Copper Conductor Cables

Building Wires and Cables

TIS 11 Part 3-2553 : Non-Sheathed Cables for Fixed Wiring

60227 IEC 01 THW or YK 60227 IEC 01 THW	450/750V 70°C SOILD AND STRANDED CONDUCTOR PVC INSULATED, SINGLE CORE	B1
60227 IEC 02 THW (f)	450/750V 70°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE	B3
60227 IEC 05 IV	300/500 V 70°C SOLID CONDUCTOR PVC INSULATED, SINGLE CORE	B4
60227 IEC 06 IV (f)	300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE	B5
60227 IEC 07 HIV	300/500 V 90°C SOLID CONDUCTOR PVC INSULATED, SINGLE CORE	B6
60227 IEC 08 HIV (f)	300/500 V 90°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE	B7

B

TIS 11 Part 4-2553: Sheathed Cables for Fixed Wiring

60227 IEC 10	300/500 V 70'C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED	B8

TIS 11 Part 5-2553 Flexible Cables (Cords)

B

TIS 11 Part 101-2559: Sheathed Cables for General Purposes

Low Voltage Power Cables

Medium Voltage Power Cables

B

High Voltage Power Cables

Control Cables

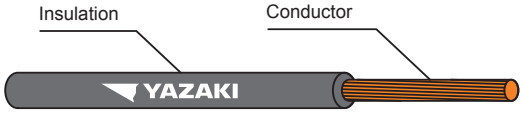
Automobile Wire and Cables

Bare Conductor

B

60227 IEC 01 or YK 60227 IEC 01 THW

450/750V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED, SINGLE CORE



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Black
(Other colors available upon request)

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 3-2553 Table 1

APPLICATION

Insulation : Polyvinyl chloride (PVC/C)

Cable name	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating			Cable weight approx.	Standard Length
				minimum	maximum			In free air at (40°C)	In Conduit in air at 40°C			
									Single-phase	Three-phase		
	(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)			(kg/km)	(m)
60227 IEC 01 THW	1.5	Solid	0.7	2.6	3.2	12.1	0.011	21	15	13	20	100/C
	1.5	Non-compacted	0.7	2.7	3.3	12.1	0.010	21	15	13	25	100/C
	2.5	Solid	0.8	3.2	3.9	7.41	0.010	28	21	18	35	100/C
	2.5	Non-compacted	0.8	3.3	4.0	7.41	0.009	28	21	18	35	100/C
	4	Solid	0.8	3.6	4.4	4.61	0.0085	37	28	24	50	100/C
	4	Non-compacted	0.8	3.8	4.6	4.61	0.0077	37	28	24	55	100/C
YK 60227 IEC 01 THW	6	Non-compacted	0.8	4.3	5.2	3.08	0.0065	49	36	31	70	100/C
	10	Non-compacted	1.0	5.6	6.7	1.83	0.0065	68	50	44	120	100/C
	16	Compacted	1.0	6.4	7.8	1.15	0.0050	91	66	59	170	100/C
	25	Compacted	1.2	8.1	9.7	0.727	0.0050	122	88	77	270	100/C
	35	Compacted	1.2	9.0	10.9	0.524	0.0043	151	109	96	360	100/C
	50	Compacted	1.4	10.6	12.8	0.387	0.0043	184	131	117	490	1000/D
	70	Compacted	1.4	12.1	14.6	0.268	0.0035	234	167	149	670	1000/D
	95	Compacted	1.6	14.1	17.1	0.193	0.0035	292	202	180	930	1000/D
	120	Compacted	1.6	15.6	18.8	0.153	0.0032	341	234	208	1150	1000/D
	150	Compacted	1.8	17.3	20.9	0.124	0.0032	391	261	228	1420	1000/D
	185	Compacted	2.0	19.3	23.3	0.0991	0.0032	454	297	258	1780	1000/D
	240	Compacted	2.2	22.0	26.6	0.0754	0.0032	543	348	301	2300	1000/D
60227 IEC 01 THW	300	Non-compacted	2.4	24.5	29.6	0.0601	0.0030	628	398	343	3090	500/D
	400	Non-compacted	2.6	27.5	33.2	0.047	0.0028	736	475	406	3930	500/D

C = Packing in Coil
D = Packing in drum

B

60227 IEC 01 or YK 60227 IEC 01 THW

450/750V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED, SINGLE CORE

TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Black
(Other colors available upon request)

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 3-2553 Table 1

APPLICATION

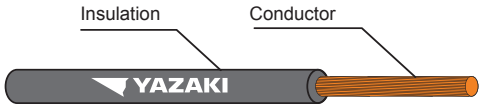
Building wiring for installation on insulator or in raceway dry location.

B

Cable name	Nominal cross sectional area (mm²)	Conductor type	A.C Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
60227 IEC 01 THW	1.5	Solid	14.4777	0.5259	0.1652	14.4786
	1.5	Non-compacted	14.4777	0.5276	0.1658	14.4786
	2.5	Solid	8.8661	0.5121	0.1609	8.8676
	2.5	Non-compacted	8.8661	0.5202	0.1634	8.8676
	4	Solid	5.5159	0.4917	0.1545	5.5181
	4	Non-compacted	5.5159	0.4870	0.1530	5.5180
YK 60227 IEC 01 THW	6	Non-compacted	3.6852	0.5606	0.1761	3.6894
	10	Non-compacted	2.1896	0.5219	0.1640	2.1957
	16	Compacted	1.3776	0.4642	0.1458	1.3853
	25	Compacted	0.8700	0.4594	0.1443	0.8819
	35	Compacted	0.6271	0.4496	0.1412	0.6428
	50	Compacted	0.4633	0.4477	0.1406	0.4842
	70	Compacted	0.3210	0.4354	0.1368	0.3489
	95	Compacted	0.2314	0.4347	0.1366	0.2687
	120	Compacted	0.1836	0.4295	0.1349	0.2278
	150	Compacted	0.1491	0.4292	0.1348	0.2010
	185	Compacted	0.1194	0.4281	0.1345	0.1798
	240	Compacted	0.0914	0.4257	0.1337	0.1620
60227 IEC 01 THW	300	Non-compacted	0.0734	0.4177	0.1312	0.1504
	400	Non-compacted	0.0581	0.4160	0.1307	0.1430

60227 IEC 02 THW (f)

450/750V 70°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Black
(Other colors available upon request)

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 3-2553 Table 3

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

Nominal cross sectional area	Conductor type	Insulation 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)	Cable weight approx.	Standard Length
			minimum	maximum					
(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
1.5	Flexible	0.7	2.8	3.4	13.3	0.010	16	21	100/C
2.5	Flexible	0.8	3.4	4.1	7.98	0.009	25	33	100/C
4	Flexible	0.8	3.9	4.8	4.95	0.0070	30	50	100/C
6	Flexible	0.8	4.4	5.3	3.30	0.0060	39	75	100/C
10	Flexible	1.0	5.7	6.8	1.91	0.0056	51	130	100/C
16	Flexible	1.0	6.7	8.1	1.21	0.0046	73	180	100/C
25	Flexible	1.2	8.4	10.2	0.780	0.0044	97	280	100/C
35	Flexible	1.2	9.7	11.7	0.554	0.0038	140	390	100/C
50	Flexible	1.4	11.5	13.9	0.386	0.0037	175	550	500/D
70	Flexible	1.4	13.2	16.0	0.272	0.0032	216	750	500/D
95	Flexible	1.6	15.1	18.2	0.206	0.0032	258	1000	500/D
120	Flexible	1.6	16.7	20.2	0.161	0.0029	302	1300	500/D
150	Flexible	1.8	18.6	22.5	0.129	0.0029	347	1600	500/D
185	Flexible	2.0	20.6	24.9	0.106	0.0029	394	1900	500/D
240	Flexible	2.2	23.5	28.4	0.081	0.0028	471	2500	500/D

C = Packing in Coil
D = Packing in drum

Nominal cross sectional area	A.C Resistance	Inductance	Reactance	Impedance
	R	L	XL	Z
(mm^2)	(Ω/km)	(MΩ-km)	(MΩ-km)	(MΩ-km)
1.5	15.9135	0.5149	0.1618	15.9143
2.5	9.5481	0.5038	0.1583	9.5494
4	5.9227	0.4846	0.1522	5.9246
6	3.9485	0.4637	0.1457	3.9512
10	2.2854	0.4631	0.1423	2.2898
16	1.4478	0.4537	0.1394	1.4545
25	0.9334	0.4409	0.1385	0.9436
35	0.6630	0.4312	0.1355	0.6767
50	0.4621	0.4294	0.1349	0.4814
70	0.3258	0.4215	0.1324	0.3517
95	0.2469	0.4230	0.1329	0.2804
120	0.1932	0.4174	0.1311	0.2335
150	0.1550	0.4172	0.1311	0.2030
185	0.1277	0.4187	0.1315	0.1833
240	0.0969	0.4164	0.1308	0.1628

60227 IEC 05 IV

300/500 V 70°C SOLID CONDUCTOR PVC INSULATED, SINGLE CORE

TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Solid annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Black
(Other colors available upon request)

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 3-2553 Table 5

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

B

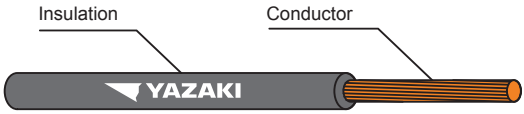
Nominal cross sectional area	Conductor type	Insulation thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating in free air maximum (40°C)	Cable weight approx.	Standard Length
			minimum	maximum					
(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
0.5	Solid	0.6	1.9	2.3	36.0	0.015	3	8.8	100/C
0.75	Solid	0.6	2.1	2.5	24.5	0.012	6	12	100/C
1	Solid	0.6	2.2	2.7	18.1	0.011	10	14	100/C

C = Packing in Coil

Nominal cross sectional area	A.C Resistance	Inductance	Reactance	Impedance
	R	L	XL	Z
(mm^2)	(Ω/km)	(MΩ-km)	(MΩ-km)	(MΩ-km)
0.5	43.0740	0.5798	0.1821	43.0744
0.75	29.3143	0.5486	0.1723	29.3148
1	21.6567	0.5366	0.1686	21.6573

60227 IEC 06 IV (f)

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Fiexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Black
(Other colors available upon request)

