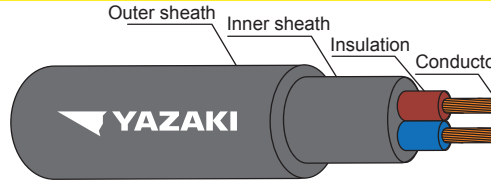
60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED



TIS 11 Part 4-2553

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Blue, Brown

Inner sheath : Black polyvinyl chloride (PVC)

Outer sheath : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

B

Number of cores	Nominal cross sectional area	Conductor Type	Insulation thickness nominal	Inner sheath thickness approx.	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating in free air maximum (40°C) (A)	Cable weight approx.	Standard Length
						minimum	maximum			ladder or treys		
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)		(kg/km)	(m)
	1.5	Solid	0.7	0.4	1.2	7.6	10.0	12.1	0.011	19	120	100/C
	1.5	Stranded	0.7	0.4	1.2	7.8	10.5	12.1	0.010	19	130	100/C
	2.5	Solid	0.8	0.4	1.2	8.6	11.5	7.41	0.010	26	160	100/C
	2.5	Stranded	0.8	0.4	1.2	9.0	12.0	7.41	0.009	26	180	100/C
	4	Solid	0.8	0.4	1.2	9.6	12.5	4.61	0.0085	35	210	100/C
2	4	Stranded	0.8	0.4	1.2	10.0	13.0	4.61	0.0077	35	230	100/C
	6	Stranded	0.8	0.4	1.2	11.0	14.0	3.08	0.0065	44	290	100/C
	10	Stranded	1.0	0.6	1.4	13.5	17.5	1.83	0.0065	61	470	500/D
	16	Stranded	1.0	0.6	1.4	15.5	20.0	1.15	0.0052	82	650	500/D
	25	Stranded	1.2	0.8	1.4	18.5	24.0	0.727	0.0050	104	950	500/D
	35	Stranded	1.2	1.0	1.6	21.0	27.5	0.524	0.0044	129	1300	500/D

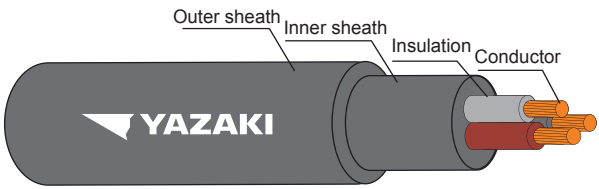
C = Packing in Coil
D = Packing in drum

Number of cores	Nominal cross sectional area	Conductor type	A.C Resistance	Inductance	Reactance	Impedance
	(mm^2)		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
2	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Stranded	3.6853	0.3011	0.0946	3.6865
	10	Stranded	2.1897	0.2943	0.0925	2.1917
	16	Stranded	1.3761	0.2773	0.0871	1.3789
	25	Stranded	0.8700	0.2748	0.0863	0.8743
	35	Stranded	0.6272	0.2554	0.0803	0.6323

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Outer sheath : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

B

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter maximum minimum (mm)	Overall diameter maximum 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 (40°C) (A) ladder or treys	Cable weight approx. (kg/km)	Standard Length (m)
	1.5	Solid	0.7	0.4	1.2	7.6	10.0	12.1	0.011	16	140	100/C
	1.5	Stranded	0.7	0.4	1.2	7.8	10.5	12.1	0.010	16	150	100/C
	2.5	Solid	0.8	0.4	1.2	8.6	11.5	7.41	0.010	22	190	100/C
	2.5	Stranded	0.8	0.4	1.2	9.0	12.00	7.41	0.009	22	210	100/C
	4	Solid	0.8	0.4	1.2	9.6	12.5	4.61	0.0085	30	250	100/C
3	4	Stranded	0.8	0.4	1.2	10.0	13.0	4.61	0.0077	30	270	100/C
	6	Stranded	0.8	0.4	1.2	11.0	14.0	3.08	0.065	37	370	500/D
	10	Stranded	1.0	0.6	1.4	13.5	17.5	1.83	0.0065	52	600	500/D
	16	Stranded	1.0	0.6	1.4	15.5	20.0	1.15	0.0052	70	800	500/D
	25	Stranded	1.2	0.8	1.4	18.5	24.0	0.727	0.0050	88	1200	500/D
	35	Stranded	1.2	1.0	1.6	21.0	27.5	0.524	0.0044	110	1600	500/D

