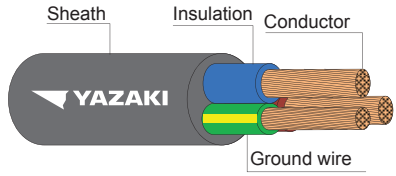
VCT-G

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

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Insulation color : Blue, Brown + Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST4)

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

AC Testing voltage : 2,500 volts

Reference standard : TIS 11 Part 101-2559 Table 8

APPLICATION

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

Number of coress	Conductor				Insulation thickness nominal	Sheath thickness approx.	Overall diameter maximum	Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
	Nominal cross section area		Type of Conductor					Phase	Ground				
	Phase	Ground	Phase	Ground									
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)		(kg/km)	(m)
2+G	1	1	Flexible		0.8	1.2	10.0	19.5	19.5	0.0127	14	115	100/C
	1.5	1.5	Flexible		0.8	1.4	12.0	13.3	13.3	0.0111	16	148	100/C
	2.5	2.5	Flexible		0.8	1.4	13.0	7.98	7.98	0.0092	25	188	100/C
	4	4	Flexible		0.9	1.6	15.5	4.95	4.95	0.00084	30	284	100/C
	6	6	Flexible		0.9	1.8	17.5	3.30	3.30	0.0071	39	403	100/C
	10	10	Flexible		1.1	2.0	21.5	1.91	1.91	0.0068	51	657	500/D
	16	16	Flexible		1.1	2.4	25.0	1.21	1.21	0.0050	73	917	500/D
	25	16	Flexible		1.3	2.6	28.5	0.780	1.21	0.0048	97	1217	500/D
	35	16	Flexible		1.3	2.8	31.5	0.554	1.21	0.0041	140	1538	500/D

C = Packing in Coil
D = Packing in drum

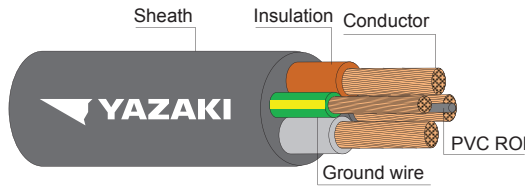
Number of cores	Nominal cross sectional area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase (mm^2)	Ground (mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
2+G	1	1	23.3000	0.3560	0.1118	23.3000
	1.5	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	2.5	9.5500	0.3070	0.0965	9.5520
	4	4	5.9227	0.3084	0.0969	5.9235
	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

VCT-G

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

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, 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

AC Testing voltage : 2,500 volts

Reference standard : TIS 11 Part 101-2559 Table 8

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

B

Number of cores	Conductor				Insulation thickness nominal	Sheath thickness approx.	Overall diameter maximum	Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
	Nominal cross section area		Type of Conductor					Phase	Ground				
	Phase	Ground	Phase	Ground									
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)		(kg/km)	(m)
3+G	1	1	Flexible		0.8	1.4	11.5	19.5	19.5	0.0127	12	147	100/C
	1.5	1.5	Flexible		0.8	1.4	12.5	13.3	13.3	0.0111	15	175	100/C
	2.5	2.5	Flexible		0.8	1.4	14.0	7.98	7.98	0.0092	20	227	100/C
	4	4	Flexible		0.9	1.8	17.0	4.95	4.95	0.0084	26	358	100/C
	6	6	Flexible		0.9	2.0	19.5	3.30	3.30	0.0071	34	513	500/D
	10	10	Flexible		1.1	2.2	24.0	1.91	1.91	0.0068	47	838	500/D
	16	16	Flexible		1.1	2.6	28.0	1.21	1.21	0.0050	63	1170	500/D
	25	16	Flexible		1.3	2.8	33.0	0.780	1.21	0.0048	83	1587	500/D
	35	16	Flexible		1.3	3.1	37.0	0.554	1.21	0.0041	102	2058	500/D

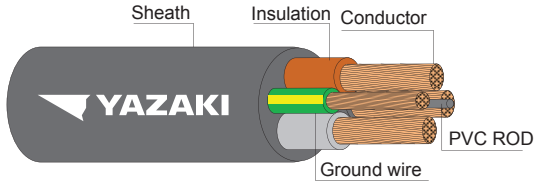
C = Packing in Coil
D = Packing in drum

Number of cores	Nominal cross sectional area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase (mm2)	Ground (mm2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3+G	1	1	23.3000	0.3560	0.1118	23.3000
	1.5	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	2.5	9.5500	0.3070	0.0965	9.5500
	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

VCT-G

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

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown, Black, 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

AC Testing voltage : 2,500 volts

Reference standard : TIS 11 Part 101-2559 Table 8

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

Number of cores	Conductor				Insulation Inner sheath thickness nominal	Outer Sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
	Nominal cross sectional area		Type of Conductor										
	Phase (mm^2)	Ground (mm^2)	Phase	Ground	(mm)	(mm)	minimum (mm)	maximum (mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
4+G	1	1	Flexible		0.8	1.6	13.0	19.5	19.5	0.0127	12	189	100/C
	1.5	1.5	Flexible		0.8	1.6	14.0	13.3	13.3	0.0111	15	225	100/C
	2.5	2.5	Flexible		0.8	1.6	15.5	7.98	7.98	0.0092	20	292	100/C
	4	4	Flexible		0.9	1.8	18.5	4.95	4.95	0.0084	26	437	100/C
	6	6	Flexible		0.9	2.0	21.5	3.30	3.30	0.0071	34	622	500/D
	10	10	Flexible		1.1	2.2	26.5	1.91	1.91	0.0068	47	1019	500/D
	16	16	Flexible		1.1	2.6	30.5	1.21	1.21	0.0050	63	1410	500/D
	25	16	Flexible		1.3	2.8	36.5	0.780	1.21	0.0048	83	1962	500/D
	35	16	Flexible		1.3	3.1	41.5	0.554	1.21	0.0041	102	2595	500/D

C = Packing in Coil
D = Packing in drum

Number of cores	Nominal cross sectional area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase (mm^2)	Ground (mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
4+G	1	1	23.3000	0.3560	0.1118	23.3000
	1.5	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	2.5	9.5500	0.3070	0.0965	9.5520
	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

B