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 3-2553 Table 7

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

Nominal cross sectional area	Conductor type	Insulation 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)	Cable weight approx.	Standard Length
			minimum	maximum					
(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
0.5	Flexible	0.6	2.1	2.5	39.0	0.013	3	9	100/C
0.75	Flexible	0.6	2.2	2.7	26.0	0.011	6	12	100/C
1	Flexible	0.6	2.4	2.8	19.5	0.010	10	15	100/C

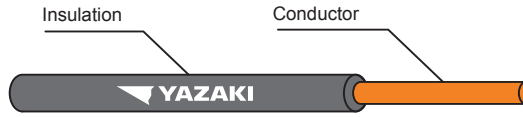
C = Packing in Coil

Nominal cross sectional area	A.C Resistance	Inductance	Reactance	Impedance
	R	L	XL	Z
(mm^2)	(Ω/km)	(MΩ-km)	(MΩ-km)	(MΩ-km)
0.5	46.6635	0.5642	0.1773	46.6638
0.75	31.1090	0.5394	0.1695	31.1095
1	23.3318	0.5225	0.1641	23.3323

B

60227 IEC 07 HIV

300/500 V 90°C SOLID CONDUCTOR PVC INSULATED, SINGLE CORE



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Solid annealed copper wire

Insulation : Polyvinyl chloride (PVC/E)

Insulation color : Black
(Other colors available upon request)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°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 3-2553 Table 9

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

B

Nominal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter minimum (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 90°C minimum (MΩ-km)	Continuous current rating in free air maximum (40°C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
0.5	Solid	0.6	1.9	2.3	36.0	0.015	3	8.6	100/C
0.75	Solid	0.6	2.1	2.5	24.5	0.013	6	11	100/C
1	Solid	0.6	2.2	2.7	18.1	0.012	10	14	100/C
1.5	Solid	0.7	2.6	3.2	12.1	0.011	16	20	100/C
2.5	Solid	0.8	3.2	3.9	7.41	0.009	25	32	100/C

C = Packing in Coil

Nominal cross sectional area (mm²)	A.C Resistance R (Ω/km)	Inductance L (MΩ-km)	Reactance XL (MΩ-km)	Impedance Z (MΩ-km)
0.5	43.0740	0.5758	0.1809	43.0744
0.75	29.3143	0.5526	0.1736	29.3148
1	21.6567	0.5401	0.1697	21.6573
1.5	14.4777	0.5288	0.1661	14.4786
2.5	8.8661	0.5198	0.1633	8.8676

60227 IEC 08 HIV (f)

300/500 V 90°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE

TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Fiexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/E)

Insulation color : Black
(Other colors available upon request)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°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 3-2553 Table 11

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

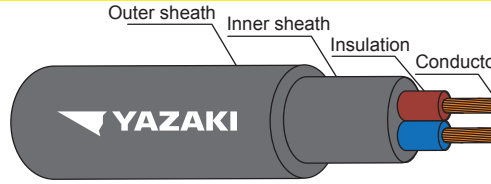
Nominal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter minimum (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 90°C minimum (MΩ-km)	Continuous current rating in free air maximum (40°C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
0.5	Flexible	0.6	2.1	2.5	39.0	0.013	3	9	100/C
0.75	Flexible	0.6	2.2	2.7	26.0	0.012	6	12	100/C
1	Flexible	0.6	2.4	2.8	19.5	0.010	10	15	100/C
1.5	Flexible	0.7	2.8	3.4	13.3	0.009	16	21	100/C
2.5	Flexible	0.8	3.4	4.1	7.93	0.009	25	33	100/C

C = Packing in Coil

Nominal cross sectional area (mm²)	A.C Resistance R (Ω/km)	Inductance L (MΩ-km)	Reactance XL (MΩ-km)	Impedance Z (MΩ-km)
0.5	46.6635	0.5642	0.1773	46.6638
0.75	31.1090	0.5394	0.1695	31.1095
1	23.3318	0.5225	0.1641	23.3323
1.5	15.9135	0.5149	0.1618	15.9143
2.5	9.581	0.5038	0.1583	9.5494

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

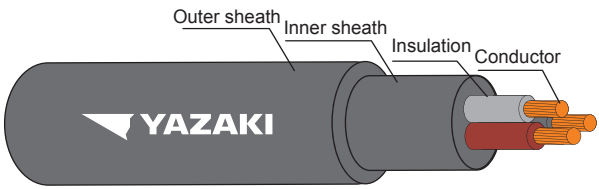
C = Packing in Coil
D = Packing in drum

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

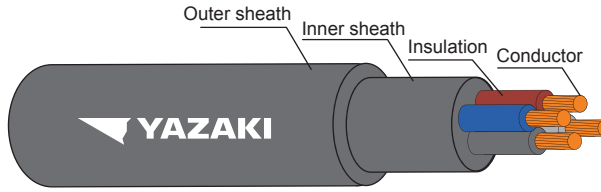
C = Packing in Coil
D = Packing in drum

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

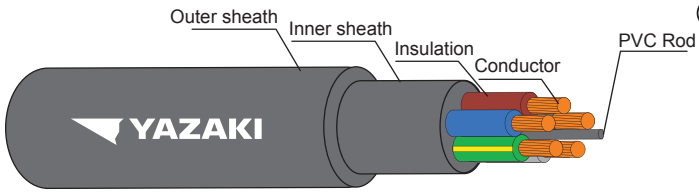
C = Packing in Coil
D = Packing in drum

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

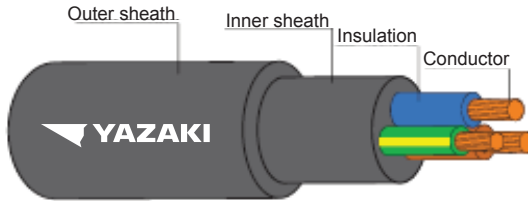
C = Packing in Coil
D = Packing in drum

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.

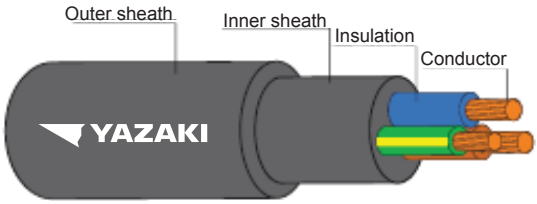
B

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

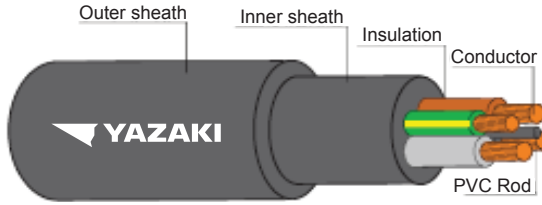
APPLICATION

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

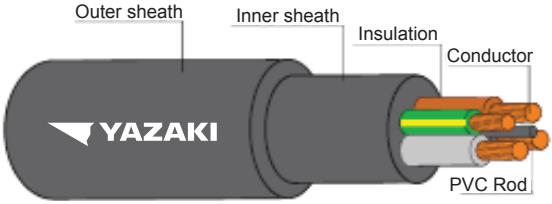
Number of cores	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air at (40°C)	Cable weight approx.	Standard Length
	Nominal 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.

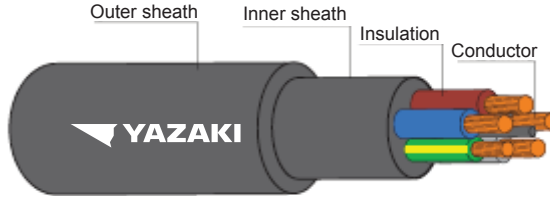
Number of cores	Nominal cross sectional area		A.C Resistance	Inductance	Reactance	Impedance
	Phase (mm^2)	Ground (mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3+G	1.5	1.5	14.4777	0.3439	0.1081	14.4781
	1.5	1.5	14.4777	0.3427	0.1077	14.4781
	2.5	2.5	8.8661	0.3350	0.1052	8.8667
	2.5	2.5	8.8661	0.3405	0.1070	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

B

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.

B

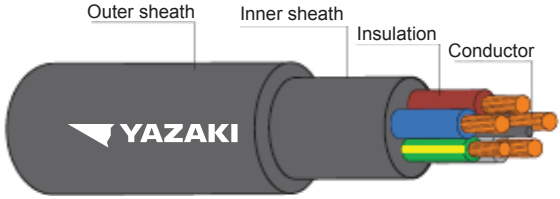
Number of cores	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air at (40°C)	Cable weight approx.	Standard Length
	Nominal 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)
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

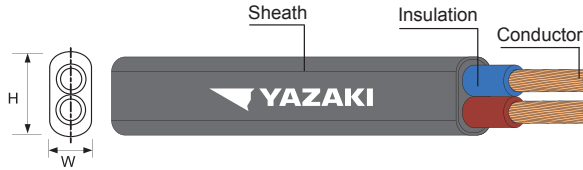
For installation exposed, or in raceway, wet or dry location.

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

B

60227 IEC 52 VKF

300/300 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, FLAT TYPE



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification : Blue, Brown

Sheath : Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

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

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

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 5-2553 Table 7

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

B

Number of cores	Nominal cross sectional area	Conductor Type	Insulation 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
					W x H minimum	W x H maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.5	Flexible	0.5	0.6	3.0 x 4.9	3.7 x 5.9	39.0	0.012	3	28	100/C
	0.75	Flexible	0.5	0.6	3.2 x 5.2	3.8 x 6.3	26.0	0.010	6	35	100/C

C = Packing in Coil

60227 IEC 52

300/300 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, ROUND TYPE

TIS 11 Part 5-2553

CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification :
2 Cores Blue, Brown
3 Cores Brown, Black, Grey

Sheath : Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

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

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

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 5-2553 Table 7

APPLICATION

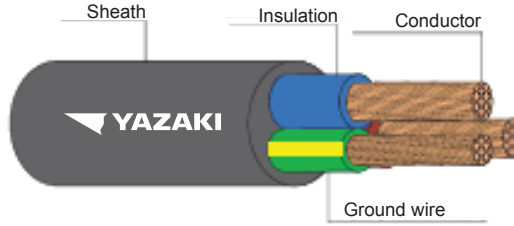
For household appliances, electrical eauipment and electrcal illumination.