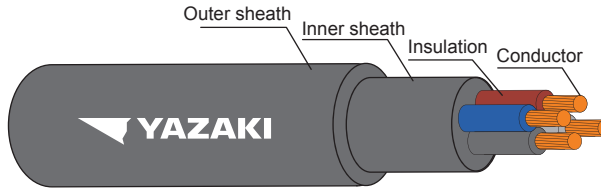
C = Packing in Coil
D = Packing in drum

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	A.C Resistance R (Ω/km	Inductance L (MΩ-km)	Reactance XL (MΩ-km)	Impedance Z (MΩ-km)
	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.667
	2.5	Stranded	8.8661	0.3405	0.1070	8.667
	4	Solid	5.5159	0.3135	0.985	5.5168
3	4	Stranded	5.5159	3.3164	0.994	5.5168
	6	Stranded	3.6853	0.3011	0.946	3.6865
	10	Stranded	2.1879	0.2943	0.925	2.1916
	16	Stranded	1.3761	0.2773	0.871	1.3788
	25	Stranded	0.8701	0.2748	0.863	0.8743
	35	Stranded	06.273	0.2554	0.803	0.6234

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Blue, Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Outer sheath : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

B

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter maximum minimum (mm)	Overall diameter maximum 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 (40°C) (A) ladder or treys	Cable weight approx. (kg/km)	Standard Length (m)
	1.5	Solid	0.7	0.4	1.2	8.6	11.5	12.1	0.011	16	170	100/C
	1.5	Stranded	0.7	0.4	1.2	9.0	12.0	12.1	0.010	16	180	100/C
	2.5	Solid	0.8	0.4	1.2	10.0	13.0	7.41	0.010	22	230	100/C
	2.5	Stranded	0.8	0.4	1.2	10.0	13.5	7.41	0.009	22	250	100/C
	4	Solid	0.8	0.4	1.2	11.5	14.5	4.61	0.0085	30	320	100/C
4	4	Stranded	0.8	0.4	1.2	12.0	15.0	4.61	0.0077	30	340	100/C
	6	Stranded	0.8	0.4	1.2	13.0	17.0	3.08	0.0065	37	470	500/D
	10	Stranded	1.0	0.6	1.4	16.0	20.5	1.83	0.0065	52	700	500/D
	16	Stranded	1.0	0.6	1.4	18.0	23.5	1.15	0.0052	70	1000	500/D
	25	Stranded	1.2	0.8	1.4	22.5	28.5	0.727	0.0050	88	1600	500/D
	35	Stranded	1.2	1.0	1.6	24.5	32.0	0.524	0.0044	110	2100	500/D

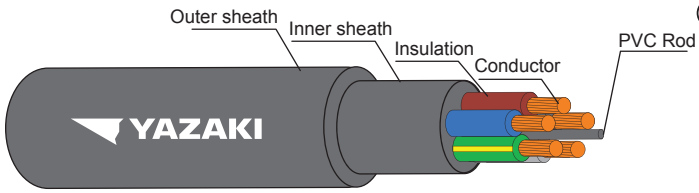
C = Packing in Coil
D = Packing in drum

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	A.C Resistance R (Ω/km)	Inductance L (MΩ-km)	Reactance XL (MΩ-km)	Impedance Z (MΩ-km)
	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
4	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Stranded	3.6853	0.3011	0.0946	3.865
	10	Stranded	2.1897	0.2943	0.0925	2.1916
	16	Stranded	1.3761	0.2773	0.0871	1.3789
	25	Stranded	0.8701	0.2748	0.0863	0.8744
	35	Stranded	0.6273	0.2554	0.0803	0.6324

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Blue, Brown, Black, Grey, Green/Yelow

Inner sheath : Black polyvinyl chloride (PVC)

