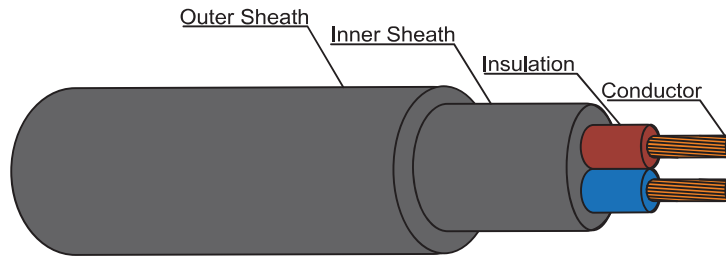


300/500 V 70 °C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED



TIS 11 Part 4-2553

CABLE STRUCTURE

- Conductor** : Solid and stranded annealed copper
- Insulation** : Polyvinyl chloride (PVC/C)
- Core identification 2 Cores** : Blue, Brown
- Inner Sheath** : Black polyvinyl chloride (PVC)
- Sheath** : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 70°C  
: Circuit voltage not exceeding 300/500 Volts
- Rated voltage** : 300 Volts between Line to Earth  
: 500 Volts between Line to Line
- Testing voltage** : 2,000 Volts
- Reference standard** : TIS 11 Part 4-2553, Table 1

APPLICATION

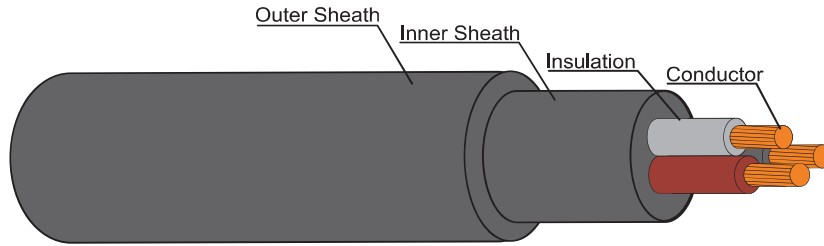
For installation exposed, or in raceway, wet or dry location

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air maximum (40 °C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
						Minimum (mm)	Maximum (mm)					
2	1.5	Solid	0.7	0.4	1.2	7.6	10.0	12.1	0.011	19	120	100/C
	1.5	Stranded	0.7	0.4	1.2	7.8	10.5	12.1	0.010	19	130	100/C
	2.5	Solid	0.8	0.4	1.2	8.6	11.5	7.41	0.010	26	160	100/C
	2.5	Stranded	0.8	0.4	1.2	9.0	12.0	7.41	0.009	26	180	100/C
	4	Solid	0.8	0.4	1.2	9.6	12.5	4.61	0.0085	34	210	100/C
	4	Stranded	0.8	0.4	1.2	10.0	13.0	4.61	0.0077	34	220	100/C
	6	Solid	0.8	0.4	1.2	1.5	13.5	3.08	0.0070	44	270	100/C
	6	Stranded	0.8	0.4	1.2	11.0	14.0	3.08	0.0065	44	290	100/C
	10	Solid	1.0	0.6	1.4	13.0	16.5	1.83	0.0070	60	420	500/D
	10	Stranded	1.0	0.6	1.4	13.5	17.5	1.83	0.0065	60	460	500/D
	16	Stranded	1.0	0.6	1.4	15.5	20.0	1.15	0.0052	80	650	500/D
	25	Stranded	1.2	0.8	1.4	18.5	24.0	0.727	0.0050	107	950	500/D
	35	Stranded	1.2	1.0	1.6	21.0	27.5	0.524	0.0044	131	1,300	500/D

C : Packing in Coil  
D : Packing in Drum

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	A.C. Resistance			
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
2	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Solid	3.6853	0.2951	0.0927	3.6864
	6	Stranded	3.6853	0.3011	0.0946	3.6865
	10	Solid	2.1897	0.2891	0.0908	2.1915
	10	Stranded	2.1897	0.2943	0.0925	2.1916
	16	Stranded	1.3761	0.2773	0.0871	1.3788
	25	Stranded	0.8700	0.2748	0.0863	0.8743
	35	Stranded	0.6272	0.2554	0.0803	0.6323

