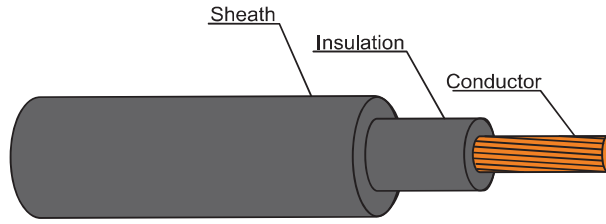


450/750 V 70° C STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, SUPER SOFT POWER CABLE



TIS 11 Part 101-2559

CABLE STRUCTURE

- Conductor** : Stranded annealed copper wire
- Insulation** : Polyvinyl chloride (PVC/C)
- Core identification** 1 Cores : Black
- 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 3

APPLICATION

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

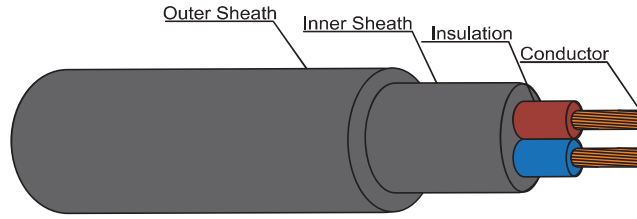
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Number of core	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	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 per drum (m)	
								Spaced	Touching	Trefoil			1000	2000
1	6	Non-compact	1.5	1.8	11.0	3.08	0.0107	54	42	43	57	160	1000	2000
	10	Non-compact	1.5	1.8	12.0	1.83	0.0088	73	57	59	76	210	1000	2000
	16	Compacted	1.5	1.8	13.0	1.15	0.0074	96	76	78	99	290	1000	2000
	25	Compacted	1.5	1.8	14.5	0.727	0.0061	127	99	96	128	390	1000	2000
	35	Compacted	1.5	1.8	16.0	0.524	0.0053	157	124	119	154	490	1000	2000
	50	Compacted	1.5	1.8	17.0	0.387	0.0046	191	151	145	181	600	1000	2000
	70	Compacted	1.5	1.8	19.0	0.268	0.0039	244	196	188	223	850	1000	2000
	95	Compacted	1.7	1.8	21.5	0.193	0.0038	297	239	230	267	1100	1000	2000
	120	Compacted	1.7	1.8	23.0	0.153	0.0034	345	279	268	304	1300	1000	2000
	150	Compacted	1.9	2.0	26.0	0.124	0.0034	397	324	310	342	1600	1000	2000
	185	Compacted	2.1	2.0	28.0	0.0991	0.0034	453	371	356	386	2000	1000	2000
240	Compacted	2.3	2.2	31.5	0.0754	0.0033	535	441	422	448	2800	1000	1200	

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 core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
1	6	3.6852	3.6852	3.6852	0.6360	0.4974	0.4512	0.1998	0.1563	0.1417	3.6907	3.6886	3.6880
	10	2.1896	2.1896	2.1896	0.5999	0.4612	0.4150	0.1885	0.1449	0.1304	2.1977	2.1944	2.1935
	16	1.3760	1.3761	1.3761	0.5702	0.4315	0.3853	0.1791	0.1356	0.1210	1.3876	1.3827	1.3814
	25	0.8700	0.8700	0.8700	0.5450	0.4064	0.3602	0.1712	0.1277	0.1132	0.8866	0.8793	0.8773
	35	0.6271	0.6272	0.6272	0.5175	0.3789	0.3327	0.1626	0.1190	0.1045	0.6478	0.6384	0.6358
	50	0.4632	0.4633	0.4634	0.5023	0.3637	0.3175	0.1578	0.1143	0.0997	0.4894	0.4772	0.4740
	70	0.3210	0.3211	0.3212	0.4862	0.3476	0.3014	0.1527	0.1092	0.0947	0.3555	0.3391	0.3348
	95	0.2313	0.2315	0.2317	0.4772	0.3386	0.2923	0.1499	0.1064	0.0918	0.2757	0.2548	0.2492
	120	0.1836	0.1838	0.1840	0.4664	0.3278	0.2816	0.1465	0.1030	0.0885	0.2349	0.2107	0.2420
	150	0.1490	0.1493	0.1496	0.4663	0.3276	0.2814	0.1465	0.1029	0.0884	0.2090	0.1814	0.1737
	185	0.1194	0.1198	0.1201	0.4622	0.3235	0.2773	0.1452	0.1016	0.0871	0.1880	0.1571	0.1484
240	0.0913	0.0918	0.0922	0.4568	0.3182	0.2719	0.1435	0.1000	0.0854	0.1701	0.1357	0.1257	

