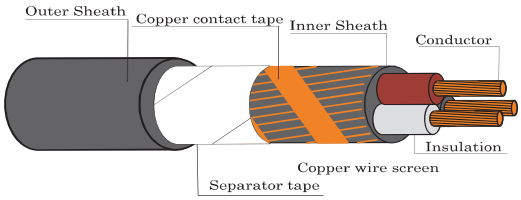
NYCY

450/750 V 70° C PVC INSULATED AND DOUBLE SHEATHED, WITH CONCENTRIC CONDUCTORS POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 3 Cores : Brown, Black, Grey

Inner Sheath : Black polyvinyl chloride (PVC)

Concentric shield : Annealed copper wires with helix of copper tape fully covers

Sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 4

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm2)		Conductor type	Diameter of Concentric Shield	Insulation thickness nominal	Inner Sheath thickness approx.	Outer Sheath thickness nominal	Overall diameter maximum	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous currunt rating in free air at 40°C maximum	Continuous currunt rating in ground at 30°C maximum	Cable weight approx.	Standard length per drum
	Phase	Concentric Shield		(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(A)	(kg/km)	(m)
3	1.5	1.5	Solid	1.5	0.8	0.8	1.8	14.5	12.1	0.0123	16	22	240	500
	1.5	1.5	Stranded	1.5	0.8	0.8	1.8	15.0	12.1	0.0116	16	22	260	500
	2.5	2.5	Solid	2.5	0.8	0.8	1.8	15.5	7.41	0.0102	22	30	300	500
	2.5	2.5	Stranded	2.5	0.8	0.8	1.8	16.5	7.41	0.0093	22	30	320	500
	4	4	Solid	4	0.9	0.8	1.8	17.5	4.61	0.0094	30	39	400	500
	4	4	Stranded	4	0.9	0.8	1.8	18.0	4.61	0.0085	30	39	420	500
	6	6	Stranded	6	0.9	0.8	1.8	19.5	3.08	0.0073	37	50	550	500
	10	10	Stranded	10	1.1	0.8	1.8	22.0	1.83	0.0069	52	68	750	500
	16	16	Stranded	16	1.1	0.8	2.0	26.0	1.15	0.0057	66	87	1100	500
	25	16	Stranded	16	1.3	1.2	2.0	30.0	0.727	0.0054	88	107	1600	500
	25	25	Stranded	25	1.3	1.2	2.0	30.0	0.727	0.0054	88	107	1600	500
	35	16	Stranded	16	1.3	1.2	2.0	33.0	0.524	0.0047	107	122	1900	500
	35	25	Stranded	25	1.3	1.2	2.0	33.0	0.524	0.0047	107	122	2000	500
	50	25	Stranded	25	1.5	1.5	2.2	38.0	0.387	0.0046	130	142	2600	500
	50	35	Stranded	35	1.5	1.5	2.2	39.0	0.387	0.0046	130	142	2700	500
	70	35	Stranded	35	1.5	1.5	2.2	43.0	0.268	0.0039	162	178	3500	500
	70	50	Stranded	50	1.5	1.5	2.2	43.0	0.268	0.0039	162	178	3600	500
	95	50	Stranded	50	1.7	1.5	2.4	48.0	0.193	0.0038	200	219	4700	500
	95	70	Stranded	70	1.7	1.5	2.4	49.0	0.193	0.0038	200	219	4900	500
	120	70	Stranded	70	1.7	1.8	2.6	53.0	0.153	0.0034	233	254	6000	500
	120	95	Stranded	95	1.7	1.8	2.6	54.0	0.153	0.0034	233	254	6000	500
	150	70	Stranded	70	1.9	1.8	2.8	58.0	0.124	0.0034	266	290	7000	500
	150	95	Stranded	95	1.9	1.8	2.8	58.0	0.124	0.0034	266	290	7500	500
	150	120	Stranded	120	1.9	1.8	2.8	59.0	0.124	0.0034	266	290	7500	500
	185	95	Stranded	95	2.1	2.0	3.0	64.0	0.0991	0.0034	306	332	9000	300
	185	120	Stranded	120	2.1	2.0	3.0	65.0	0.0991	0.0034	306	332	9000	300
	240	120	Stranded	120	2.3	2.0	3.2	72.0	0.0754	0.0033	364	389	11500	300
	300	150	Stranded	150	2.5	2.2	3.4	79.0	0.0601	0.0032	417	445	14000	300

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

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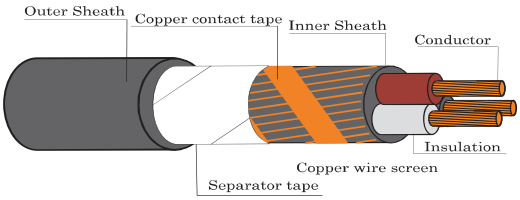

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Number of cores	Nominal cross sectional area (mm^2)	Conductor type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Stranded	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Stranded	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0985	5.5210
	4	Stranded	5.5200	0.3022	0.0950	5.5210
	6	Stranded	3.6900	0.2869	0.0901	3.6910
	10	Stranded	2.1900	0.2801	0.0880	2.1920
	16	Stranded	1.3800	0.2631	0.0827	1.3820
	25	Stranded	0.8700	0.2607	0.0819	0.8738
	35	Stranded	0.6273	0.2593	0.0814	0.6326
	50	Stranded	0.4635	0.2604	0.0818	0.4707
	70	Stranded	0.3213	0.2506	0.0787	0.3308
	95	Stranded	0.2319	0.2480	0.0779	0.2446
	120	Stranded	0.1843	0.2409	0.0757	0.1992
	150	Stranded	0.1499	0.2402	0.0755	0.1678
	185	Stranded	0.1205	0.2401	0.0754	0.1422
	240	Stranded	0.0928	0.2361	0.0742	0.1188
	300	Stranded	0.0751	0.2343	0.0736	0.1052

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