Number of cores	Nominal cross sectional area	Conductor Type	Insulation 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
					minimum	maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.5	Flexible	0.5	0.6	4.6	5.9	39.0	0.012	3	40	100/C
	0.75	Flexible	0.5	0.6	4.9	6.3	26.0	0.010	6	48	100/C
3	0.5	Flexible	0.5	0.6	4.9	6.3	39.0	0.012	3	47	100/C
	0.75	Flexible	0.5	0.6	5.2	6.7	26.0	0.010	6	58	100/C

B

60227 IEC 52

300/300 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED WITH GROUND, ROUND TYPE



TIS 11 Part 5-2553

CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification : Blue, Brown + Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

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

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

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 5-2553 Table 7

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

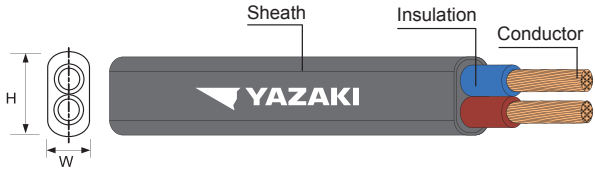
B

Number of cores	Conductor				Insulation thickness nominal	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) maximum	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)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2+G	0.5	0.5	Flexible		0.5	0.6	4.9	6.3	39.0	39.0	0.012	3	47	100/C
	0.75	0.75	Flexible		0.5	0.6	5.2	6.7	26.0	26.0	0.010	6	60	100/C

C = Packing in coil

60227 IEC 53 VKF

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, FLAT TYPE



TIS 11 Part 5-2553

CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification : Blue, Brown

Sheath : Black polyvinyl chloride (PVC/ST5)

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 5-2553 Table 9

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

Number of cores	Nominal cross sectional area	Conductor Type	Insulation 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
					W x H minimum	W x H maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.75	Flexible	0.6	0.8	3.7 x 6.0	4.5 x 7.2	26.0	0.011	6	43	100/C
	1	Flexible	0.6	0.8	3.9 x 6.2	4.7 x 7.5	19.5	0.010	10	50	100/C

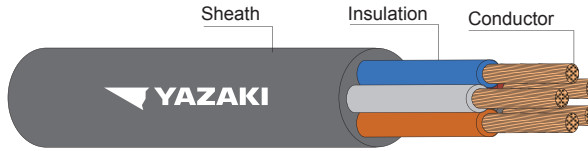
C = Packing in Coil

B

60227 IEC 53

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, ROUND TYPE

TIS 11 Part 5-2553



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification :

2 Cores	Blue, Brown
3 Cores	Brown, Black, Grey
4 Cores	Blue, Brown, Black and Grey
5 Cores	Blue, Brown, Black, Grey, Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST5)

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 5-2553 Table 9

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

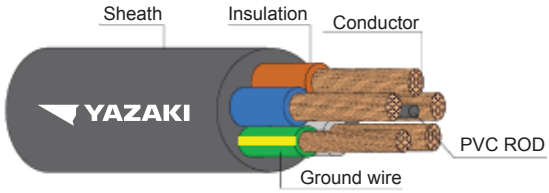
B

Number of cores	Nominal cross sectional area	Conductor Type	Insulation 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
					minimum	maximum					
	(mm²)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.75	Flexible	0.6	0.8	5.7	7.2	26.0	0.011	6	60	100/C
	1	Flexible	0.6	0.8	5.9	7.5	19.5	0.010	10	70	100/C
	1.5	Flexible	0.7	0.8	6.8	8.6	13.3	0.010	16	90	100/C
	2.5	Flexible	0.8	1.0	8.4	10.6	7.98	0.009	25	140	100/C
3	0.75	Flexible	0.6	0.8	6.0	7.6	26.0	0.011	6	70	100/C
	1	Flexible	0.6	0.8	6.3	8.0	19.5	0.010	10	80	100/C
	1.5	Flexible	0.7	0.8	7.4	9.4	13.3	0.010	16	110	100/C
	2.5	Flexible	0.8	1.0	9.2	11.4	7.98	0.009	20	180	100/C
4	0.75	Flexible	0.6	0.8	6.6	8.3	26.0	0.011	6	85	100/C
	1	Flexible	0.6	0.8	7.1	9.0	19.5	0.010	10	100	100/C
	1.5	Flexible	0.7	0.8	8.4	10.5	13.3	0.010	16	140	100/C
	2.5	Flexible	0.8	1.0	10.1	12.5	7.98	0.009	20	210	100/C
5	0.75	Flexible	0.6	0.8	7.4	9.3	26.0	0.011	6	100	100/C
	1	Flexible	0.6	0.8	7.8	9.8	19.5	0.010	10	120	100/C
	1.5	Flexible	0.7	1.1	9.3	11.6	13.3	0.010	16	170	100/C
	2.5	Flexible	0.8	1.2	11.2	13.9	7.98	0.009	20	260	100/C

C = Packing in Coil

60227 IEC 53

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, ROUND TYPE



TIS 11 Part 5-2553

CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification :

2 Cores + G : Blue, Brown + Green/Yellow
3 Cores + G : Brown, Black, Grey + Green/Yellow
4 Cores + G : Blue, Brown, Black, Grey + Green/Yellow

Outer sheath : Black polyvinyl chloride (PVC/ST5)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°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 5-2553 Table 9

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

Number of cores	Conductor				Insulation thickness nominal	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) maximum	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)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2+G	0.75	0.75	Flexible		0.6	0.8	6.0	7.6	26.0	26.0	0.011	6	70	100/C
	1	1	Flexible		0.6	0.8	6.3	8.0	19.5	19.5	0.010	10	80	100/C
	1.5	1.5	Flexible		0.7	0.9	7.4	9.4	13.3	13.3	0.010	16	120	100/C
	2.5	2.5	Flexible		0.8	1.1	9.2	11.4	7.98	7.98	0.009	25	180	100/C
3+G	0.75	0.75	Flexible		0.6	0.8	6.6	8.3	26.0	26.0	0.011	6	85	100/C
	1	1	Flexible		0.6	0.9	7.1	9.0	19.5	19.5	0.010	10	100	100/C
	1.5	1.5	Flexible		0.7	1.0	8.4	10.5	13.3	13.3	0.010	16	140	100/C
	2.5	2.5	Flexible		0.8	1.1	10.1	12.5	7.98	7.98	0.009	20	220	100/C
4+G	0.75	0.75	Flexible		0.6	0.9	7.4	9.3	26.0	26.0	0.011	6	100	100/C
	1	1	Flexible		0.6	0.9	7.8	9.8	19.5	19.5	0.010	10	120	100/C
	1.5	1.5	Flexible		0.7	1.1	9.3	11.6	13.3	13.3	0.010	16	180	100/C
	2.5	2.5	Flexible		0.8	1.2	11.2	13.9	7.98	7.98	0.009	20	260	100/C

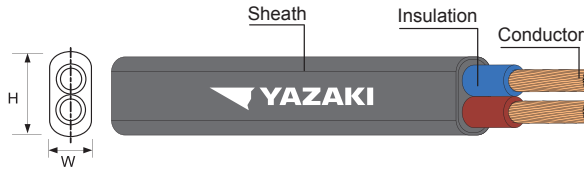
C = Packing in Coil

B

60227 IEC 56 HVKF

300/300 V 90°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, FLAT TYPE

TIS 11 Part 5-2553



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/E)

Core identification : Blue, Brown

Sheath : Black polyvinyl chloride (PVC/ST10)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 300/300 Volts

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

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 5-2553 Table 11

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

B

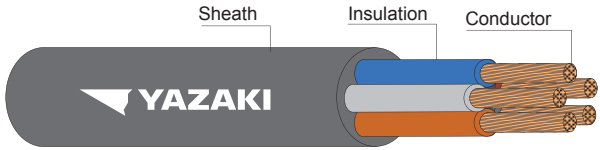
Number of cores	Nominal cross sectional area	Conductor Type	Insulation thickness nominal	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 90°C minimum	Continuous current rating lin free air 40°C maximum	Cable weight approx.	Standard Length
					W x H minimum	W x H maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.50	Flexible	0.5	0.6	3.0 x 4.9	3.7 x 5.9	39.0	0.012	3	28	100/C
	0.75	Flexible	0.5	0.6	3.2 x 5.2	3.8 x 6.3	26.0	0.010	6	35	100/C

C = Packing in Coil

60227 IEC 56

300/300 V 90°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, ROUND TYPE

TIS 11 Part 5-2553



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/E)

Core identification :
2 Cores Blue, Brown
3 Cores Brown, Black, Grey

Sheath : Black polyvinyl chloride (PVC/ST10)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 300/300 Volts

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

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 5-2553 Table 11

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

Number of cores	Nominal cross sectional area	Conductor Type	Insulation thickness nominal	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 90°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
					minimum	maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.5	Flexible	0.5	0.6	4.6	5.9	39.0	0.012	3	38	100/C
	0.75	Flexible	0.5	0.6	4.9	6.3	26.0	0.010	6	46	100/C
3	0.5	Flexible	0.5	0.6	4.9	6.3	39.0	0.012	3	44	100/C
	0.75	Flexible	0.5	0.6	5.2	6.7	26.0	0.010	6	55	100/C

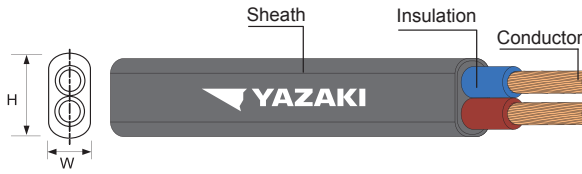
C = Packing in Coil

B

60227 IEC 57 HVKF

300/500 V 90°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, FLAT TYPE

TIS 11 Part 5-2553



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/E)

Core identification : Blue, Brown

Sheath : Black polyvinyl chloride (PVC/ST10)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°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 5-2553 Table 13

B

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

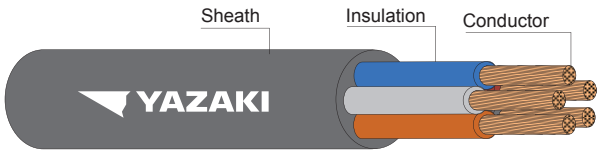
Number of cores	Nominal cross sectional area	Conductor Type	Insulation thickness nominal	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 90°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
					W x H minimum	W x H maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.75	Flexible	0.6	0.8	3.7 x 6.0	4.5 x 7.2	26.0	0.011	6	42	100/C
	1	Flexible	0.6	0.8	3.9 x 6.2	4.7 x 7.5	19.5	0.010	10	50	100/C