300/500 V 70 °C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED



TIS 11 Part 4-2553

**CABLE STRUCTURE** | **TECHNICAL DATA**

**Conductor** : Solid and stranded annealed copper

**Insulation** : Polyvinyl chloride (PVC/C)

**Core identification 3 Cores** : Brown, Black, Grey or Blue, Brown,Green/Yellow

**Inner Sheath** : Black polyvinyl chloride (PVC)

**Sheath** : Black polyvinyl chloride (PVC/ST4)

**Classification** : Maximum conductor temperature 70°C  
: Circuit voltage not exceeding 300/500 Volts

**Rated voltage** : 300 Volts between Line to Earth  
: 500 Volts between Line to Line

**Testing voltage** : 2,000 Volts

**Reference standard** : TIS 11 Part 4-2553, Table 1

**APPLICATION**

For installation exposed, or in raceway, wet or dry location

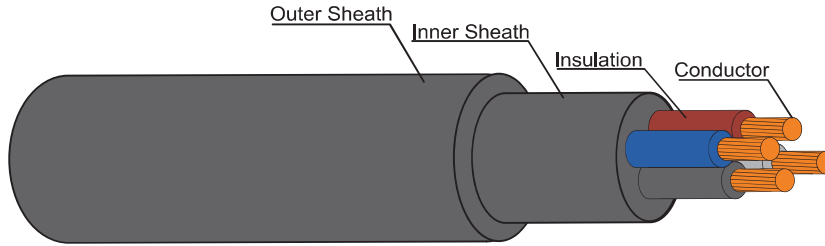
B

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter (mm)		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air maximum (40 °c) (A)	Cable weight approx. (kg/km)	Standard Length (m)
						Minimum	Maximum					
3	1.5	Solid	0.7	0.4	1.2	8.0	10.5	12.1	0.011	16	140	100/C
	1.5	Stranded	0.7	0.4	1.2	8.2	11.0	12.1	0.010	16	150	100/C
	2.5	Solid	0.8	0.4	1.2	9.2	12.0	7.41	0.010	22	190	100/C
	2.5	Stranded	0.8	0.4	1.2	9.4	12.5	7.41	0.009	22	210	100/C
	4	Solid	0.8	0.4	1.2	10.0	13.0	4.61	0.0085	30	250	100/C
	4	Stranded	0.8	0.4	1.2	10.5	13.5	4.61	0.0077	30	270	100/C
	6	Solid	0.8	0.4	1.4	11.5	14.5	3.08	0.0070	37	340	100/C
	6	Stranded	0.8	0.4	1.4	12.0	15.5	3.08	0.0065	37	370	100/C
	10	Solid	1.0	0.6	1.4	14.0	17.5	1.83	0.0070	52	520	500/D
	10	Stranded	1.0	0.6	1.4	14.5	19.0	1.83	0.0065	52	570	500/D
	16	Stranded	1.0	0.8	1.4	16.5	27.5	1.15	0.0052	70	810	500/D
	25	Stranded	1.2	0.8	1.6	20.5	26.0	0.727	0.0050	88	1,200	500/D
	35	Stranded	1.2	1.0	1.6	22.0	29.0	0.524	0.0044	110	1,600	500/D

C : Packing in Coil  
D : Packing in Drum

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor Type	A.C. Resistance	Inductance	Reactance	Impedance
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Solid	3.6853	0.2951	0.0927	3.6864
	6	Stranded	3.6853	0.3011	0.0946	3.6865
	10	Solid	2.1897	0.2891	0.0908	2.1916
	10	Stranded	2.1897	0.2943	0.0925	2.1916
	16	Stranded	1.3761	0.2773	0.0871	1.3789
	25	Stranded	0.8701	0.2748	0.0863	0.8744
	35	Stranded	0.6273	0.2554	0.0803	0.6324

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED



TIS 11 Part 4-2553

CABLE STRUCTURE

- Conductor** : Solid and stranded annealed copper
- Insulation** : Polyvinyl chloride (PVC/C)
- Core identification** 4 Cores: Blue, Brown, Black, Grey or Brown, Black, Grey and Green/Yellow
- Inner Sheath** : Black polyvinyl chloride (PVC)
- Sheath** : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 70°C  
: Circuit voltage not exceeding 300/500 Volts
- Rated voltage** : 300 Volts between Line to Earth  
: 500 Volts between Line to Line
- Testing voltage** : 2,000 Volts
- Reference standard** : TIS 11 Part 4-2553, Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location