Outer sheath : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer sheath thickness nominal (mm)	Overall diameter maximum minimum (mm)	Overall diameter maximum 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 (40°C) (A) ladder or treys	Cable weight approx. (kg/km)	Standard Length (m)
	1.5	Solid	0.7	0.7	1.2	9.4	12.0	12.1	0.011	16	200	100/C
	1.5	Stranded	0.7	0.7	1.2	9.8	12.5	12.1	0.010	16	220	100/C
	2.5	Solid	0.8	0.8	1.2	11.0	14.0	7.41	0.010	22	280	100/C
	2.5	Stranded	0.8	0.8	1.2	11.0	14.5	7.41	0.009	22	310	100/C
	4	Solid	0.8	0.8	1.2	12.5	16.0	4.61	0.0085	30	410	100/C
5	4	Stranded	0.8	0.8	1.2	13.0	17.0	4.61	0.0077	30	430	100/C
	6	Stranded	0.8	0.8	1.2	14.5	18.5	3.08	0.065	37	550	500/D
	10	Stranded	1.0	1.0	1.4	17.5	22.0	1.83	0.0065	52	900	500/D
	16	Stranded	1.0	1.0	1.4	20.5	26.0	1.15	0.0052	70	1300	500/D
	25	Stranded	1.2	1.2	1.4	24.5	31.5	0.727	0.0050	88	1900	500/D
	35	Stranded	1.2	1.2	1.6	27.0	35.0	0.524	0.0044	110	2600	500/D

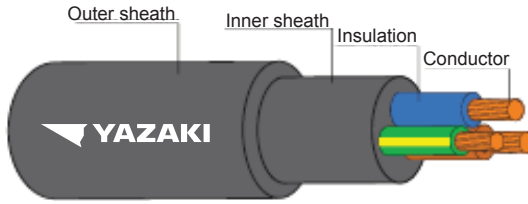
C = Packing in Coil
D = Packing in drum

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	A.C Resistance R (Ω/km)	Inductance L (MΩ-km)	Reactance XL (MΩ-km)	Impedance Z (MΩ-km)
	1.5	Solid	14.4777	0.3439	0.1081	14.4781
	1.5	Stranded	14.4777	0.3427	0.1077	14.4781
	2.5	Solid	8.8661	0.3350	0.1052	8.8667
	2.5	Stranded	8.8661	0.3405	0.1070	8.8667
	4	Solid	5.5159	0.3135	0.0985	5.5168
5	4	Stranded	5.5159	0.3164	0.0994	5.5168
	6	Stranded	3.6853	0.3011	0.0946	3.6865
	10	Stranded	2.1897	0.2943	0.0925	2.1916
	16	Stranded	1.3761	0.2773	0.0871	1.3789
	25	Stranded	0.8701	0.2748	0.0863	0.8744
	35	Stranded	0.6273	0.2554	0.0803	0.6324

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown + Green/Yellow

Inner sheath : Black polyvinyl choride (PVC)

Outer sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

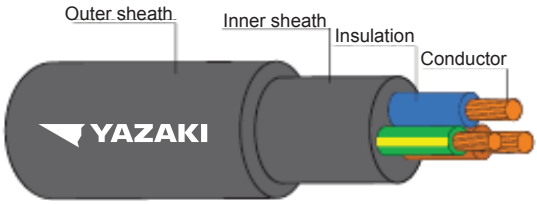
B

Number of cores	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air at (40°C)	Cable weight approx.	Standard Length
	Nominal cross section area		Type of Conductor												
	Phase	Ground	Phase	Ground				Minimum	Maximum	Phase	Ground				
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2+G	1.5	1.5	Solid		0.7	0.4	1.2	8.0	10.5	12.1	12.1	0.011	19	150	100/C
	1.5	1.5	Stranded		0.7	0.4	1.2	8.2	11.0	12.1	12.1	0.010	19	160	100/C
	2.5	2.5	Solid		0.8	0.4	1.2	9.2	12.0	7.41	7.41	0.010	26	200	100/C
	2.5	2.5	Stranded		0.8	0.4	1.2	9.4	12.5	7.41	7.41	0.009	26	220	100/C
	4	4	Solid		0.8	0.4	1.2	10.0	13.0	4.61	4.61	0.0085	35	260	100/C
	4	4	Stranded		0.8	0.4	1.2	10.5	13.5	4.61	4.61	0.0077	35	280	100/C
	6	6	Stranded		0.8	0.4	1.4	12.0	15.5	3.08	3.08	0.0065	44	380	100/C
	10	10	Stranded		1.0	0.6	1.4	14.5	19.0	1.83	1.83	0.0065	61	590	500/D
	16	16	Stranded		1.0	0.8	1.4	16.5	21.5	1.15	1.15	0.0052	82	830	500/D