C = Packing in Coil

60227 IEC 57

300/500 V 90°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH, ROUND TYPE

TIS 11 Part 5-2553



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/E)

Core identification :

2 Cores	Blue, Brown
3 Cores	Brown, Black, Grey
4 Cores	Blue, Brown, Black, Grey
5 Cores	Blue, Brown, Black, Grey, Green/Yellow

Sheath : Black polyvinyl chloride (PVC/ST10)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°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 5-2553 Table 13

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

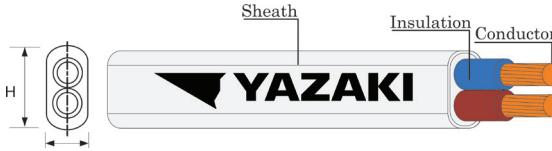
Number of cores	Nominal cross sectional area	Conductor Type	Insulation thickness nominal	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 90°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
					minimum	maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	0.75	Flexible	0.6	0.8	5.7	7.2	26.0	0.011	6	57	100/C
	1	Flexible	0.6	0.8	5.9	7.5	19.5	0.010	10	66	100/C
	1.5	Flexible	0.7	0.8	6.8	8.6	13.3	0.010	16	89	100/C
	2.5	Flexible	0.8	1.0	8.4	10.6	7.98	0.009	25	135	100/C
3	0.75	Flexible	0.6	0.8	6.0	7.6	26.0	0.011	6	66	100/C
	1	Flexible	0.6	0.8	6.3	8.0	19.5	0.010	10	78	100/C
	1.5	Flexible	0.7	0.9	7.4	9.4	13.3	0.010	16	110	100/C
	2.5	Flexible	0.8	1.0	9.2	11.4	7.98	0.009	20	170	100/C
4	0.75	Flexible	0.6	0.8	6.6	8.3	26.0	0.011	16	80	100/C
	1	Flexible	0.6	0.9	7.1	9.0	19.5	0.010	10	99	100/C
	1.5	Flexible	0.7	1.0	8.4	10.5	13.3	0.010	16	140	100/C
	2.5	Flexible	0.8	1.1	10.1	12.5	7.98	0.009	20	205	100/C
5	0.75	Flexible	0.6	0.9	7.4	9.3	26.0	0.011	6	99	100/C
	1	Flexible	0.6	0.9	7.8	9.8	19.5	0.010	10	120	100/C
	1.5	Flexible	0.7	1.1	9.3	11.6	13.3	0.010	16	170	100/C
	2.5	Flexible	0.8	1.2	11.2	13.9	7.98	0.009	20	250	100/C

C = Packing in Coil

VAF

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND SHEATH, FLAT TYPE

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and staranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Blue, Brown

Sheath : White 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 101-2559 Table 1

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

B

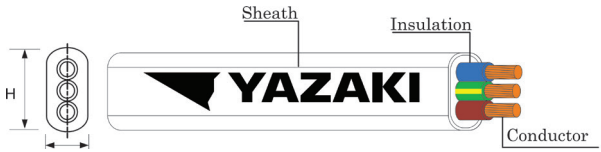
Number of cores	Nominal cross sectional area	Conduc-tor Type	Insulation thickness nominal	Outer sheath thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
					W x H minimum	W x H maximum					
	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2	1	Solid	0.6	0.9	4.0 x 6.2	4.7 x 7.4	18.1	0.0110	14	50	100/C
	1.5	Solid	0.7	0.9	4.4 x 7.0	5.4 x 8.4	12.1	0.0110	17	70	100/C
	2.5	Solid	0.8	1.0	5.2 x 8.4	6.2 x 9.8	7.41	0.0100	23	100	100/C
	4	Standard	0.8	1.1	5.6 x 9.6	7.2 x 11.5	4.61	0.0077	32	150	100/C
	6	Standard	0.8	1.1	6.4 x 10.5	8.0 x 13.0	3.08	0.0065	41	200	100/C
	10	Standard	1.0	1.2	7.8 x 13.0	9.6 x 16.0	1.83	0.0065	56	310	100/C
	16	Standard	1.0	1.3	9.0 x 15.5	11.0 x 18.5	1.15	0.0052	74	450	100/C

C = Packing in Coil

VAF-G

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

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and staranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Blue, Brown + Green/Yellow

Sheath : White 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 101-2559 Table 1

APPLICATION

For household appliances, electrical eauipment and electrcal illumination.

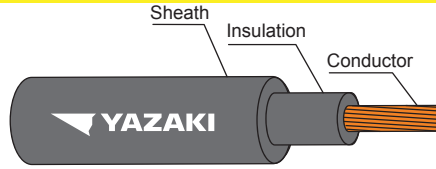
Number of cores	Nominal cross sectional area		Conductor Type	Insulation thickness nominal	Outer sheath thickness nominal	Overall diameter		Conductor re-sistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous current rating in free air 40°C maximum	Cable weight approx.	Standard Length
	Phase	Ground				W x H minimum	W x H maximum	Phase	Ground				
	(mm^2)	(mm^2)		(mm)	(mm)	(mm)	(mm)	(Ω/km))	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
2+G	1	1	Solid	0.6	0.9	4.0 x 6.2	4.7 x 7.4	18.1	18.1	0.0110	14	75	100/C
	1.5	1.5	Solid	0.7	0.9	4.4 x 7.0	5.4 x 8.4	12.1	12.1	0.0110	17	100	100/C
	2.5	2.5	Solid	0.8	1.0	5.2 x 8.4	6.2 x 9.8	7.41	7.41	0.0100	23	150	100/C
	4	4	Standard	0.8	1.1	5.6 x 9.6	7.2 x 11.5	4.61	4.61	0.0077	32	220	100/C
	6	6	Standard	0.8	1.1	6.4 x 10.5	8.0 x 13.0	3.08	3.08	0.0065	41	290	100/C
	10	10	Standard	1.0	1.2	7.8 x 13.0	9.6 x 16.0	1.83	1.83	0.0065	56	460	100/C
	16	16	Standard	1.0	1.3	9.0 x 15.5	11.0 x 18.5	1.15	1.15	0.0052	74	650	500/D

C = Packing in Coil
D = Packing in drum

B

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, SINGLE CORE



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Black

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 3

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

B

Cable name	Number x Size of conductor	Conductor Type	Insulation thickness nominal	Sheat thickness nominal	Overall diameter maximum	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous currunt rating in free air at 40°C maximum (A)			Continuous currunt rating in ground at 30°C maximum	Cable weight approx.	Standard Length
								Spaced	Touching	Trefoil			
	(No. x mm²)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)				(A)	(kg/km)	(m)
NYY	1×1	Solid	1.5	1.8	8.6	18.1	0.0207	19	16	15	21	86	100/C
	1×1	Non-compacted	1.5	1.8	8.8	18.1	0.0200	19	16	15	21	88	100/C
	1×1.5	Solid	1.5	1.8	9.0	12.1	0.0184	24	19	19	26	93	100/C
	1×1.5	Non-compacted	1.5	1.8	9.2	12.1	0.0175	24	19	19	26	98	100/C
	1×2.5	Solid	1.5	1.8	9.4	7.41	0.0157	32	24	26	35	109	100/C
	1×2.5	Non-compacted	1.5	1.8	9.8	7.41	0.0146	32	24	26	35	115	100/C
	1×4	Solid	1.5	1.8	10.0	4.61	0.0135	42	33	34	45	130	100/C
	1×4	Non-compacted	1.5	1.8	10.5	4.61	0.0124	42	33	34	45	137	100/C
YK NYY	1×6	Non-compacted	1.5	1.8	11.0	3.08	0.0107	54	42	43	57	159	1000/D
	1×10	Non-compacted	1.5	1.8	12.0	1.83	0.0088	73	57	59	76	210	1000/D
	1×16	Compacted	1.5	1.8	13.0	1.15	0.0074	96	76	78	99	273	1000/D
	1×25	Compacted	1.5	1.8	14.5	0.727	0.0061	127	99	96	128	372	1000/D
	1×35	Compacted	1.5	1.8	16.0	0.524	0.0053	157	124	119	154	472	1000/D
	1×50	Compacted	1.5	1.8	17.0	0.387	0.0046	191	151	145	181	600	1000/D
	1×70	Compacted	1.5	1.8	19.0	0.268	0.0039	244	196	188	223	800	1000/D
	1×95	Compacted	1.7	1.8	21.5	0.193	0.0038	297	239	230	267	1074	1000/D
	1×120	Compacted	1.7	1.8	23.0	0.153	0.0034	345	279	268	304	1314	1000/D
	1×150	Compacted	1.9	2.0	26.0	0.124	0.0034	397	324	310	342	1609	1000/D
	1×185	Compacted	2.1	2.0	28.0	0.0991	0.0034	453	371	356	386	1991	1000/D
	1×240	Compacted	2.3	2.2	31.5	0.0754	0.0033	535	441	422	448	2576	1000/D
NYY	1×300	Non-compacted	2.5	2.2	35.0	0.0601	0.0032	617	511	488	507	3420	500/D
	1×400	Non-compacted	2.7	2.2	38.5	0.0470	0.0030	741	599	571	577	4301	500/D
	1×500	Non-compacted	3.1	2.4	43.0	0.0366	0.0031	854	686	652	654	5422	500/D

