

**60227 IEC 53 VCT or
60227 IEC 53 VCT-G**

 **TIS 11 Part 5-2553**

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE



CABLE STRUCTURE

TECHNICAL DATA

Conductor : Flexible annealed copper wire
: Sizes. 0.75 mm² up to 2.5 mm²

Insulation : Polyvinyl chloride (PVC/D)

Core identification

2 cores: Blue and Brown

3 cores : Brown, Black and Grey
or Blue, Brown and Green/Yellow

4 cores: Brown, Black, Grey and Blue
or Brown, Black, Grey and Green/Yellow

5 cores : Blue, Brown, Black, Grey and Black
or Blue, Brown, Black, Grey and Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST5)

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts
300 Volts between Line-to-Earth
500 Volts between Line-to-Line

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 5-2553, Table 9

APPLICATION

For household appliances, electrical equipment
and electrical illumination

Number of core	Nominal cross sectional area (mm ²)	Class of conductor	Insulation thickness nominal (mm)	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 (A)	Cable weight approx. (kg/km)	Standard length (m)
					Minimum (mm)	Maximum (mm)					
2	0.75	5	0.6	0.8	5.7	7.2	26.0	0.011	12	60	100/C
	1	5	0.6	0.8	5.9	7.5	19.5	0.010	14	70	100/C
	1.5	5	0.7	0.8	6.8	8.6	13.3	0.010	18	93	100/C
	2.5	5	0.8	1.0	8.4	10.6	7.98	0.009	25	140	100/C
3	0.75	5	0.6	0.8	6.0	7.6	26.0	0.011	10	70	100/C
	1	5	0.6	0.8	6.3	8.0	19.5	0.010	12	82	100/C
	1.5	5	0.7	0.9	7.4	9.4	13.3	0.010	16	115	100/C
	2.5	5	0.8	1.1	9.2	11.4	7.98	0.009	21	175	100/C
4	0.75	5	0.6	0.8	6.6	8.3	26.0	0.011	10	84	100/C
	1	5	0.6	0.9	7.1	9.0	19.5	0.010	12	105	100/C
	1.5	5	0.7	1.0	8.4	10.5	13.3	0.010	16	145	100/C
	2.5	5	0.8	1.1	10.1	12.5	7.98	0.009	21	215	100/C
5	0.75	5	0.6	0.9	7.4	9.3	26.0	0.011	10	105	100/C
	1	5	0.6	0.9	7.8	9.8	19.5	0.010	12	125	100/C
	1.5	5	0.7	1.1	9.3	11.6	13.3	0.010	16	175	100/C
	2.5	5	0.8	1.2	11.2	13.9	7.98	0.009	21	265	100/C

Class of conductor 5 : Flexible

C : Packing in coil

VCT



TIS 11 Part 101-2553

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE



CABLE STRUCTURE

Conductor	: Flexible annealed copper Single-core : Sizes 4 mm ² up to 35 mm ² Multi-cores : Sizes 4 mm ² up to 35 mm ²
Insulation	: Polyvinyl chloride (PVC/D)
Core identification	Single-core : Black 2 Cores : Blue and Brown 3 Cores : Brown, Black and Grey 4 Cores : Blue, Brown, Black and Grey
Sheath	: Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

Classification	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 450/750 Volts 450 Volts between Line-to-Earth 750 Volts between Line-to-Line
Testing voltage	: 2,500 Volts
Reference standard	: TIS 11 Part 101-2553, Table 7

APPLICATION

For mobile-electrical equipment used in mines, factories, farm or household appliances. This cable is suitable for use in places where cables come in contact with oils.

Number of core	Nominal cross sectional area (mm ²)	Class of conductor	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 maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
1	4	5	0.9	1.4	8.6	4.95	0.0084	41	90	100/C
	6	5	0.9	1.4	9.4	3.30	0.0071	53	120	100/C
	10	5	1.1	1.8	12.0	1.91	0.0068	74	210	100/C
	16	5	1.1	1.8	13.5	1.21	0.0050	99	270	100/C
	25	5	1.3	2.2	16.0	0.780	0.0048	129	410	100/C
	35	5	1.3	2.2	17.5	0.554	0.0041	160	550	500/D
2	4	5	0.9	1.6	14.5	4.95	0.0084	34	230	100/C
	6	5	0.9	1.6	16.0	3.30	0.0071	44	320	100/C
	10	5	1.1	1.8	20.0	1.91	0.0068	63	500	500/D
	16	5	1.1	2.2	23.0	1.21	0.0050	82	700	500/D
	25	5	1.3	2.4	27.5	0.780	0.0048	108	1,000	500/D
	35	5	1.3	2.6	31.0	0.554	0.0041	133	1,400	500/D

Class of conductor 5 : Flexible

C : Packing in coil
D : Packing in drum

VCT

 TIS 11 Part 101-2553

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE



CABLE STRUCTURE

Conductor : Flexible annealed copper
 Single-core : Sizes 4 mm² up to 35 mm²
 Multi-cores : Sizes 4 mm² up to 35 mm²

Insulation : Polyvinyl chloride (PVC/D)

Core identification
 Single-core : Black
 2 Cores : Blue and Brown
 3 Cores : Brown, Black and Grey
 4 Cores : Blue, Brown, Black and Grey

Sheath : Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
 : Circuit voltage not exceeding 450/750 Volts
 450 Volts between Line-to-Earth
 750 Volts between Line-to-Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2553, Table 7

APPLICATION

For mobile-electrical equipment used in mines, factories, farm or household appliances. This cable is suitable for use in places where cables come in contact with oils.

