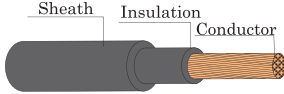
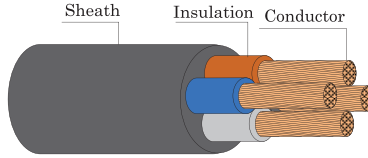


450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, ROUND TYPE


TIS 11 Part 101-2553

CABLE STRUCTURE

Conductor : Flexible annealed copper
 Single-core : Sizes 4 mm² up to 35 mm²
 Multi-core : 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, Grey
 4 Cores : Blue, Brown, Black, Grey

Sheath : Black polyvinyl chloride (PVC/ST5)

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 101-2553 Table 7

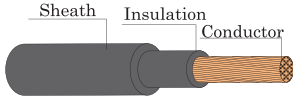
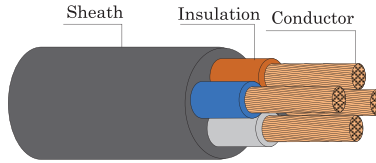
APPLICATION

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)	Conductor type	Insulation thickness nominal (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)	Cable weight approx. (kg/km)	Standard Length (m)
1	4	Flexible	0.9	1.4	8.6	4.95	0.0084	30	90	100/C
	6	Flexible	0.9	1.4	9.4	3.30	0.0071	39	120	100/C
	10	Flexible	1.1	1.8	12.0	1.91	0.0068	51	210	100/C
	26	Flexible	1.1	1.8	13.5	1.21	0.0050	73	270	100/C
	25	Flexible	1.3	2.2	16.0	0.780	0.0048	97	410	100/C
2	35	Flexible	1.3	2.2	17.5	0.554	0.0041	140	550	500/D
	4	Flexible	0.9	1.6	14.5	4.95	0.0084	30	230	100/C
	6	Flexible	0.9	1.6	16.0	3.30	0.0071	39	320	100/C
	10	Flexible	1.1	1.8	20.0	1.91	0.0068	51	500	500/D
	26	Flexible	1.1	2.2	23.0	1.21	0.0050	73	700	500/D
3	25	Flexible	1.3	2.4	27.5	0.780	0.0048	97	1000	500/D
	35	Flexible	1.3	2.6	31.0	0.554	0.0041	140	1400	500/D
	4	Flexible	0.9	1.6	15.5	4.95	0.0084	26	280	100/C
	6	Flexible	0.9	1.8	17.5	3.30	0.0071	34	390	100/C
	10	Flexible	1.1	2.0	21.5	1.91	0.0068	47	650	500/D
4	26	Flexible	1.1	2.4	25.0	1.21	0.0050	63	900	500/D
	25	Flexible	1.3	2.6	30.0	0.780	0.0048	83	1300	500/D
	35	Flexible	1.3	2.8	33.5	0.554	0.0041	102	1700	500/D
	4	Flexible	0.9	1.8	17.0	4.95	0.0084	26	350	100/C
	6	Flexible	0.9	2.0	19.5	3.30	0.0071	34	490	100/C
4	10	Flexible	1.1	2.2	24.0	1.91	0.0068	47	800	500/D
	26	Flexible	1.1	2.6	28.0	1.21	0.0050	63	1100	500/D
	25	Flexible	1.3	2.8	33.0	0.780	0.0048	83	1700	500/D
	35	Flexible	1.3	3.1	37.0	0.554	0.0041	102	2200	500/D

C = Packing in coil
 D = Packing in drum

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


 TIS 11 Part 101-2553


CABLE STRUCTURE

Conductor : Flexible annealed copper
 Single-core : Sizes 4 mm² up to 35 mm²
 Multi-core : 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, Grey
 4 Cores : Blue, Brown, Black, Grey

Sheath : Black polyvinyl chloride (PVC/ST5)