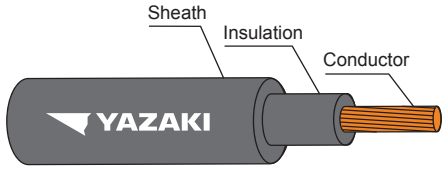
C = Packing in Coil
D = Packing in drum

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, SINGLE CORE

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Black

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 3

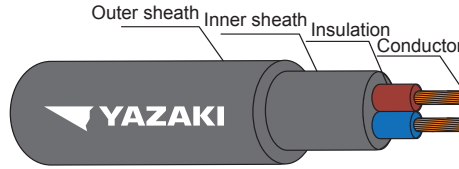
APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
			Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
NYY	1×1	Solid	21.6567	21.6567	21.6567	0.7840	0.6454	0.5991	0.2463	0.2028	0.1882	21.6581	21.6576	21.6575
	1×1	Non-compacted	21.6567	21.6567	21.6567	0.7740	0.6353	0.5891	0.2432	0.1996	0.1851	21.6581	21.6576	21.6575
	1×1.5	Solid	14.4777	14.4777	14.4777	0.7485	0.6099	0.5637	0.2351	0.1916	0.1771	14.4796	14.4790	14.4788
	1×1.5	Non-compacted	14.4777	14.4777	14.4777	0.7388	0.6001	0.5539	0.2321	0.1885	0.1740	14.4796	14.4789	14.4787
	1×2.5	Solid	8.8661	8.8661	8.8661	0.7063	0.5677	0.5214	0.2219	0.1783	0.1638	8.8689	8.8679	8.8676
	1×2.5	Non-compacted	8.8661	8.8661	8.8661	0.7025	0.5639	0.5176	0.2207	0.1772	0.1626	8.8688	8.8679	8.8676
	1×4	Solid	5.5159	5.5159	5.5159	0.6698	0.5312	0.4850	0.2104	0.1669	0.1524	5.5199	5.5184	5.5180
	1×4	Non-compacted	5.5159	5.5159	5.5159	0.6649	0.5263	0.4801	0.2089	0.1653	0.1508	5.5199	5.5184	5.5180
YK NYY	1×6	Non-compacted	3.6852	3.6852	3.6852	0.6360	0.4974	0.4512	0.1998	0.1563	0.1417	3.6906	3.6885	3.6879
	1×10	Non-compacted	2.1896	2.1896	2.1896	0.5999	0.4612	0.4150	0.1885	0.1449	0.1304	2.1977	2.1944	2.1935
	1×16	Compacted	1.3760	1.3761	1.3761	0.5702	0.4315	0.3853	0.1791	0.1356	0.1210	1.3876	1.3827	1.3814
	1×25	Compacted	0.8700	0.8700	0.8700	0.5450	0.4064	0.3602	0.1712	0.1277	0.1132	0.8866	0.8793	0.8773
	1×35	Compacted	0.6271	0.6272	0.6272	0.5175	0.3789	0.3327	0.1626	0.1190	0.1045	0.6478	0.6384	0.6358
	1×50	Compacted	0.4632	0.4633	0.4634	0.5023	0.3637	0.3175	0.1578	0.1143	0.0997	0.4894	0.4772	0.4740
	1×70	Compacted	0.3210	0.3211	0.3212	0.4862	0.3476	0.3014	0.1527	0.1092	0.0947	0.3555	0.3391	0.3348
	1×95	Compacted	0.2313	0.2315	0.2317	0.4772	0.3386	0.2923	0.1499	0.1064	0.0918	0.2757	0.2548	0.2492
	1×120	Compacted	0.1836	0.1838	0.1840	0.4664	0.3278	0.2816	0.1465	0.1030	0.0885	0.2349	0.2107	0.2420
	1×150	Compacted	0.1490	0.1493	0.1496	0.4663	0.3276	0.2814	0.1465	0.1029	0.0884	0.2090	0.1814	0.1737
	1×185	Compacted	0.1194	0.1198	0.1201	0.4622	0.3235	0.2773	0.1452	0.1016	0.0871	0.1880	0.1571	0.1484
	1×240	Compacted	0.0913	0.0918	0.0922	0.4568	0.3182	0.2719	0.1435	0.1000	0.0854	0.1701	0.1357	0.1257
NYY	1×300	Non-compacted	0.0733	0.0740	0.0745	0.4517	0.3131	0.2668	0.1419	0.0984	0.0838	0.1597	0.1231	0.1121
	1×400	Non-compacted	0.0580	0.0589	0.0596	0.4465	0.3079	0.2617	0.1403	0.0967	0.0822	0.1518	0.1133	0.1015
	1×500	Non-compacted	0.0460	0.0471	0.0480	0.4460	0.3074	0.2612	0.1401	0.0966	0.0821	0.1475	0.1074	0.0951

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, TWO CORES



TIS 11 Part 101-2559

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 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 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

B

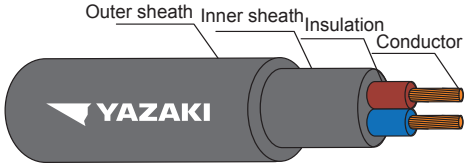
Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous currunt rating in free air at 40°C maximum (A)	Continuous currunt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
NYY	2×1	Solid	0.8	0.8	1.8	12.0	18.1	0.0141	15	21	163	100/C
	2×1	Non-compacted	0.8	0.8	1.8	12.5	18.1	0.0135	15	21	172	100/C
	2×1.5	Solid	0.8	0.8	1.8	12.5	12.1	0.0123	19	27	184	100/C
	2×1.5	Non-compacted	0.8	0.8	1.8	13.0	12.1	0.0116	19	27	196	100/C
	2×2.5	Solid	0.8	0.8	1.8	13.5	7.41	0.0102	26	35	222	100/C
	2×2.5	Non-compacted	0.8	0.8	1.8	14.0	7.41	0.0093	26	35	239	100/C
	2×4	Solid	0.9	0.8	1.8	15.0	4.61	0.0094	35	47	287	100/C
	2×4	Non-compacted	0.9	0.8	1.8	15.5	4.61	0.0085	35	47	307	100/C
	2×6	Non-compacted	0.9	0.8	1.8	17.0	3.08	0.0073	44	60	380	100/C
	2×10	Non-compacted	1.1	0.8	1.8	19.5	1.83	0.0069	61	81	546	500/D
YK NYY	2×16	Compacted	1.1	0.8	2.0	22.5	1.15	0.0057	82	105	683	1000/D
	2×25	Compacted	1.3	1.2	2.0	27.0	0.727	0.0054	104	136	1022	1000/D
	2×35	Compacted	1.3	1.2	2.0	29.5	0.524	0.0047	129	165	1269	1000/D
	2×50	Compacted	1.5	1.2	2.2	33.5	0.387	0.0046	157	195	1718	1000/D
	2×70	Compacted	1.5	1.5	2.2	38.0	0.268	0.0039	202	239	2296	1000/D
NYY	2×95	Non-compacted	1.7	1.5	2.2	42.5	0.193	0.0038	245	288	3294	500/D
	2×120	Non-compacted	1.7	1.5	2.4	46.5	0.153	0.0034	285	329	4026	500/D
	2×150	Non-compacted	1.9	1.8	2.6	52.0	0.124	0.0034	330	368	4947	500/D
	2×185	Non-compacted	2.1	1.8	2.8	57.0	0.0991	0.0034	378	417	6100	500/D
	2×240	Non-compacted	2.3	2.0	3.0	64.0	0.0754	0.0033	447	481	7861	300/D
	2×300	Non-compacted	2.5	2.0	3.2	70.5	0.0601	0.0032	516	541	9661	300/D

C = Packing in Coil
D = Packing in drum

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, TWO CORES



TIS 11 Part 101-2559

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 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 4

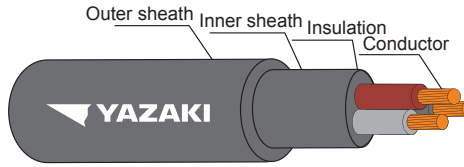
APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
NYY	2×1	Solid	21.7000	0.3771	0.1185	21.7000
	2×1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	2×1.5	Solid	14.5000	0.3505	0.1101	14.5000
	2×1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	2×2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2×2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	2×4	Solid	5.5200	0.3135	0.0985	5.5210
	2×4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	2×6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	2×10	Non-compacted	2.1900	0.2801	0.0880	2.1920
YK NYY	2×16	Compacted	1.3800	0.2631	0.0827	1.3820
	2×25	Compacted	0.8700	0.2607	0.0819	0.8738
	2×35	Compacted	0.6272	0.2593	0.0814	0.6325
	2×50	Compacted	0.4634	0.2604	0.0818	0.4706
	2×70	Compacted	0.3212	0.2506	0.0787	0.3307
NYY	2×95	Non-compacted	0.2317	0.2480	0.0779	0.2444
	2×120	Non-compacted	0.1840	0.2409	0.0757	0.1990
	2×150	Non-compacted	0.1495	0.2402	0.0755	0.1675
	2×185	Non-compacted	0.1201	0.2401	0.0754	0.1418
	2×240	Non-compacted	0.0922	0.2361	0.0742	0.1183
	2×300	Non-compacted	0.0744	0.2343	0.0736	0.1047

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, THREE CORES



TIS 11 Part 101-2559

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 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 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

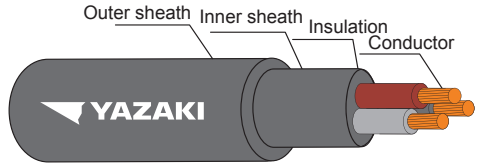
B

Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer 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 currunt rating in free air at 40°C maximum (A)	Continuous currunt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
NYY	3×1	Solid	0.8	0.8	1.8	12.5	18.1	0.0141	13	18	184	100/C
	3×1	Non-compacted	0.8	0.8	1.8	13.0	18.1	0.0135	13	18	190	100/C
	3×1.5	Solid	0.8	0.8	1.8	13.0	12.1	0.0123	16	22	206	100/C
	3×1.5	Non-compacted	0.8	0.8	1.8	13.5	12.1	0.0116	16	22	221	100/C
	3×2.5	Solid	0.8	0.8	1.8	14.0	7.41	0.0102	22	30	255	100/C
	3×2.5	Non-compacted	0.8	0.8	1.8	15.0	7.41	0.0093	22	30	274	100/C
	3×4	Solid	0.9	0.8	1.8	15.5	4.61	0.0094	30	39	336	100/C
	3×4	Non-compacted	0.9	0.8	1.8	16.5	4.61	0.0085	30	39	358	100/C
	3×6	Non-compacted	0.9	0.8	1.8	18.0	3.08	0.0073	37	50	450	100/C
	3×10	Non-compacted	1.1	0.8	1.8	20.5	1.83	0.0069	52	68	656	500/D
YK NYY	3×16	Compacted	1.1	1.2	2.0	24.5	1.15	0.0057	70	87	891	1000/D
	3×25	Compacted	1.3	1.2	2.0	28.5	0.727	0.0054	88	128	1281	1000/D
	3×35	Compacted	1.3	1.2	2.0	31.5	0.524	0.0047	110	154	1614	1000/D
	3×50	Compacted	1.5	1.5	2.2	36.0	0.387	0.0046	133	181	2211	1000/D
	3×70	Compacted	1.5	1.5	2.2	40.5	0.268	0.0039	171	223	2916	1000/D
NYY	3×95	Non-compacted	1.7	1.5	2.4	46.0	0.193	0.0038	207	267	4231	500/D
	3×120	Non-compacted	1.7	1.8	2.6	50.5	0.153	0.0034	240	304	5254	500/D
	3×150	Non-compacted	1.9	1.8	2.8	56.0	0.124	0.0034	278	342	6371	500/D
	3×185	Non-compacted	2.1	2.0	3.0	61.5	0.0991	0.0034	317	386	7937	300/D
	3×240	Non-compacted	2.3	2.0	3.2	69.0	0.0754	0.0033	374	448	10160	300/D
	3×300	Non-compacted	2.5	2.2	3.4	76.0	0.0601	0.0032	432	507	12587	200/D

