N2XY

Cu / XLPE / PVC 600 / 1000 V

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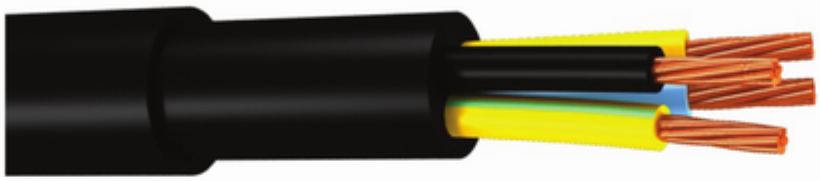

Construction

- Annealed Bare Copper Conductor
- Extruded XLPE Insulated
- PVC Outer Sheath, black colour, UV Resistant
- Flame Retardancy : IEC-60332-1
- Standard : IEC-60502-1

(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 without mechanical stress.

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 90°C	Trefoil formation	Flat formation	in air	in ground	in air	in ground	
	approx.	approx.	Max.	Max.			Max.	Max.	Max.	Max.	Max.
(mm^2)	(mm)	(kg/km)	(Ω/km)	(Ω/km)	(mH/km)	(mH/km)	(A)	(A)	(A)	(A)	(kA)
1 x 1.5	6.0	53	12.1000	15.429	0.452	0.498	25	33	26	33	0.21
1 x 2.5	6.4	65	7.4100	9.449	0.417	0.463	34	43	35	43	0.36
1 x 4	7.0	86	4.6100	5.878	0.387	0.433	45	56	46	55	0.57
1 x 6	7.5	107	3.0800	3.927	0.364	0.410	57	69	58	68	0.86
1 x 10	8.4	151	1.8300	2.334	0.336	0.382	78	92	80	91	1.43
1 x 16	9.5	216	1.1500	1.466	0.315	0.361	104	118	107	117	2.29
1 x 25	11.2	318	0.7270	0.927	0.302	0.348	141	152	145	151	3.58
1 x 35	12.4	424	0.5240	0.668	0.289	0.335	173	182	178	180	5.01
1 x 50	14.0	547	0.3870	0.494	0.279	0.325	213	216	220	214	7.15
1 x 70	16.1	762	0.2680	0.342	0.270	0.316	271	265	279	261	10.01
1 x 95	18.1	1037	0.1930	0.247	0.263	0.310	335	316	346	312	13.59
1 x 120	20.0	1278	0.1530	0.196	0.259	0.305	392	359	404	355	17.16
1 x 150	22.2	1581	0.1240	0.160	0.259	0.305	451	403	466	397	21.45
1 x 185	24.5	1962	0.0991	0.128	0.258	0.301	526	455	543	449	26.46
1 x 240	27.6	2545	0.0754	0.099	0.253	0.300	630	527	650	519	34.32
1 x 300	30.5	3169	0.0601	0.080	0.249	0.295	728	593	751	584	42.90
1 x 400	33.8	3946	0.0470	0.064	0.249	0.295	848	671	875	660	57.20
1 x 500	38.2	5119	0.0366	0.052	0.246	0.292	985	757	1018	744	71.50
1 x 630	43.5	6478	0.0283	0.043	0.243	0.289	1141	849	1179	834	90.09
1 x 800	48.0	8134	0.0221	0.036	0.241	0.287	1295	937	1339	921	114.40

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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 90°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	12.1	200	12.1000	15.429	0.315	29	34	0.21
2 x 2.5	12.9	237	7.4100	9.449	0.293	38	44	0.36
2 x 4	14.2	303	4.6100	5.878	0.275	50	58	0.57
2 x 6	15.2	364	3.0800	3.927	0.263	64	73	0.86
2 x 10	17.0	491	1.8300	2.334	0.248	88	98	1.43
2 x 16	19.2	671	1.1500	1.467	0.238	116	128	2.29
2 x 25	22.1	957	0.7270	0.927	0.240	154	165	3.58
2 x 35	24.8	1242	0.5240	0.669	0.233	190	199	5.01
2 x 50	28.1	1604	0.3870	0.494	0.232	230	236	7.15
2 x 70	32.8	2240	0.2680	0.342	0.229	292	292	10.01
2 x 95	35.5	2589	0.1930	0.247	0.224	356	348	13.59
2 x 120	39.0	3182	0.1530	0.196	0.223	414	397	17.16
2 x 150	43.5	3894	0.1240	0.160	0.224	474	445	21.45
2 x 185	48.0	4847	0.0991	0.128	0.225	544	502	26.46
2 x 240	54.0	6217	0.0754	0.099	0.223	644	582	34.32
2 x 300	59.5	7697	0.0601	0.080	0.221	737	654	42.90
3 x 1.5	12.6	222	12.1000	15.429	0.315	21	28	0.21
3 x 2.5	13.5	270	7.4100	9.449	0.293	32	37	0.36
3 x 4	14.9	352	4.6100	5.878	0.275	43	49	0.57
3 x 6	15.9	427	3.0800	3.927	0.263	54	61	0.86
3 x 10	17.9	592	1.8300	2.334	0.248	74	83	1.43
3 x 16	20.2	822	1.1500	1.467	0.238	99	107	2.29
3 x 25	23.7	1191	0.7270	0.927	0.240	131	139	3.58
3 x 35	26.4	1573	0.5240	0.669	0.233	162	167	5.01
3 x 50	30.1	2048	0.3870	0.494	0.232	200	203	7.15
3 x 70	35.0	2861	0.2680	0.342	0.229	252	248	10.01
3 x 95	39.5	3859	0.1930	0.247	0.224	309	298	13.59
3 x 120	44.0	4789	0.1530	0.196	0.223	359	339	17.16
3 x 150	48.6	5888	0.1240	0.160	0.224	411	379	21.45
3 x 185	54.5	7398	0.0991	0.128	0.225	475	430	26.46
3 x 240	60.9	9477	0.0754	0.099	0.223	562	497	34.32
3 x 300	67.1	11724	0.0601	0.080	0.221	645	560	42.90