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

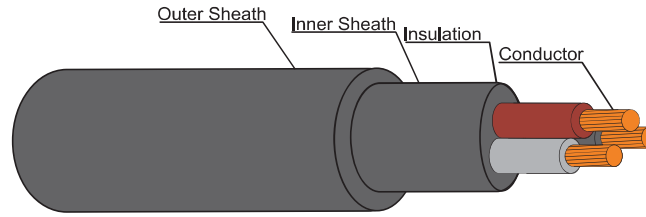
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

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	0.8738	0.0901	3.6910		
	10	2.1900	0.0880	0.2801	2.1920	0.0880	2.1920		
	16	1.3800	0.0827	0.2631	1.3820	0.0827	1.3820		
	25	0.8700	0.0819	0.2607	0.8738	0.0819	0.8738		
	35	0.6272	0.0814	0.2593	0.6325	0.0814	0.6325		
	50	0.4634	0.0818	0.2604	0.4706	0.0818	0.4706		
	70	0.3212	0.0787	0.2506	0.3307	0.0787	0.3307		

B

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** 3 Cores : Brown, Black, Grey
- 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

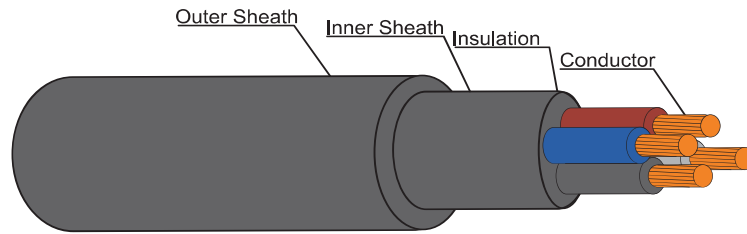
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous 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)
3	6	Non-Compacted	0.9	0.8	1.8	18.0	3.08	0.0073	37	50	440	1000
	10	Non-Compacted	1.1	0.8	1.8	20.5	1.83	0.0069	52	68	650	1000
	16	Compacted	1.1	1.2	2.0	24.5	1.15	0.0057	70	87	900	1000
	25	Compacted	1.3	1.2	2.0	28.5	0.727	0.0054	88	128	1300	1000
	35	Compacted	1.3	1.2	2.0	31.5	0.524	0.0047	110	154	1600	1000
	50	Compacted	1.5	1.5	2.2	36.0	0.387	0.0046	133	181	2200	1000
	70	Compacted	1.5	1.5	2.2	40.5	0.268	0.0039	171	223	2900	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)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3	6	3.6900	0.2869	0.0901	3.6910
	10	2.1900	0.2801	0.0880	2.1920
	16	1.3800	0.2631	0.0827	1.3820
	25	0.8700	0.2607	0.0819	0.8738
	35	0.6273	0.2593	0.0814	0.6326
	50	0.4635	0.2604	0.0818	0.4707
	70	0.3213	0.2506	0.0787	0.3308

B

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** 4 Cores : Blue, Brown, Black, Grey
- 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 (MQ-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 per drum (m)
4	6	Non-Compacted	0.9	0.8	1.8	19.0	3.08	0.0073	37	50	550	1000
	10	Non-Compacted	1.1	0.8	2.0	23.0	1.83	0.0069	52	68	800	1000
	16	Compacted	1.1	1.2	2.0	26.5	1.15	0.0057	70	87	1100	1000
	25	Compacted	1.3	1.2	2.0	31.0	0.727	0.0054	88	128	1600	1000
	35	Compacted	1.3	1.5	2.2	35.0	0.524	0.0047	110	154	2100	1000
	50	Compacted	1.5	1.5	2.2	39.5	0.387	0.0046	133	181	2800	1000
	70	Compacted	1.5	1.5	2.4	44.5	0.268	0.0039	171	223	3700	800

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)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
4	6	3.6900	0.2869	0.0901	3.6910
	10	2.1900	0.2801	0.0880	2.1920
	16	1.3800	0.2631	0.0827	1.3820
	25	0.8700	0.2607	0.0819	0.8738
	35	0.6273	0.2593	0.0814	0.6326
	50	0.4635	0.2604	0.0818	0.4707
	70	0.3213	0.2506	0.0787	0.3308