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, THREE CORES

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : 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 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 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

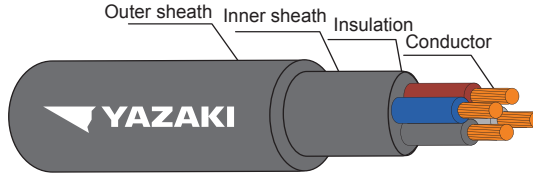
Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
NYY	3×1	Solid	21.7000	0.3771	0.1185	21.7000
	3×1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	3×1.5	Solid	14.5000	0.3505	0.1101	14.5000
	3×1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	3×2.5	Solid	8.8700	0.3238	0.1017	8.8710
	3×2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	3×4	Solid	5.5200	0.3135	0.0985	5.5210
	3×4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	3×6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	3×10	Non-compacted	2.1900	0.2801	0.0880	2.1920
YK NYY	3×16	Compacted	1.3800	0.2631	0.0827	1.3820
	3×25	Compacted	0.8700	0.2607	0.0819	0.8738
	3×35	Compacted	0.6273	0.2593	0.0814	0.6326
	3×50	Compacted	0.4635	0.2604	0.0818	0.4707
	3×70	Compacted	0.3213	0.2506	0.0787	0.3308
NYY	3×95	Non-compacted	0.2319	0.2480	0.0779	0.2446
	3×120	Non-compacted	0.1843	0.2409	0.0757	0.1992
	3×150	Non-compacted	0.1499	0.2402	0.0755	0.1678
	3×185	Non-compacted	0.1205	0.2401	0.0754	0.1422
	3×240	Non-compacted	0.0928	0.2361	0.0742	0.1188
	3×300	Non-compacted	0.0751	0.2343	0.0736	0.1052

B

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, FOUR CORES

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : 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 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 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

B

Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer 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 currunt rating in free air at 40°C maximum (A)	Continuous currunt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
NYY	4×1	Solid	0.8	0.8	1.8	13.5	18.1	0.0141	13	18	210	100/C
	4×1	Non-compacted	0.8	0.8	1.8	14.0	18.1	0.0135	13	18	218	100/C
	4×1.5	Solid	0.8	0.8	1.8	14.0	12.1	0.0123	16	22	239	100/C
	4×1.5	Non-compacted	0.8	0.8	1.8	14.5	12.1	0.0116	16	22	255	100/C
	4×2.5	Solid	0.8	0.8	1.8	15.0	7.41	0.0102	22	30	299	100/C
	4×2.5	Non-compacted	0.8	0.8	1.8	16.0	7.41	0.0093	22	30	321	100/C
	4×4	Solid	0.9	0.8	1.8	17.0	4.61	0.0094	30	39	400	100/C
	4×4	Non-compacted	0.9	0.8	1.8	17.5	4.61	0.0085	30	39	426	100/C
	4×6	Non-compacted	0.9	0.8	1.8	19.0	3.08	0.0073	37	50	550	500/D
	4×10	Non-compacted	1.1	0.8	2.0	23.0	1.83	0.0069	52	68	831	500/D
YK NYY	4×16	Compacted	1.1	1.2	2.0	26.5	1.15	0.0057	70	87	1103	1000/D
	4×25	Compacted	1.3	1.2	2.0	31.0	0.727	0.0054	88	128	1597	1000/D
	4×35	Compacted	1.3	1.5	2.2	35.0	0.524	0.0047	110	154	2105	1000/D
	4×50	Compacted	1.5	1.5	2.2	39.5	0.387	0.0046	133	181	2778	1000/D
	4×70	Compacted	1.5	1.5	2.4	44.5	0.268	0.0039	171	223	3728	800/D
NYY	4×95	Non-compacted	1.7	1.8	2.6	51.5	0.193	0.0038	207	267	5454	500/D
	4×120	Non-compacted	1.7	1.8	2.8	56.0	0.153	0.0034	240	304	6713	500/D
	4×150	Non-compacted	1.9	2.0	3.0	62.0	0.124	0.0034	278	342	8193	300/D
	4×185	Non-compacted	2.1	2.0	3.2	68.0	0.0991	0.0034	317	386	10146	300/D
	4×240	Non-compacted	2.3	2.2	3.4	76.5	0.0754	0.0033	374	448	13047	200/D
	4×300	Non-compacted	2.5	2.2	3.8	85.0	0.0601	0.0032	432	507	16199	200/D

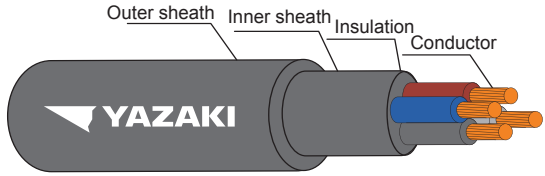
C = Packing in Coil
D = Packing in drum

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY or YK NYY

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED, FOUR CORES

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : 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 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 4

APPLICATION

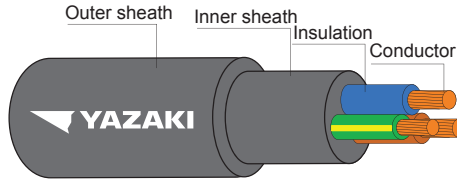
For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm²)	Conductor Type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
NYY	4×1	Solid	21.7000	0.3771	0.1185	21.7000
	4×1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	4×1.5	Solid	14.5000	0.3505	0.1101	14.5000
	4×1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	4×2.5	Solid	8.8700	0.3238	0.1017	8.8710
	4×2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	4×4	Solid	5.5200	0.3135	0.0985	5.5210
	4×4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	4×6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	4×10	Non-compacted	2.1900	0.2801	0.0880	2.1920
YK NYY	4×16	Compacted	1.3800	0.2631	0.0827	1.3820
	4×25	Compacted	0.8700	0.2607	0.0819	0.8738
	4×35	Compacted	0.6273	0.2593	0.0814	0.6326
	4×50	Compacted	0.4635	0.2604	0.0818	0.4707
	4×70	Compacted	0.3213	0.2506	0.0787	0.3308
NYY	4×95	Non-compacted	0.2319	0.2480	0.0779	0.2446
	4×120	Non-compacted	0.1843	0.2409	0.0757	0.1992
	4×150	Non-compacted	0.1499	0.2402	0.0755	0.1678
	4×185	Non-compacted	0.1205	0.2401	0.0754	0.1422
	4×240	Non-compacted	0.0928	0.2361	0.0742	0.1188
	4×300	Non-compacted	0.0751	0.2343	0.0736	0.1052

B

NYY-G

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown + Green/Yellow

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 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 5

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

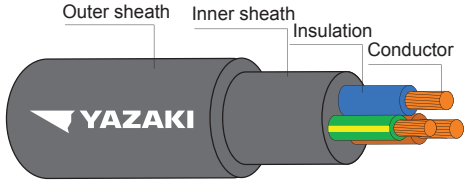
B

Number of coress	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer Sheath thick-ness nominal	Overall diameter maxi-mum	Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous currunt rating maxium		Cable weight approx.	Stan-dard Length per drum
	Nominal cross section area		Type of Conductor									on cable Ladder at 40°C	direct burial in ground at 30°C		
	Phase	Ground	Phase	Ground					Phase	Ground					
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(A)	(kg/km)	(m)
2+G	1	1	Solid		0.8	0.8	1.8	13.0	18.1	18.1	0.0141	15	21	184	500
	1	1	Non-compacted		0.8	0.8	1.8	13.5	18.1	18.1	0.0135	15	21	190	500
	1.5	1.5	Solid		0.8	0.8	1.8	13.5	12.1	12.1	0.0123	19	27	206	500
	1.5	1.5	Non-compacted		0.8	0.8	1.8	14.0	12.1	12.1	0.0116	19	27	221	500
	2.5	2.5	Solid		0.8	0.8	1.8	14.5	7.41	7.41	0.0102	26	35	255	500
	2.5	2.5	Non-compacted		0.8	0.8	1.8	15.0	7.41	7.41	0.0093	26	35	273	500
	4	4	Solid		0.9	0.8	1.8	16.0	4.61	4.61	0.0094	35	47	336	500
	4	4	Non-compacted		0.9	0.8	1.8	16.5	4.61	4.61	0.0085	35	47	358	500
	6	6	Non-compacted		0.9	0.8	1.8	18.0	3.08	3.08	0.0073	44	60	450	500
	10	10	Non-compacted		1.1	0.8	1.8	21.0	1.83	1.83	0.0069	61	81	655	500
	16	16	Non-compacted		1.1	0.8	2.0	23.5	1.15	1.15	0.0057	82	105	912	500
	25	16	Non-compacted		1.3	1.2	2.0	28.0	0.727	1.15	0.0054	104	136	1212	500
	35	16	Non-compacted		1.3	1.2	2.0	30.0	0.524	1.15	0.0047	129	165	1506	500
	50	25	Non-compacted		1.5	1.2	2.2	34.0	0.387	0.727	0.0046	157	195	1978	500
	70	35	Non-compacted		1.5	1.5	2.2	38.5	0.268	0.524	0.0039	202	239	2736	500
	95	50	Non-compacted		1.7	15	2.2	43.5	0.193	0.387	0.0038	245	288	3602	500
	120	70	Non-compacted		1.7	1.5	2.4	47.5	0.153	0.268	0.0034	285	329	4525	500
	150	95	Non-compacted		1.9	1.8	2.6	53.0	0.124	0.193	0.0034	330	368	5695	500
	185	95	Non-compacted		2.1	1.8	2.8	57.5	0.0991	0.193	0.0034	378	417	6737	500
	240	120	Non-compacted		2.3	2.0	3.0	64.5	0.0754	0.153	0.0033	447	481	8638	500
	300	150	Non-compacted		2.5	2.0	3.2	71.0	0.0601	0.124	0.0032	516	541	10601	300

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY-G

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and staranded annealed copper