C = Packing in coil
D = Packing in drum

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND



TIS 11 Part 4-2553

CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown + Green/Yellow

Inner sheath : Black polyvinyl choride (PVC)

Outer sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 4-2553 Table 1

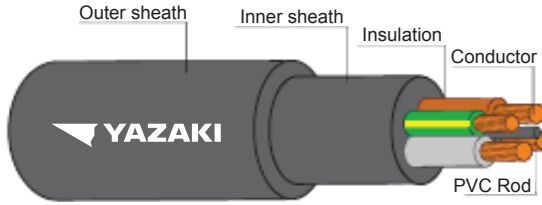
APPLICATION

For installation exposed, or in raceway, wet or dry location.

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	1.5	1.5	14.4777	0.3439	0.1081	14.4781
	1.5	1.5	14.4777	0.3427	0.1077	14.4781
	2.5	2.5	8.8661	0.3350	0.1052	8.8667
	2.5	2.5	8.8661	0.3405	0.1070	8.8667
	4	4	5.5159	0.3135	0.0985	5.5168
	4	4	5.5159	0.3164	0.0994	5.5168
	6	6	3.6853	0.3011	0.0946	3.6865
	10	10	2.1897	0.2943	0.0925	2.1917
	16	16	1.3761	0.2773	0.0871	1.3789

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND



TIS 11 Part 4-2553

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, Grey + Green/Yellow

Inner sheath : Black polyvinyl choride (PVC)

Outer sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

B

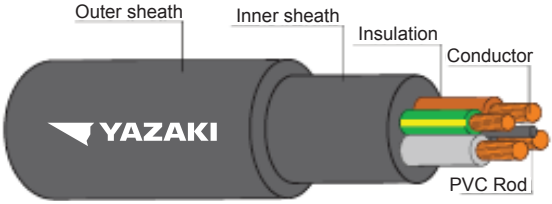
Number of cores	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air at (40°C)	Cable weight approx.	Standard Length
	Nominal cross section area		Type of Conductor												
	Phase	Ground	Phase	Ground				Minimum	Maximum	Phase	Ground				
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
3+G	1.5	1.5	Solid		0.7	0.4	1.2	8.6	11.5	12.1	12.1	0.011	16	170	100/C
	1.5	1.5	Stranded		0.7	0.4	1.2	9.0	12.0	12.1	12.1	0.010	16	190	100/C
	2.5	2.5	Solid		0.8	0.4	1.2	10.0	13.0	7.41	7.41	0.010	22	240	100/C
	2.5	2.5	Stranded		0.8	0.4	1.2	10.0	13.5	7.41	7.41	0.009	22	260	100/C
	4	4	Solid		0.8	0.4	1.4	11.5	14.5	4.61	4.61	0.0085	30	330	100/C
	4	4	Stranded		0.8	0.4	1.4	12.0	15.0	4.61	4.61	0.0077	30	350	100/C
	6	6	Stranded		0.8	0.6	1.4	13.0	17.0	3.08	3.08	0.0065	37	480	500/D
	10	10	Stranded		1.0	0.6	1.4	16.0	20.5	1.83	1.83	0.0065	52	730	500/D
	16	16	Stranded		1.0	0.8	1.4	18.0	23.5	1.15	1.15	0.0052	70	1040	500/D

C = Packing in coil
D = Packing in drum

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, Grey + Green/Yellow

Inner sheath : Black polyvinyl choride (PVC)

