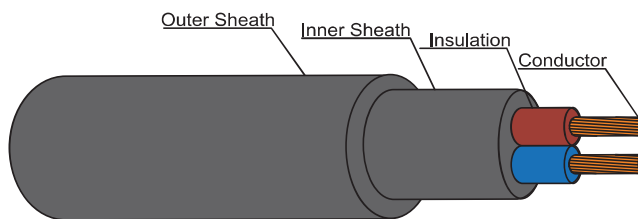


450/750 V 70°C STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 2 Cores : Blue, Brown

Inner sheath : Black polyvinyl chloride (PVC)

Sheath : Black polyvinyl chloride

TECHNICAL DATA

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

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

APPLICATION

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

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
2	1	Solid	0.8	0.8	1.8	12.0	18.1	0.0141	15	21	170	100/C
	1	Stranded	0.8	0.8	1.8	12.5	18.1	0.0135	15	21	170	100/C
	1.5	Solid	0.8	0.8	1.8	12.5	12.1	0.0123	19	27	180	100/C
	1.5	Stranded	0.8	0.8	1.8	13.0	12.1	0.0116	19	27	200	100/C
	2.5	Solid	0.8	0.8	1.8	13.5	7.41	0.0102	25	35	220	100/C
	2.5	Stranded	0.8	0.8	1.8	14.0	7.41	0.0093	25	35	240	100/C
	4	Solid	0.9	0.8	1.8	15.0	4.61	0.0094	33	47	290	100/C
	4	Stranded	0.9	0.8	1.8	15.5	4.61	0.0085	33	47	310	100/C
	95	Stranded	1.7	1.5	2.2	42.5	0.193	0.0038	245	288	3300	500/D
	120	Stranded	1.7	1.5	2.4	46.5	0.153	0.0034	285	329	4000	500/D
	150	Stranded	1.9	1.8	2.6	52.0	0.124	0.0034	325	368	4900	500/D
	185	Stranded	2.1	1.8	2.8	57.0	0.0991	0.0034	374	417	6000	500/D
	240	Stranded	2.3	2.0	3.0	64.0	0.0754	0.0033	440	481	8000	300/D
	300	Stranded	2.5	2.0	3.2	70.5	0.0601	0.0032	505	541	9500	300/D

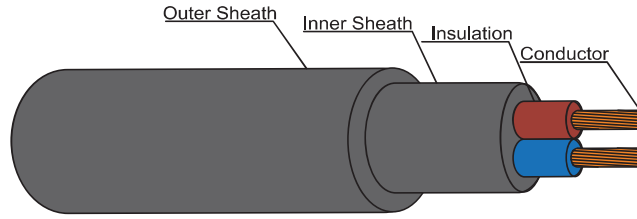
Remark : Thermal resistivity of soil 1,2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

C : Packing in coil
D : Packing in drum

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	A.C. Resistance		Inductance		Reactance		Impedance	
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)				
2	1	Solid	21.7000	0.3771	0.1185	21.7000				
	1	Stranded	21.7000	0.3651	0.1147	21.7000				
	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				
	95	Stranded	0.2317	0.2480	0.0779	0.2444				
	120	Stranded	0.1840	0.2409	0.0757	0.1990				
	150	Stranded	0.1495	0.2402	0.0755	0.1675				
	185	Stranded	0.1201	0.2401	0.0754	0.1418				
	240	Stranded	0.0922	0.2361	0.0742	0.1183				
	300	Stranded	0.0744	0.2343	0.0736	0.1047				



450/750 V 70° C STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, SUPER SOFT POWER CABLE



TIS 11 Part 101-2559

CABLE STRUCTURE

- Conductor** : Stranded annealed copper wire
- Insulation** : Polyvinyl chloride (PVC/C)
- Core identification** 2 Cores : Blue, Brown
- Inner sheath** : Black polyvinyl choride (PVC)
- 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

APPLICATION

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

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous currnt rating in free air at 40°C maximum (A)	Continuous currnt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length per drum (m)
2	6	Non-Compacted	0.9	0.8	1.8	17.0	3.08	0.0073	43	60	370	1000
	10	Non-Compacted	1.1	0.8	1.8	19.5	1.83	0.0069	60	81	550	1000
	16	Compacted	1.1	0.8	2.0	22.5	1.15	0.0057	80	105	1000	1000
	25	Compacted	1.3	1.2	2.0	27.0	0.727	0.0054	108	136	1000	1000
	35	Compacted	1.3	1.2	2.0	29.5	0.524	0.0047	132	165	1000	1000
	50	Compacted	1.5	1.2	2.2	33.5	0.387	0.0046	160	195	1700	1000
	70	Compacted	1.5	1.5	2.2	38.0	0.268	0.0039	200	239	2300	1000

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

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance		Inductance		Reactance		Impedance	
		R (Ω/km)	XL (Ω/km)	L (mH/km)	Z (Ω/km)				
2	6	3.6900	0.0901	0.2869	3.6910				
	10	2.1900	0.0880	0.2801	2.1920				
	16	1.3800	0.0827	0.2631	1.3820				
	25	0.8700	0.0819	0.2607	0.8738				
	35	0.6272	0.0814	0.2593	0.6325				
	50	0.4634	0.0818	0.2604	0.4706				
	70	0.3212	0.0787	0.2506	0.3307				