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown + Green/Yellow

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 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 5

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

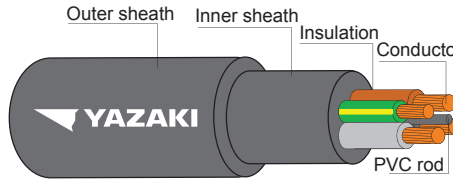
Number of coress	Nominal cross section area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase (mm^2)	Ground (mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
2+G	1	1	21.7000	0.3771	0.1185	21.7000
	1	1	21.7000	0.3651	0.1147	21.7000
	1.5	1.5	14.5000	0.3505	0.1101	14.5000
	1.5	1.5	14.5000	0.3402	0.1069	14.5000
	2.5	2.5	8.8700	0.3238	0.1017	8.8710
	2.5	2.5	8.8700	0.3160	0.0993	8.8710
	4	4	5.5200	0.3135	0.0985	5.5210
	4	4	5.5200	0.3022	0.0950	5.5210
	6	6	3.6900	0.2869	0.0901	3.6910
	10	10	2.1900	0.2801	0.0880	2.1920
	16	16	1.3800	0.2791	0.0877	1.3828
	25	16	0.8700	0.2631	0.0827	0.8739
	35	16	0.6272	0.2593	0.0814	0.6325
	50	25	0.4634	0.2604	0.0818	0.4706
	70	35	0.3212	0.2506	0.0787	0.3307
	95	50	0.2317	0.2480	0.0779	0.2444
	120	70	0.1840	0.2409	0.0757	0.1990
	150	95	0.1495	0.2402	0.0755	0.1675
	185	95	0.1201	0.2401	0.0754	0.1418
	240	120	0.0922	0.2361	0.0742	0.1183
	300	150	0.0744	0.2343	0.0736	0.1047

B

NYY-G

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND

TIS 11 Part 101-2559



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 chloride (PVC)

Outer 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 5

B

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

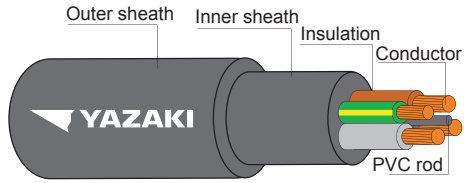
Number of coress	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer Sheath thick-ness nominal	Overall diameter maxi-mum	Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum	Continuous currunt rating maxium		Cable weight approx.	Standard Length per drum
	Nominal cross section area		Type of Conductor						Phase	Ground		on cable Ladder at 40°C	direct burial at 30°C		
	Phase (mm^2)	Ground (mm^2)	Phase	Ground	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)	(A)	(A)	(kg/km)	(m)
3+G	1	1	Solid		0.8	0.8	1.8	13.5	18.1	18.1	0.0141	13	18	210	500
	1	1	Non-compacted		0.8	0.8	1.8	14.0	18.1	18.1	0.0135	13	18	218	500
	1.5	1.5	Solid		0.8	0.8	1.8	14.0	12.1	12.1	0.0123	16	22	239	500
	1.5	1.5	Non-compacted		0.8	0.8	1.8	15.0	12.1	12.1	0.0116	16	22	255	500
	2.5	2.5	Solid		0.8	0.8	1.8	15.5	7.41	7.41	0.0102	22	30	299	500
	2.5	2.5	Non-compacted		0.8	0.8	1.8	16.0	7.41	7.41	0.0093	22	30	321	500
	4	4	Solid		0.9	0.8	1.8	17.0	4.61	4.61	0.0094	30	39	400	500
	4	4	Non-compacted		0.9	0.8	1.8	18.0	4.61	4.61	0.0085	30	39	426	500
	6	6	Non-compacted		0.9	0.8	1.8	19.0	3.08	3.08	0.0073	37	50	550	500
	10	10	Non-compacted		1.1	0.8	1.8	22.5	1.83	1.83	0.0069	52	68	810	500
	16	16	Non-compacted		1.1	1.2	2.0	26.5	1.15	1.15	0.0057	70	87	1176	500
	25	16	Non-compacted		1.3	1.2	2.0	30.5	0.727	1.15	0.0054	88	128	1537	500
	35	16	Non-compacted		1.3	1.2	2.0	33.0	0.524	1.15	0.0047	110	154	1937	500
	50	25	Non-compacted		1.5	1.5	2.2	38.5	0.387	0.727	0.0046	133	181	2603	500
	70	35	Non-compacted		1.5	1.5	2.2	42.5	0.268	0.524	0.0039	171	223	3557	500
	95	50	Non-compacted		1.7	1.5	2.4	48.5	0.193	0.387	0.0038	207	267	4745	500
	120	70	Non-compacted		1.7	1.8	2.6	53.5	0.153	0.268	0.0034	240	304	6008	500
	150	95	Non-compacted		1.9	1.8	2.8	59.0	0.124	0.193	0.0034	278	342	7437	500
	185	95	Non-compacted		2.1	2.0	3.0	64.5	0.0991	0.193	0.0034	317	386	8944	500
	240	120	Non-compacted		2.3	2.0	3.2	72.0	0.0754	0.153	0.0033	374	448	11417	300
	300	150	Non-compacted		2.5	2.2	3.4	79.5	0.0601	0.124	0.0032	432	507	14097	300

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY-G

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED WITH GROUND

TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and staranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

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

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 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 5

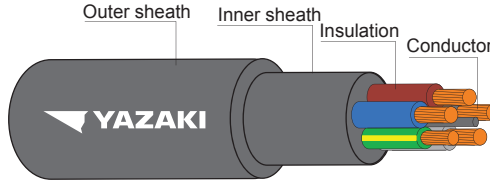
APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of coress	Nominal cross section 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	1	21.7000	0.3771	0.1185	21.7000
	1	1	21.7000	0.3651	0.1147	21.7000
	1.5	1.5	14.5000	0.3505	0.1101	14.5000
	1.5	1.5	14.5000	0.3402	0.1069	14.5000
	2.5	2.5	8.8700	0.3238	0.1017	8.8710
	2.5	2.5	8.8700	0.3160	0.0993	8.8710
	4	4	5.5200	0.3135	0.0985	5.5210
	4	4	5.5200	0.3022	0.0950	5.5210
	6	6	3.6900	0.2869	0.0901	3.6910
	10	10	2.1900	0.2801	0.0880	2.1920
	16	16	1.3800	0.2791	0.0877	1.3828
	25	16	0.8700	0.2631	0.0827	0.8739
	35	16	0.6273	0.2593	0.0814	0.6326
	50	25	0.4635	0.2604	0.0818	0.4707
	70	35	0.3213	0.2506	0.0787	0.3308
	95	50	0.2319	0.2480	0.0779	0.2446
	120	70	0.1843	0.2409	0.0757	0.1992
	150	95	0.1499	0.2402	0.0755	0.1678
	185	95	0.1205	0.2401	0.0754	0.1422
	240	120	0.0928	0.2361	0.0742	0.1188
	300	150	0.0751	0.2343	0.0736	0.1052

NYY-G

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND



TIS 11 Part 101-2559

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 chloride (PVC)

Outer sheath : Black polyvinyl choride (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 5

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

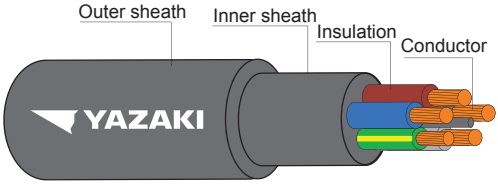
B

Number of coress	Conductor				Insulation thickness nominal	Inner sheath thickness approx.	Outer Sheath thick-ness nominal	Overall diameter maxi-mum	Conductor resistance at 20°C maximum		Insulation resis-tance at 70°C minimum	Continuous currunt rating maxium		Cable weight approx.	Standard length per drum
	Nominal cross section area		Type of Conductor						Phase	Ground		on cable Ladder at 40°C	direct burial at 30°C		
	Phase	Ground	Phase	Ground											
	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)		(A)	(A)	(kg/km)	(m)
	1	1	Solid		0.8	0.8	1.8	14.5	18.1	18.1	0.0141	13	18	246	500
	1	1	Non-compacted		0.8	0.8	1.8	15.0	18.1	18.1	0.0135	13	18	256	500
	1.5	1.5	Solid		0.8	0.8	1.8	15.0	12.1	12.1	0.0123	16	22	283	500
	1.5	1.5	Non-compacted		0.8	0.8	1.8	16.0	12.1	12.1	0.0116	16	22	301	500
	2.5	2.5	Solid		0.8	0.8	1.8	16.5	7.41	7.41	0.0102	22	30	354	500
	2.5	2.5	Non-compacted		0.8	0.8	1.8	17.0	7.41	7.41	0.0093	22	30	386	500
	4	4	Solid		0.9	0.8	1.8	18.0	4.61	4.61	0.0094	30	39	481	500
	4	4	Non-compacted		0.9	0.8	1.8	19.0	4.61	4.61	0.0085	30	39	512	500
	6	6	Non-compacted		0.9	0.8	1.8	20.5	3.08	3.08	0.0073	37	50	660	500
	10	10	Non-compacted		1.1	0.8	2.0	25.0	1.83	1.83	0.0069	52	68	1002	500
4+G	16	16	Non-compacted		1.1	1.2	2.0	28.5	1.15	1.15	0.0057	70	87	1419	500
	25	16	Non-compacted		1.3	1.2	2.0	34.0	0.727	1.15	0.0054	88	128	1896	500
	35	16	Non-compacted		1.3	1.5	2.2	39.0	0.524	1.15	0.0047	110	154	2510	500
	50	25	Non-compacted		1.5	1.5	2.2	43.5	0.387	0.727	0.0046	133	181	3243	500
	70	35	Non-compacted		1.5	1.5	2.4	49.0	0.268	0.524	0.0039	171	223	4504	500
	95	50	Non-compacted		1.7	1.8	2.6	56.5	0.193	0.387	0.0038	207	267	6121	500
	120	70	Non-compacted		1.7	1.8	2.8	61.5	0.153	0.268	0.0034	240	304	7605	500
	150	95	Non-compacted		1.9	2.0	3.0	68.0	0.124	0.193	0.0034	278	342	9482	300
	185	95	Non-compacted		2.1	2.0	3.2	75.0	0.0991	0.193	0.0034	317	386	11365	300
	240	120	Non-compacted		2.3	2.2	3.4	84.5	0.0754	0.153	0.0033	374	448	14578	300
	300	150	Non-compacted		2.5	2.2	3.8	93.5	0.0601	0.124	0.0032	432	507	18038	200