Outer sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

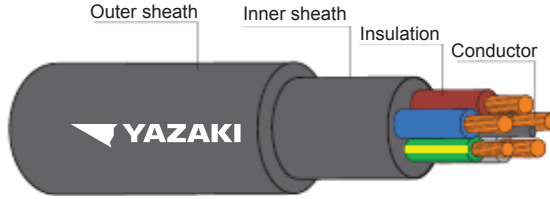
Number of cores	Nominal cross sectional area		A.C Resistance	Inductance	Reactance	Impedance
	Phase (mm^2)	Ground (mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3+G	1.5	1.5	14.4777	0.3439	0.1081	14.4781
	1.5	1.5	14.4777	0.3427	0.1077	14.4781
	2.5	2.5	8.8661	0.3350	0.1052	8.8667
	2.5	2.5	8.8661	0.3405	0.1070	8.8667
	4	4	5.5159	0.3135	0.0985	5.5168
	4	4	5.5159	0.3164	0.0994	5.5168
	6	6	3.6853	0.3011	0.0946	3.6865
	10	10	2.1897	0.2943	0.0925	2.1917
	16	16	1.3761	0.2773	0.0871	1.3789

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60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown, Black, Grey + Green/Yellow

Inner sheath : Black polyvinyl choride (PVC)

Outer sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

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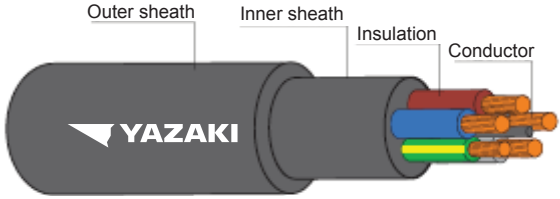
Number of cores	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air at (40°C)	Cable weight approx.	Standard Length
	Nominal cross section area		Type of Conductor												
	Phase	Ground	Phase	Ground				Minimum	Maximum	Phase	Ground				
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
4+G	1.5	1.5	Solid		0.7	0.4	1.2	9.4	12.0	12.1	12.1	0.011	16	210	100/C
	1.5	1.5	Stranded		0.7	0.4	1.2	9.8	12.5	12.1	12.1	0.010	16	230	100/C
	2.5	2.5	Solid		0.8	0.4	1.2	11.0	14.0	7.41	7.41	0.010	22	290	100/C
	2.5	2.5	Stranded		0.8	0.4	1.2	11.0	14.5	7.41	7.41	0.009	22	310	100/C
	4	4	Solid		0.8	0.6	1.4	12.5	16.0	4.61	4.61	0.0085	30	410	100/C
	4	4	Stranded		0.8	0.6	1.4	13.0	17.0	4.61	4.61	0.0077	30	440	100/C
	6	6	Stranded		0.8	0.6	1.4	14.5	18.5	3.08	3.08	0.0065	37	580	500/D
	10	10	Stranded		1.0	0.6	1.4	17.5	22.0	1.83	1.83	0.0065	52	880	500/D
	16	16	Stranded		1.0	0.8	1.6	20.5	26.0	1.15	1.15	0.0052	70	1300	500/D

C = Packing in coil
D = Packing in drum

60227 IEC 10

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND

TIS 11 Part 4-2553



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown, Black, Grey + Green/Yellow

Inner sheath : Black polyvinyl choride (PVC)

Outer sheath : Black polyvinyl choride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 4-2553 Table 1

APPLICATION

For installation exposed, or in raceway, wet or dry location.

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	1.5	1.5	14.4777	0.3439	0.1081	14.4781
	1.5	1.5	14.4777	0.3427	0.1077	14.4781
	2.5	2.5	8.8661	0.3350	0.1052	8.8667
	2.5	2.5	8.8661	0.3405	0.1070	8.8667
	4	4	5.5159	0.3135	0.0985	5.5168
	4	4	5.5159	0.3164	0.0994	5.5168
	6	6	3.6853	0.3011	0.0946	3.6865
	10	10	2.1897	0.2943	0.0925	2.1917
	16	16	1.3761	0.2773	0.0871	1.3789

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