°C	AC Resistance at 70°C	Insulation Resistance at 20°C	Trefoil formation	Flat formation	Trefoil: in air	Trefoil: in ground	Flat: in air	Flat: in ground	
	approx.	approx.	Max.	Max.	Min.			Max.	Max.	Max.	Max.	Max.
(mm^2)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(M.Ω./km)	(mH/km)	(mH/km)	(A)	(A)	(A)	(A)	(kA)
1 x 1.5 / 1.5	10.2	152	12.1000	14.478	50	0.555	0.601	24	27	24	28	0.17
1 x 2.5 / 2.5	10.6	178	7.4100	8.866	50	0.514	0.561	31	35	32	36	0.29
1 x 4 / 4	11.6	230	4.6100	5.516	50	0.485	0.531	42	45	42	47	0.46
1 x 6 / 6	12.7	283	3.0800	3.685	50	0.457	0.503	52	57	54	59	0.69
1 x 10 / 10	13.6	375	1.8300	2.190	50	0.420	0.466	71	76	73	78	1.15
1 x 16 / 16	14.7	510	1.1500	1.376	40	0.399	0.455	94	98	97	101	1.84
1 x 25 / 16	16.4	636	0.7270	0.870	40	0.373	0.419	125	126	128	130	2.88
1 x 35 / 16	17.6	758	0.5240	0.627	40	0.315	0.401	151	152	156	156	4.03
1 x 50 / 25	20.1	1000	0.3870	0.463	30	0.345	0.391	186	180	191	185	5.75
1 x 70 / 35	21.8	1320	0.2680	0.321	30	0.324	0.375	233	220	238	225	8.05
1 x 95 / 50	25.6	1789	0.1930	0.232	30	0.322	0.368	285	261	291	267	10.93
1 x 120 / 70	27.1	2223	0.1530	0.184	30	0.316	0.363	329	297	334	299	13.80
1 x 150 / 70	29.3	2562	0.1240	0.150	20	0.310	0.357	373	331	378	332	17.25
1 x 185 / 95	31.8	3230	0.0991	0.120	20	0.305	0.351	425	368	428	367	21.28
1 x 240 / 120	35.1	4088	0.0754	0.092	20	0.298	0.344	494	416	495	410	27.60
1 x 300 / 150	38.6	5090	0.0601	0.075	20	0.299	0.341	553	455	550	445	34.50
1 x 400 / 185	41.9	6252	0.0470	0.060	20	0.293	0.399	621	497	615	483	41.20
1 x 500 / 240	46.2	7990	0.0366	0.048	20	0.289	0.335	690	537	684	520	51.50

Construction and Electrical Data

Number of Cores & Nom. Cross Section Area	Overall Diameter	Cable Weight	Conductor: DC Resistance at 20°C	Conductor: AC Resistance at 70°C	Insulation: Insulation Resistance at 20°C	Inductance	Current - Carrying Capacity at 30°C: in air	Current - Carrying Capacity at 30°C: in ground	Short circuit current at 1 sec
	approx.	approx.	Max.	Max.	Min.		Max.	Max.	Max.
(mm²)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(M.Ω./km)	(mH/km)	(A)	(A)	(kA)
2 x 1.5 / 1.5	13.5	260	12.1000	14.478	50	0.328	24	28	0.17
2 x 2.5 / 2.5	14.3	310	7.4100	8.866	50	0.304	31	37	0.29
2 x 4 / 4	16.4	427	4.6100	5.516	50	0.303	42	48	0.46
2 x 6 / 6	18.0	520	3.0800	3.685	50	0.288	53	60	0.69
2 x 10 / 10	19.8	696	1.8300	2.190	50	0.269	72	81	1.15
2 x 16 / 16	22.0	948	1.1500	1.376	40	0.255	96	106	1.84
2 x 25 / 16	29.3	1266	0.7270	0.870	40	0.255	126	136	2.88
2 x 35 / 16	27.7	1570	0.5240	0.627	40	0.246	154	164	4.03
2 x 50 / 25	32.5	2109	0.3870	0.464	30	0.247	187	194	5.75
2 x 70 / 35	36.5	2817	0.2680	0.321	30	0.238	234	239	8.05
2 x 95 / 50	43.2	3845	0.1930	0.232	30	0.238	285	284	10.93
2 x 120 / 70	46.5	4659	0.1530	0.184	30	0.233	332	324	13.80
2 x 150 / 70	51.3	5619	0.1240	0.150	20	0.233	377	362	17.25
2 x 185 / 95	56.4	7036	0.0991	0.121	20	0.233	429	405	21.28
2 x 240 / 120	63.2	9037	0.0754	0.093	20	0.232	503	466	27.60
2 x 300 / 150	69.4	11171	0.0601	0.075	20	0.231	568	517	34.50
3 x 1.5 / 1.5	14.0	287	12.1000	14.478	50	0.328	20	24	0.17
3 x 2.5 / 2.5	15.0	352	7.4100	8.866	50	0.304	27	31	0.29
3 x 4 / 4	17.2	488	4.6100	5.516	50	0.303	35	41	0.46
3 x 6 / 6	18.8	596	3.0800	3.685	50	0.288	45	51	0.69
3 x 10 / 10	20.8	813	1.8300	2.190	50	0.269	61	69	1.15
3 x 16 / 16	23.1	1118	1.1500	1.376	40	0.255	82	90	1.84
3 x 25 / 16	26.7	1520	0.7270	0.870	40	0.255	108	115	2.88
3 x 35 / 16	29.5	1941	0.5240	0.627	40	0.246	132	139	4.03
3 x 50 / 25	35.0	2623	0.3870	0.464	30	0.247	167	171	5.75
3 x 70 / 35	38.8	3487	0.2680	0.321	30	0.238	208	208	8.05
3 x 95 / 50	45.9	4741	0.1930	0.232	30	0.238	255	250	10.93
3 x 120 / 70	50.0	5867	0.1530	0.184	30	0.233	296	284	13.80
3 x 150 / 70	54.5	7025	0.1240	0.150	20	0.233	337	317	17.25
3 x 185 / 95	60.3	8841	0.0991	0.121	20	0.233	386	356	21.28
3 x 240 / 120	67.2	11314	0.0754	0.093	20	0.232	454	409	27.60
3 x 300 / 150	73.9	14023	0.0601	0.075	20	0.231	516	456	34.50