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 101-2553 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 R	Inductance L	Reactance XL	Impedance Z
		(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
1	4	5.9227	0.5946	0.1868	5.9256
	6	3.9485	0.5605	0.1761	3.9524
	10	2.2854	0.5529	0.1737	2.2919
	16	1.4478	0.5306	0.1667	1.4574
	25	0.9334	0.5275	0.1657	0.9480
	35	0.6630	0.5086	0.1598	0.6820
2	4	5.9227	0.3084	0.0969	5.9235
	6	3.9485	0.2862	0.0899	3.9495
	10	2.2854	0.2768	0.0870	2.2870
	16	1.4479	0.2638	0.0829	1.4502
	25	0.9334	0.2602	0.0817	0.9370
	35	0.6631	0.2500	0.0785	0.6677
3	4	5.9227	0.3084	0.0969	5.9235
	6	3.9485	0.2862	0.0899	3.9495
	10	2.2854	0.2768	0.0870	2.2870
	16	1.4479	0.2638	0.0829	1.4503
	25	0.9335	0.2602	0.0817	0.9371
	35	0.6632	0.2500	0.0785	0.6678
4	4	5.9227	0.3084	0.0969	5.9235
	6	3.9485	0.2862	0.0899	3.9495
	10	2.2854	0.2768	0.0870	2.2870
	16	1.4479	0.2638	0.0829	1.4503
	25	0.9335	0.2602	0.0817	0.9371
	35	0.6632	0.2500	0.0785	0.6678

**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 mm ² up to 2.5 mm ²	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
Insulation	: Polyvinyl chloride (PVC/D)	Testing voltage	: 2,000 Volts
Core identification		Reference standard	: TIS 11 Part 5-2553, Table 9
2 cores:	Blue and Brown	APPLICATION	
3 cores :	Brown, Black and Grey or Blue, Brown and Green/Yellow	For household appliances, electrical equipment and electrical illumination	
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)		

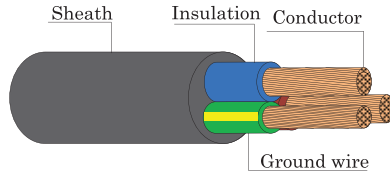
Number of core	Nominal cross sectional area (mm ²)	Class of conductor	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight 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

450/750 V 70 °C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH GROUND, ROUND TYPE

TIS 11 Part 101-2553



CABLE STRUCTURE

- Conductor** : Flexible annealed copper
 : Sizes 4 mm² up to 35 mm² for phase wires
 : Sizes 4 mm² up to 16 mm² for ground wires
- Insulation** : Polyvinyl chloride (PVC/D)
- Core identification**
 2 cores + Ground : Blue, Brown + Green/Yellow
- Sheath** : Black polyvinyl chloride (PVC/ST5)

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 101-2553 Table 8

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.

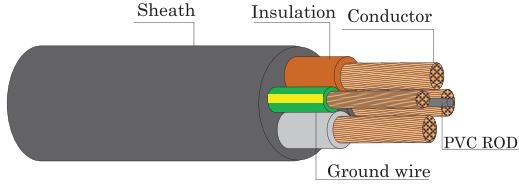
Number of core	Conductor				Insulation thickness nominal		sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum		Insulation resistance at 20°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	Nominal cross sectional area		Type of Conductor		Phase (mm)	Ground (mm)			Phase (Ω/km)	Ground (Ω/km)				
	Phase (mm ²)	Ground (mm ²)	Phase	Ground										
2+G	4	4	Flexible	Flexible	0.9	0.9	1.6	15.5	4.95	4.95	0.0084	30	280	100°C
	6	6	Flexible	Flexible	0.9	0.9	1.8	17.5	3.30	3.30	0.0071	44	400	100°C
	10	10	Flexible	Flexible	1.1	1.1	2.0	21.5	1.91	1.91	0.0068	51	650	500/D
	16	16	Flexible	Flexible	1.1	1.1	2.4	25.0	1.21	1.21	0.0050	73	900	500/D
	25	16	Flexible	Flexible	1.3	1.1	2.6	28.5	0.780	1.21	0.0048	97	1200	500/D
	35	16	Flexible	Flexible	1.3	1.1	2.8	31.5	0.554	1.21	0.0041	140	1500	500/D

C = Packing in coil
 D = Packing in drum

Number of core	Nominal cross sectional area		A.C. Resistance R	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	Phase (mm ²)	Ground (mm ²)	(Ω/km)			
2+G	4	4	5.9227	0.3084	0.0969	5.9235
	6	6	3.9485	0.2862	0.0899	3.9495
	10	10	2.2854	0.2768	0.0870	2.2870
	16	16	1.4479	0.2638	0.0829	1.4502
	25	16	0.9334	0.2602	0.0817	0.9370
	35	16	0.6631	0.2500	0.0785	0.6677

B

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH GROUND, ROUND TYPE



CABLE STRUCTURE

- Conductor** : Flexible annealed copper
 - : Sizes 4 mm² up to 35 mm² for phase wires
 - : Sizes 4 mm² up to 16 mm² for ground wires
- Insulation** : Polyvinyl chloride (PVC/D)
- Core identification**
 - 3 cores + Ground : Brown, Black and Grey + Green/Yellow
- Sheath** : Black polyvinyl chloride (PVC/ST5)

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 101-2553 Table 8

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.

