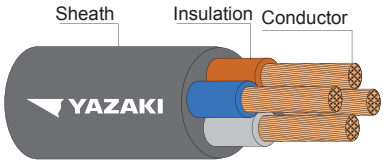
VCT

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

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color :

2 Cores	Blue, 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

AC Testing voltage : 2,500 volts

Reference standard : TIS 11 Part 101-2559 Table 7

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 cores	Nominal cross sectional area (mm²)	Conductor Type	Insulation Inner sheath thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter minimum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	1	Flexible	0.8	1.2	9.6	19.5	0.0127	14	100	100/C
	1.5	Flexible	0.8	1.4	11.0	13.3	0.011	16	130	100/C
	2.5	Flexible	0.8	1.4	12.5	7.98	0.0092	25	170	100/C
	4	Flexible	0.9	1.6	14.5	4.95	0.0084	30	230	100/C
2	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
	16	Flexible	1.1	2.2	23.0	1.21	0.0050	73	700	500/D
	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
	1	Flexible	0.8	1.4	10.5	19.5	0.0127	12	100	100/C
	1.5	Flexible	0.8	1.4	11.5	13.3	0.0111	15	130	100/C
	2.5	Flexible	0.8	1.4	13.0	7.98	0.0092	20	170	100/C
	4	Flexible	0.9	1.6	15.5	4.95	0.0084	26	230	100/C
3	6	Flexible	0.9	1.8	17.5	3.30	0.0071	34	320	100/C
	10	Flexible	1.1	2.0	21.5	1.91	0.0068	47	500	500/D
	16	Flexible	1.1	2.4	25.0	1.21	0.0050	63	700	500/D
	25	Flexible	1.3	2.6	30.0	0.780	0.0048	83	1000	500/D
	35	Flexible	1.3	2.8	33.5	0.554	0.0041	102	1400	500/D
	1	Flexible	0.8	1.6	10.5	19.5	0.0127	12	100	100/C
	1.5	Flexible	0.8	1.6	11.5	13.3	0.0111	15	130	100/C
	2.5	Flexible	0.8	1.6	13.0	7.98	0.0092	20	170	100/C
	4	Flexible	0.9	1.8	15.5	4.95	0.0084	26	230	100/C
4	6	Flexible	0.9	2.0	17.5	3.30	0.0071	34	320	500/D
	10	Flexible	1.1	2.2	21.5	1.91	0.0068	47	500	500/D
	16	Flexible	1.1	2.6	25.0	1.21	0.0050	63	700	500/D
	25	Flexible	1.3	2.8	30.0	0.780	0.0048	83	1000	500/D
	35	Flexible	1.3	3.1	33.5	0.554	0.0041	102	1400	500/D

C = Packing in Coil
D = Packing in drum

B

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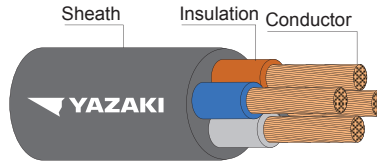

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Sheath : Black polyvinyl chloride (PVC/ST5)

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 7

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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.

B

Number of cores	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
2	1	23.3000	0.3560	0.1118	23.3000
	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	9.5500	0.3070	0.0965	9.5500
	4	5.9227	0.3084	0.0969	5.9235
	6	3.9485	0.8662	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	1	23.3000	0.3560	0.1118	23.3000
	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	9.5500	0.3070	0.0965	9.5500
	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	1	23.3000	0.3560	0.1118	23.3000
	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	9.5500	0.3070	0.0965	9.5520
	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