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Construction and Electrical Data

Number of Cores & Nom. Cross Section Area	Overall Diameter	Cable Weight	Conductor		Insulation	Inductance	Current - Carrying Capacity at 30°C		Short circuit current at 1 sec
			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.
(mm^2)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(M.Ω./km)	(mH/km)	(A)	(A)	(kA)
4 x 1.5 / 1.5	15.0	331	12.1000	14.478	50	0.328	23	28	0.17
4 x 2.5 / 2.5	16.0	404	7.4100	8.866	50	0.304	30	36	0.29
4 x 4 / 4	18.4	564	4.6100	5.516	50	0.303	41	47	0.46
4 x 6 / 6	20.2	696	3.0800	3.685	50	0.288	52	59	0.69
4 x 10 / 10	22.4	964	1.8300	2.190	50	0.269	70	78	1.15
4 x 16 / 16	25.0	1338	1.1500	1.376	40	0.255	93	101	1.84
4 x 25 / 16	29.2	1869	0.7270	0.870	40	0.255	125	130	2.88
4 x 35 / 16	32.4	2405	0.5240	0.627	40	0.246	152	156	4.03
4 x 50 / 25	38.2	3222	0.3870	0.463	30	0.247	176	175	5.75
4 x 70 / 35	42.5	4310	0.2680	0.321	30	0.238	220	214	8.05
4 x 95 / 50	50.9	5965	0.1930	0.231	30	0.238	272	257	10.93
4 x 120 / 70	54.8	7269	0.1530	0.184	30	0.233	315	292	13.80
4 x 150 / 70	60.4	8835	0.1240	0.149	20	0.233	363	328	17.25
4 x 185 / 95	66.4	11026	0.0991	0.119	20	0.233	410	366	21.28
4 x 240 / 120	74.0	1414	0.0754	0.091	20	0.232	484	421	27.60
4 x 300 / 150	82.0	17618	0.0601	0.073	20	0.231	550	469	34.50
5 x 1.5 / 2.5	15.9	386	12.1000	14.478	50	0.328	24	28	0.17
5 x 2.5 / 2.5	17.0	464	7.4100	8.866	50	0.304	31	37	0.29
5 x 4 / 4	19.7	650	4.6100	5.516	50	0.303	42	48	0.46
5 x 6 / 6	21.7	816	3.0800	3.685	50	0.288	53	60	0.69
5 x 10 / 10	24.1	1125	1.8300	2.190	50	0.269	70	78	1.15
5 x 16 / 16	27.2	1584	1.1500	1.376	40	0.255	93	101	1.84
5 x 25 / 16	32.0	2244	0.7270	0.870	40	0.255	125	130	2.88
5 x 35 / 16	35.8	2927	0.5240	0.627	40	0.246	152	156	4.03
5 x 50 / 25	41.8	3877	0.3870	0.463	30	0.247	176	175	5.75

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

FIRSTCABLE

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 1.5/2.5	16.9	447	12.1000	14.478	50	13	17	0.17	1000
7 x 2.5/2.5	18.1	546	7.4100	8.866	50	18	23	0.29	1000
10 x 1.5/2.5	20.7	612	12.1000	14.478	50	11	15	0.17	1000
10 x 2.5/2.5	22.4	771	7.4100	8.866	50	16	20	0.29	1000
12 x 1.5/2.5	20.7	635	12.1000	14.478	50	11	14	0.17	1000
12 x 2.5/4	22.4	809	7.4100	8.866	50	15	18	0.29	1000
14 x 1.5/2.5	21.0	717	12.1000	14.478	50	10	13	0.17	1000
14 x 2.5/6	24.0	944	7.4100	8.866	50	14	17	0.29	1000
19 x 1.5/4	23.5	888	12.1000	14.478	50	9	12	0.17	1000
19 x 2.5/6	26.2	1161	7.4100	8.866	50	13	16	0.29	1000
24 x 1.5/6	28.2	1120	12.1000	14.478	50	8	11	0.17	1000
24 x 2.5/10	30.8	1468	7.4100	8.866	50	11	14	0.29	1000
30 x 1.5/6	29.2	1255	12.1000	14.478	50	8	11	0.17	1000
30 x 2.5/10	32.1	1674	7.4100	8.866	50	11	14	0.29	1000
40 x 1.5/10	32.5	1630	12.1000	14.478	50	8	11	0.17	1000
40 x 2.5/10	36.0	2152	7.4100	8.866	50	11	14	0.29	1000