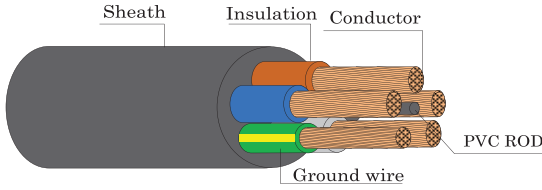
Number of core	Conductor				Insulation thickness nominal		sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum		Insulation resistance at 20°C minimum (MQ·km)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	Nominal cross sectional area		Type of Conductor		Phase (mm)	Ground (mm)			Phase (Ω/km)	Ground (Ω/km)				
	Phase (mm ²)	Ground (mm ²)	Phase	Ground										
3+G	4	4	Flexible	Flexible	0.9	0.9	1.8	17.0	4.95	4.95	0.0084	26	360	100/C
	6	6	Flexible	Flexible	0.9	0.9	2.0	19.5	3.30	3.30	0.0071	34	500	100/C
	10	10	Flexible	Flexible	1.1	1.1	2.2	24.0	1.91	1.91	0.0068	47	800	500/D
	16	16	Flexible	Flexible	1.1	1.1	2.6	28.0	1.21	1.21	0.0050	63	1200	500/D
	25	16	Flexible	Flexible	1.3	1.1	2.8	33.0	0.780	1.21	0.0048	83	1600	500/D
	35	16	Flexible	Flexible	1.3	1.1	3.1	37.0	0.554	1.21	0.0041	102	2100	500/D

C = Packing in coil
D = Packing in drum

Number of core	Nominal cross sectional area		A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
	Phase (mm ²)	Ground (mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
3+G	4	4	5.9227	0.3084	0.0969	5.9235
	6	6	3.9485	0.2862	0.0899	3.9495
	10	10	2.2854	0.2768	0.0870	2.2870
	16	16	1.4479	0.2638	0.0829	1.4503
	25	16	0.9335	0.2602	0.0817	0.9371
	35	16	0.6632	0.2500	0.0785	0.6678

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH GROUND, ROUND TYPE

TIS 11 Part 101-2553



CABLE STRUCTURE

Conductor : Flexible annealed copper
 : Sizes 4 mm² up to 35 mm² for phase wires
 : Sizes 4 mm² up to 16 mm² for ground wires

Insulation : Polyvinyl chloride (PVC/D)

Core identification
 4 cores + Ground : Blue, Brown, Black and Grey + Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST5)

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 101-2553 Table 8

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	Conductor				Insulation thickness nominal		sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum		Insulation resistance at 20°C minimum (MQ·km)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	Nominal cross sectional area		Type of Conductor		Phase (mm)	Ground (mm)			Phase (Ω/km)	Ground (Ω/km)				
	Phase (mm ²)	Ground (mm ²)	Phase	Ground										
4+G	4	4	Flexible	Flexible	0.9	0.9	1.8	18.5	4.95	4.95	0.0084	26	440	100/C
	6	6	Flexible	Flexible	0.9	0.9	2.0	21.5	3.30	3.30	0.0071	34	600	500/D
	10	10	Flexible	Flexible	1.1	1.1	2.2	26.5	1.91	1.91	0.0068	47	1,000	500/D
	16	16	Flexible	Flexible	1.1	1.1	2.6	30.5	1.21	1.21	0.0050	63	1,400	500/D
	25	16	Flexible	Flexible	1.3	1.1	2.8	36.5	0.780	1.21	0.0048	83	2,000	500/D
	35	16	Flexible	Flexible	1.3	1.1	3.1	41.5	0.554	1.21	0.0041	102	2,600	500/D

C = Packing in coil
 D = Packing in drum

Number of core	Nominal cross sectional area		A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
	Phase (mm ²)	Ground (mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
4+G	4	4	5.9227	0.3084	0.0969	5.9235
	6	6	3.9485	0.2862	0.0899	3.9495
	10	10	2.2854	0.2768	0.0870	2.2870
	16	16	1.4479	0.2638	0.0829	1.4503
	25	16	0.9335	0.2602	0.0817	0.9371
	35	16	0.6632	0.2500	0.0785	0.6678