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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 90°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)
4 x 1.5	13.4	254	12.1000	15.429	0.315	27	31	0.21
4 x 2.5	14.5	316	7.4100	9.449	0.293	35	41	0.36
4 x 4	15.9	411	4.6100	5.878	0.275	47	53	0.57
4 x 6	17.1	588	3.0800	3.927	0.263	59	67	0.86
4 x 10	19.3	719	1.8300	2.334	0.248	81	89	1.43
4 x 16	22.0	1018	1.1500	1.467	0.238	108	116	2.29
4 x 25	25.9	1486	0.7270	0.927	0.240	146	151	3.58
4 x 35	29.0	1982	0.5240	0.669	0.233	180	181	5.01
4 x 50	33.6	2625	0.3870	0.494	0.232	212	208	7.15
4 x 70	38.6	3625	0.2680	0.342	0.229	265	254	10.01
4 x 95	44.2	4973	0.1930	0.247	0.224	327	305	13.59
4 x 120	48.6	6089	0.1530	0.196	0.223	379	347	17.16
4 x 150	53.9	7523	0.1240	0.160	0.224	442	392	21.45
4 x 185	60.3	9431	0.0991	0.128	0.225	504	441	26.46
4 x 240	67.4	12097	0.0754	0.099	0.223	597	511	34.32
4 x 300	75.0	15115	0.0601	0.080	0.221	685	576	42.90
5 x 1.5	14.4	297	12.1000	15.429	0.315	27	32	0.21
5 x 2.5	15.5	368	7.4100	9.449	0.293	36	42	0.36
5 x 4	17.1	486	4.6100	5.878	0.275	48	54	0.57
5 x 6	18.4	604	3.0800	3.927	0.263	61	68	0.86
5 x 10	20.9	859	1.8300	2.334	0.248	84	91	1.43
5 x 16	23.8	1220	1.1500	1.467	0.238	112	118	2.29
5 x 25	28.5	1817	0.7270	0.927	0.240	152	153	3.58
5 x 35	32.4	2546	0.5240	0.669	0.233	187	184	5.01
5 x 50	36.9	3204	0.3870	0.494	0.232	227	217	7.15

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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	15.5	352	12.1000	14.478	50	17	22	0.21	1000
7 x 2.5	16.7	443	7.4100	8.866	50	23	29	0.36	1000
10 x 1,5	19.1	491	12.1000	14.478	50	16	20	0.21	1000
10 x 2.5	20.7	621	7.4100	8.866	50	21	26	0.36	1000
12 x 1.5	19.1	509	12.1000	14.478	50	15	18	0.21	1000
12 x 2.5	20.7	651	7.4100	8.866	50	20	24	0.36	1000
14 x 1.5	19.9	575	12.1000	14.478	50	14	17	0.21	1000
14 x 2.5	21.6	741	7.4100	8.866	50	18	22	0.36	1000
16 x 1.5	20.7	630	12.1000	14.478	50	13	16	0.21	1000
16 x 2.5	22.6	824	7.4100	8.866	50	18	21	0.36	1000
19 x 1.5	21.7	704	12.1000	14.478	50	12	12	0.21	1000
19 x 2.5	23.7	926	7.4100	8.866	50	17	17	0.36	1000
24 x 1.5	25.4	866	12.1000	14.478	50	12	12	0.21	1000
24 x 2.5	27.8	1138	7.4100	8.866	50	16	16	0.36	1000
27 x 1.5	22.1	720	12.1000	14.478	50	11	11	0.21	1000
27 x 2.5	24.5	980	7.4100	8.866	50	15	15	0.36	1000
30 x 1.5	26.2	964	12.1000	14.478	50	10	10	0.21	1000
30 x 2.5	28.9	1300	7.4100	8.866	50	14	14	0.36	1000
33 x 1.5	23.7	870	12.1000	14.478	50	9	10	0.21	1000
33 x 2.5	26.3	1180	7.4100	8.866	50	13	15	0.36	1000
37 x 1.5	28.0	1132	12.1000	14.478	50	8	9	0.21	1000
37 x 2.5	31.1	1552	7.4100	8.866	50	12	14	0.36	1000