

VCT-G



TIS 11 Part 101-2553

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



CABLE STRUCTURE TECHNICAL DATA

Conductor : Flexible annealed copper Classification : Maximum conductor temperature 70°C

Multi-cores : Sizes 4 mm² up to 35 mm² : Circuit voltage not exceeding 450/750 Volts

Ground wire : Flexible annealed copper 450 Volts between Line-to-Earl

: Flexible annealed copper

450 Volts between Line-to-Earth

Multi-cores : Sizes 4 mm² up to 16 mm²

750 Volts between Line-to-Line

Insulation : Polyvinyl chloride (PVC/D)

Core identificationTesting voltage: 2,500 Volts2 Cores: Blue and BrownReference standard: TIS 11 Part 101-2553, Table 8

3 Cores : Blue,Brown and Grey

4 Cores : Blue,Brown,Black and Grey

Ground core : Green/Yellow

For mobile-electrical equipment used in

Ground core: Green/Yellow

Sheath

Black polyvinyl chloride (PVC/ST5)

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	Nominal cross	Class of conductor	Insulation thickness	Sheath thickness	Overall diameter	Conductor resistance	Insulation resistance	Continuous current rating	Cable weight	Standard length
core	sectional	COTTGGCC	nominal	CARL ST THE COLUMN COLU	maximum	at 20°C maximum	at 70°C minimum	in free air maximum	approx.	longar
	(mm²)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2+G	4 4 (G)	5 5	0.9 0.9	1.6	15.5	4.95 4.95	0.0084	34	280	100/C
	6 6 (G)	5 5	0.9	1.8	17.5	3.30 3.30	0.0071	44	400	100/C
	10 10 (G)	5 5	1.1 1.1	2.0	21.5	1.91 1.91	0.0068	63	650	500/D
	16 16 (G)	5 5	1.1 1.1	2.4	25.0	1.21 1.21	0.0050	82	900	500/D
	25 16 (G)	5 5	1.3 1.1	2.6	28.5	0.780 1.21	0.0048	108	1,200	500/D
	35 16 (G)	5 5	1.3 1.1	2.8	31.5	0.554 1.21	0.0041	133	1,500	500/D

Class of conductor 5: Flexible G: Ground conductor C: Packing in coil

D : Packing in drum



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CABLE STRUCTURE

Conductor : Flexible annealed copper

Multi-cores : Sizes 4 mm² up to 35 mm²

Ground wire : Flexible annealed copper

Multi-cores : Sizes 4 mm² up to 16 mm²

Insulation : Polyvinyl chloride (PVC/D)

Core identification

2 Cores : Blue and Brown

3 Cores : Blue,Brown and Grey
4 Cores : Blue,Brown,Black and Grey

Ground core : Green/Yellow

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 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	Nominal cross sectional area (mm²)	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	approx.	Standard length
	(111111)							(A)	(kg/km)	(m)
3+G	4 4 (G)	5 5	0.9 0.9	1.8	17.0	4.95 4.95	0.0084	29	360	100/C
	6	5	0.9	2.0	19.5	3.30	0.0071	38	500	100/C
	6 (G)	5	0.9			3.30				
	10	5	1.1	2.2	24.0	1.91	0.0068	53	800	500/D
	10 (G)	5	1.1			1.91				
	16	5	1.1	2.6	28.0	1.21	0.0050	71	1,200	500/D
	16 (G)	5	1.1			1.21				
	25	5	1.3	2.8	33.0	0.780	0.0048	94	1,600	500/D
	16 (G)	5	1.1			1.21				
	35	5	1.3	3.1	37.0	0.554	0.0041	116	2,100	500/D
	16 (G)	5	1.1			1.21				

Class of conductor 5: Flexible G: Ground conductor C: Packing in coil

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4 Cores



TIS 11 Part 101-2553

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



CABLE STRUCTURE **TECHNICAL DATA**

: Blue, Brown, Black and Grey

Classification: Maximum conductor temperature 70°C : Flexible annealed copper Conductor

Multi-cores : Sizes 4 mm² up to 35 mm² : Circuit voltage not exceeding 450/750 Volts **Ground wire**

: Flexible annealed copper 450 Volts between Line-to-Earth Multi-cores: Sizes 4 mm² up to 16 mm² 750 Volts between Line-to-Line

: Polyvinyl chloride (PVC/D) Insulation **Testing voltage** Core identification : 2,500 Volts

Reference standard : Blue and Brown : TIS 11 Part 101-2553, Table 8 2 Cores

> : Blue, Brown and Grey 3 Cores APPLICATION

For mobile-electrical equipment used in mines, factories, Ground core: Green/Yellow farm or household appliances. This cable is suitable for : Black polyvinyl chloride (PVC/ST5) Sheath

use in places where cables come in contact with oils.

Number	Nominal	Class of	Insulation	Sheath	Overall	Conductor	Insulation	Continuous	Cable	Standard
of	cross	conductor	thickness	thickness	diameter	resistance	resistance	current rating	weight	length
core	sectional		nominal	nominal	maximum	at 20°C	at 70°C	in free air	approx.	
	area					maximum	minimum	maximum		
	(mm²)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
4+G	4 4 (G)	5 5	0.9 0.9	1.8	18.5	4.95 4.95	0.0084	29	440	100/C
	6 6 (G)	5 5	0.9 0.9	2.0	21.5	3.30 3.30	0.0071	38	600	500/D
	10 10 (G)	5 5	1.1 1.1	2.2	26.5	1.91 1.91	0.0068	53	1,000	500/D
	16 16 (G)	5 5	1.1 1.1	2.6	30.5	1.21 1.21	0.0050	71	1,400	500/D
	25 16 (G)	5 5	1.3 1.1	2.8	36.5	0.780 1.21	0.0048	94	2,000	500/D
	35 16 (G)	5 5	1.3 1.1	3.1	41.5	0.554 1.21	0.0041	116	2,600	500/D

Class of conductor 5: Flexible G: Ground conductor C : Packing in coil

D: Packing in drum