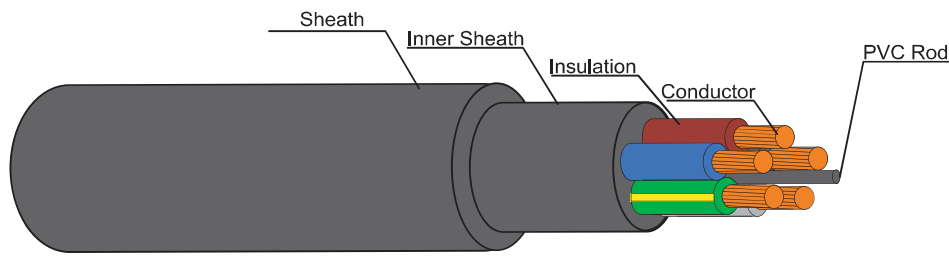
Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter (mm)		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air maximum (40°C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
						Minimum	Maximum					
4	1.5	Solid	0.7	0.4	1.2	8.6	11.5	12.1	0.011	16	160	100/C
	1.5	Stranded	0.7	0.4	1.2	9.0	12.0	12.1	0.010	16	180	100/C
	2.5	Solid	0.8	0.4	1.2	10.0	13.0	7.41	0.010	22	230	100/C
	2.5	Stranded	0.8	0.4	1.2	10.0	13.5	7.41	0.009	22	250	100/C
	4	Solid	0.8	0.4	1.4	11.5	14.5	4.61	0.0085	30	320	100/C
	4	Stranded	0.8	0.4	1.4	12.0	15.0	4.61	0.0077	30	340	100/C
	6	Solid	0.8	0.6	1.4	12.5	16.0	3.08	0.0070	37	440	500/D
	6	Stranded	0.8	0.6	1.4	13.0	17.0	3.08	0.0065	37	470	500/D
	10	Solid	1.0	0.6	1.4	15.5	19.0	1.83	0.0070	52	660	500/D
	10	Stranded	1.0	0.6	1.4	16.0	20.5	1.83	0.0065	52	700	500/D
	16	Stranded	1.0	0.8	1.4	18.0	23.5	1.15	0.0052	70	1,000	500/D
	25	Stranded	1.2	1.0	1.6	22.5	28.5	0.727	0.0050	88	1,600	500/D
35	Stranded	1.2	1.0	1.6	24.5	32.0	0.524	0.0044	110	2,000	500/D	

C : Packing in Coil  
D : Packing in Drum

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	A.C. Resistance	Inductance	Reactance	Impedance
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
4	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Solid	3.6853	0.2951	0.0927	3.6864
	6	Stranded	3.6853	0.3011	0.0946	3.6865
	10	Solid	2.1897	0.2891	0.0908	2.1916
	10	Stranded	2.1897	0.2943	0.0925	2.1916
	16	Stranded	1.3761	0.2773	0.0871	1.3789
	25	Stranded	0.8701	0.2748	0.0863	0.8744
35	Stranded	0.6273	0.2554	0.0803	0.6324	



300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED



TIS 11 Part 4-2553

CABLE STRUCTURE

- Conductor** : Solid and stranded annealed copper
- Insulation** : Polyvinyl chloride (PVC/C)
- Core identification** 5 Cores: Blue, Brown, Black, Grey and Black or Blue, Brown, Black, Grey and Green/Yellow
- Inner Sheath** : Black polyvinyl chloride (PVC)
- Sheath** : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 70°C  
: Circuit voltage not exceeding 300/500 Volts
- Rated voltage** : 300 Volts between Line to Earth  
: 500 Volts between Line to Line
- Testing voltage** : 2,000 Volts
- Reference standard** : TIS 11 Part 4-2553, Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location

B

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter (mm)		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (40°C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
						Minimum	Maximum					
5	1.5	Solid	0.7	0.7	1.2	9.4	12.0	12.1	0.011	16	200	100/C
	1.5	Stranded	0.7	0.7	1.2	9.8	12.5	12.1	0.010	16	220	100/C
	2.5	Solid	0.8	0.8	1.2	11.0	14.0	7.41	0.010	22	280	100/C
	2.5	Stranded	0.8	0.8	1.2	11.0	14.5	7.41	0.009	22	310	100/C
	4	Solid	0.8	0.8	1.4	12.5	16.0	4.61	0.0085	30	410	100/C
	4	Stranded	0.8	0.8	1.4	13.0	17.0	4.61	0.0077	30	430	100/C
	6	Solid	0.8	0.8	1.4	13.5	17.5	3.08	0.0070	37	530	500/D
	6	Stranded	0.8	0.8	1.4	14.5	18.5	3.08	0.0065	37	570	500/D
	10	Solid	1.0	1.0	1.4	17.0	21.0	1.83	0.0070	52	800	500/D
	10	Stranded	1.0	1.0	1.4	17.5	22.0	1.83	0.0065	52	870	500/D
	16	Stranded	1.0	1.0	1.6	20.5	26.0	1.15	0.0052	70	1,300	500/D
	25	Stranded	1.2	1.2	1.6	24.5	31.5	0.727	0.0050	88	1,900	500/D
	35	Stranded	1.2	1.2	1.6	27.0	35.0	0.524	0.0044	110	2,500	500/D

C : Packing in Coil  
D : Packing in Drum

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	A.C. Resistance	Inductance	Reactance	Impedance
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
5	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Solid	3.6853	0.2951	0.0927	3.6864
	6	Stranded	3.6853	0.3011	0.0946	3.6865
	10	Solid	2.1897	0.2891	0.0908	2.1916
	10	Stranded	2.1897	0.2943	0.0925	2.1916
	16	Stranded	1.3761	0.2773	0.0871	1.3789
	25	Stranded	0.8701	0.2748	0.0863	0.8744
	35	Stranded	0.6273	0.2554	0.0803	0.6324