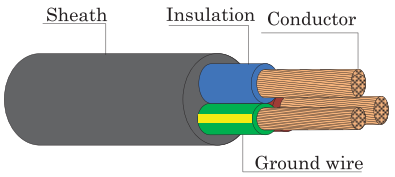
VCT-G

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 concuctor 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

B

APPLICATION

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

Number of core	Conductor				Insulation thickness norminal		sheath thickness nominal	Overall diameter maximum	Conductor resistance at 20°C maximum		Insulation resistance at 20°C minimum	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx.	Standard Length
	Nominal cross sectional area		Type of Conducror											
	Phase (mm^2)	Ground (mm^2)	Phase	Ground	Phase (mm)	Ground (mm)	(mm)	(mm)	Phase (Ω/km)	Ground (Ω/km)	(MΩ-km)		(kg/km)	(m)
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	Reactance XL	Impedance Z
	Phase (mm^2)	Ground (mm^2)	(Ω/km)	(mH/km)	(Ω/km)	(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

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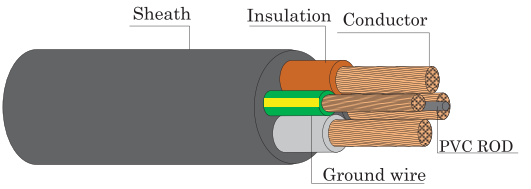

CABLE STRUCTURE

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 concuctor 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

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APPLICATION

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Number of core	Conductor				Insulation thickness nominal		sheath thickness nominal	Overall diameter maximum	Conductor resistance at 20°C maximum		Insulation resistance at 20°C minimum	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx.	Standard Length
	Nominal cross sectional area		Type of Conducror											
	Phase (mm^2)	Ground (mm^2)	Phase	Ground	Phase (mm)	Ground (mm)	(mm)	(mm)	Phase (Ω/km)	Ground (Ω/km)	(MΩ-km)		(kg/km)	(m)
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

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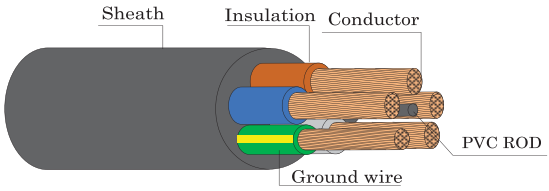

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Core identification
4 cores + Ground : Blue, Brown, Black and Grey + Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST5)

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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)
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	35	16	0.6632	0.2500	0.0785	0.6678