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
1	4	5.9200	0.58267	0.18305	5.9228
	6	3.9500	0.54956	0.17265	3.9538
	10	2.2900	0.54230	0.17037	2.2963
	16	1.4500	0.52085	0.16363	1.4592
	25	0.9334	0.51783	0.16268	0.9475
	35	0.6630	0.49968	0.15698	0.6813
2	4	5.9200	0.29835	0.09373	5.9207
	6	3.9500	0.27741	0.08715	3.9510
	10	2.2900	0.29736	0.08474	2.4418
	16	1.4520	0.25745	0.08088	1.4543
	25	0.9369	0.25468	0.08001	0.9403
	35	0.6677	0.24497	0.07696	0.6721

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TIS 11 Part 101-2553

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE



CONDUCTOR

INSULATION

SHEATH

CABLE STRUCTURE

Conductor	: Flexible annealed copper Single-core : Sizes 4 mm ² up to 35 mm ² Multi-cores : Sizes 4 mm ² up to 35 mm ²
Insulation	: Polyvinyl chloride (PVC/D)
Core identification	Single-core : Black 2 Cores : Blue and Brown 3 Cores : Brown, Black and Grey 4 Cores : Blue, Brown, Black and Grey
Sheath	: Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

Classification	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 450/750 Volts 450 Volts between Line-to-Earth 750 Volts between Line-to-Line
Testing voltage	: 2,500 Volts
Reference standard	: TIS 11 Part 101-2553, Table 7

APPLICATION

For mobile-electrical equipment used in mines, factories, farm or household appliances. This cable is suitable for use in places where cables come in contact with oils.

Number of core	Nominal cross sectional area (mm ²)	Class of conductor	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 maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
3	4	5	0.9	1.6	15.5	4.95	0.0084	29	280	100/C
	6	5	0.9	1.8	17.5	3.30	0.0071	38	390	100/C
	10	5	1.1	2.0	21.5	1.91	0.0068	53	650	500/D
	16	5	1.1	2.4	25.0	1.21	0.0050	71	900	500/D
	25	5	1.3	2.6	30.0	0.780	0.0048	94	1,300	500/D
	35	5	1.3	2.8	33.5	0.554	0.0041	116	1,700	500/D
4	4	5	0.9	1.8	17.0	4.95	0.0084	29	350	100/C
	6	5	0.9	2.0	19.5	3.30	0.0071	38	490	100/C
	10	5	1.1	2.2	24.0	1.91	0.0068	53	800	500/D
	16	5	1.1	2.6	28.0	1.21	0.0050	71	1,100	500/D
	25	5	1.3	2.8	33.0	0.780	0.0048	94	1,700	500/D
	35	5	1.3	3.1	37.0	0.554	0.0041	116	2,200	500/D

Class of conductor 5 : Flexible

C : Packing in coil
D : Packing in drum

VCT

 TIS 11 Part 101-2553

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE



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Insulation	: Polyvinyl chloride (PVC/D)	Testing voltage	: 2,500 Volts
Core identification	Single-co : Black 2 Cores : Blue and Brown 3 Cores : Brown, Black and Grey 4 Cores : Blue, Brown, Black and Grey	Reference standard	: TIS 11 Part 101-2553, Table 7
Sheath	: Black polyvinyl chloride (PVC/ST5)	APPLICATION	
		For mobile-electrical equipment used in mines, factories, farm or household appliances. This cable is suitable for use in places where cables come in contact with oils.	

Number of core	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	4	5.9200	0.29835	0.09373	5.9207
	6	3.9500	0.27741	0.08715	3.9510
	10	2.2900	0.26977	0.08475	2.2916
	16	1.4500	0.25745	0.08088	1.4523
	25	0.9335	0.25468	0.08001	0.9369
	35	0.6632	0.24497	0.07696	0.6677
4	4	5.9200	0.34495	0.10837	5.9210
	6	3.9500	0.32410	0.10182	3.9513
	10	2.2900	0.31624	0.09935	2.2922
	16	1.4500	0.30417	0.09556	1.7366
	25	0.9335	0.30171	0.09469	0.9383
	35	0.6631	0.29062	0.09130	0.6694