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY-G

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATH WITH GROUND



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and staranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

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

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 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 5

APPLICATION

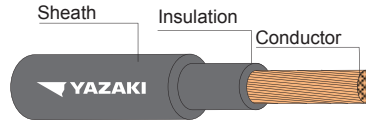
For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Nominal cross section area (No.x mm2)	Conductor Type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	1	1	21.7000	0.3771	0.1185	21.7000
	1	1	21.7000	0.3651	0.1147	21.7000
	1.5	1.5	14.5000	0.3505	0.1101	14.5000
	1.5	1.5	14.5000	0.3402	0.1069	14.5000
	2.5	2.5	8.8700	0.3238	0.1017	8.8710
	2.5	2.5	8.8700	0.3160	0.0993	8.8710
	4	4	5.5200	0.3135	0.0985	5.5210
	4	4	5.5200	0.3022	0.0950	5.5210
	6	6	3.6900	0.2869	0.0901	3.6910
	10	10	2.1900	0.2801	0.0880	2.1920
4+G	16	16	1.3800	0.2791	0.0877	1.3828
	25	16	0.8700	0.2631	0.0827	0.8739
	35	16	0.6273	0.2593	0.0814	0.6326
	50	25	0.4635	0.2604	0.0818	0.4707
	70	35	0.3213	0.2506	0.0787	0.3308
	95	50	0.2319	0.2480	0.0779	0.2446
	120	70	0.1843	0.2409	0.0757	0.1992
	150	95	0.1499	0.2402	0.0755	0.1678
	185	95	0.1205	0.2401	0.0754	0.1422
	240	120	0.0928	0.2361	0.0742	0.1188
	300	150	0.0751	0.2343	0.0736	0.1052

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/D)

Insulation color : Black

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
: 750Volts 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.

B

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	Insulation Inner sheath thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter (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	6.2	19.5	0.0127	14	42	100/C
	1.5	Flexible	0.8	1.2	6.6	13.3	0.0111	16	49	100/C
	2.5	Flexible	0.8	1.2	7.4	7.98	0.0092	25	61	100/C
	4	Flexible	0.9	1.4	8.6	4.95	0.0084	30	92	100/C
1	6	Flexible	0.9	1.4	9.4	3.30	0.0071	39	122	100/C
	10	Flexible	1.1	1.8	12.0	1.91	0.0068	51	211	100/C
	16	Flexible	1.1	1.8	13.5	1.21	0.0050	73	276	100/C
	25	Flexible	1.3	2.2	16.0	0.780	0.0048	97	418	100/C
	35	Flexible	1.3	2.2	17.5	0.554	0.0041	140	544	500/D

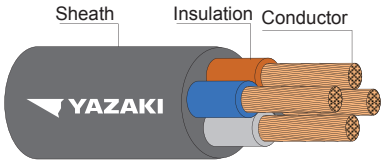
C = Packing in Coil
D = Packing in drum

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)
	1	23.3000	0.6620	0.2079	23.3000
	1.5	15.9000	0.6310	0.1983	15.9000
	2.5	9.5500	0.5930	0.1864	9.5520
	4	5.9227	0.5946	0.1868	5.9256
1	6	3.9485	0.5605	0.1761	3.9524
	10	2.2854	0.5529	0.1737	2.2919
	16	1.4478	0.5306	0.1667	1.4574
	25	0.9334	0.5275	0.1657	0.9480
	35	0.6630	0.5086	0.1598	0.6820

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	127	100/C
	2.5	Flexible	0.8	1.4	12.5	7.98	0.0092	25	159	100/C
	4	Flexible	0.9	1.6	14.5	4.95	0.0084	30	238	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	524	500/D
	16	Flexible	1.1	2.2	23.0	1.21	0.0050	73	728	500/D
	25	Flexible	1.3	2.4	27.5	0.780	0.0048	97	1060	500/D
	35	Flexible	1.3	2.6	31.0	0.554	0.0041	140	1414	500/D
	1	Flexible	0.8	1.4	10.5	19.5	0.0127	12	124	100/C
	1.5	Flexible	0.8	1.4	11.5	13.3	0.0111	15	148	100/C
	2.5	Flexible	0.8	1.4	13.0	7.98	0.0092	20	188	100/C
	4	Flexible	0.9	1.6	15.5	4.95	0.0084	26	284	100/C
3	6	Flexible	0.9	1.8	17.5	3.30	0.0071	34	403	100/C
	10	Flexible	1.1	2.0	21.5	1.91	0.0068	47	657	500/D
	16	Flexible	1.1	2.4	25.0	1.21	0.0050	63	917	500/D
	25	Flexible	1.3	2.6	30.0	0.780	0.0048	83	1342	500/D
	35	Flexible	1.3	2.8	33.5	0.554	0.0041	102	1795	500/D
	1	Flexible	0.8	1.6	10.5	19.5	0.0127	12	159	100/C
	1.5	Flexible	0.8	1.6	11.5	13.3	0.0111	15	188	100/C
	2.5	Flexible	0.8	1.6	13.0	7.98	0.0092	20	241	100/C
	4	Flexible	0.9	1.8	15.5	4.95	0.0084	26	358	100/C
4	6	Flexible	0.9	2.0	17.5	3.30	0.0071	34	513	500/D
	10	Flexible	1.1	2.2	21.5	1.91	0.0068	47	838	500/D
	16	Flexible	1.1	2.6	25.0	1.21	0.0050	63	1170	500/D
	25	Flexible	1.3	2.8	30.0	0.780	0.0048	83	1708	500/D
	35	Flexible	1.3	3.1	33.5	0.554	0.0041	102	2318	500/D

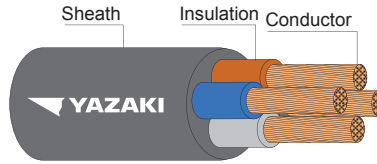
C = Packing in Coil
D = Packing in drum

B

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/D)

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

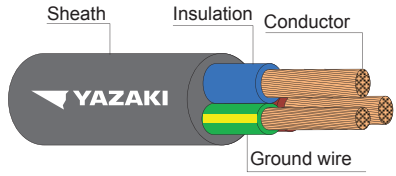
For moble-electrical equipment used in mines, factories, farm or household appliances. This calble is suitable for use in places where cable come in contact with oils.

Number of cores	Nominal cross sectional area (mm²)	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

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

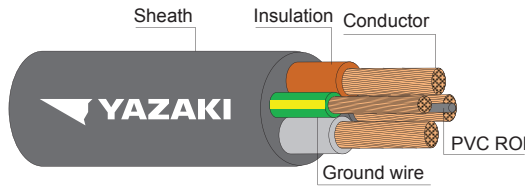
Number of cores	Nominal cross sectional area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase (mm^2)	Ground (mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
2+G	1	1	23.3000	0.3560	0.1118	23.3000
	1.5	1.5	15.9000	0.3330	0.1048	15.9000
	2.5	2.5	9.5500	0.3070	0.0965	9.5520
	4	4	5.9227	0.3084	0.0969	5.9235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

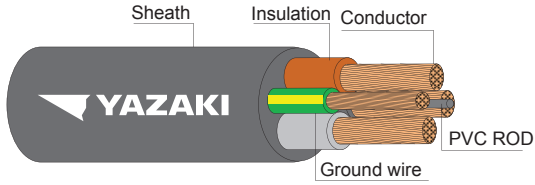
C = Packing in Coil
D = Packing in drum

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

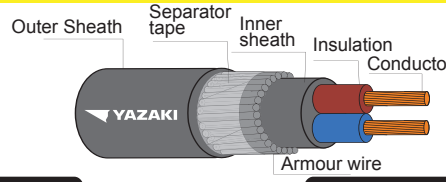
C = Packing in Coil
D = Packing in drum

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

NYY-SWA

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown

Inner sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Outer 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 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

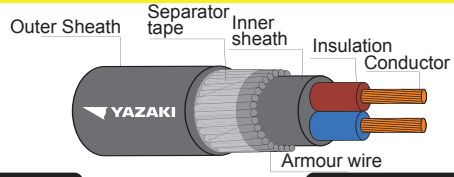
B

Number of cores	Nominal cross sectional area (mm^2)	Conductor Type	Insulation Inner sheath thickness nominal (mm)	Inner sheath thickness approx. (mm)	Diameter of steel wire amor nominal	Outer 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 ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length per drum (m)
	1	Solid	0.8	0.8	0.8	1.8	13.5	18.1	0.0141	22	300	500
	1	Non-compacted	0.8	0.8	0.8	1.8	14.0	18.1	0.0135	22	310	500
	1.5	Solid	0.8	0.8	0.8	1.8	14.0	12.1	0.0123	27	320	500
	1.5	Non-compacted	0.8	0.8	0.8	1.8	14.5	12.1	0.0116	27	340	500
	2.5	Solid	0.8	0.8	0.8	1.8	15.0	7.4	0.0102	36	370	500
	2.5	Non-compacted	0.8	0.8	0.8	1.8	15.5	7.4	0.0093	36	400	500
	4	Solid	0.9	0.8	0.8	1.8	16.5	4.6	0.0094	47	460	500
	4	Non-compacted	0.9	0.8	1.3	1.8	18.0	4.61	0.0085	47	600	500
	6	Non-compacted	0.9	0.8	1.3	1.8	19.0	3.08	0.0073	61	700	500
	10	Non-compacted	1.1	0.8	1.3	1.8	22.0	1.83	0.0069	82	950	500
2	16	Non-compacted	1.1	0.8	1.6	1.8	24.0	1.15	0.0057	107	1300	500
	25	Non-compacted	1.3	1.2	2.0	1.9	30.0	0.727	0.0054	138	2000	500
	35	Non-compacted	1.3	1.2	2.0	2.0	33.0	0.524	0.0047	168	2400	500
	50	Non-compacted	1.5	1.2	2.0	2.1	36.0	0.387	0.0046	199	3000	500
	70	Non-compacted	1.5	1.5	2.0	2.2	41.0	0.268	0.0039	243	3800	500
	95	Non-compacted	1.7	1.5	2.5	2.4	47.0	0.193	0.0038	294	5000	500
	120	Non-compacted	1.7	1.5	2.5	2.6	51.0	0.153	0.0034	336	6000	500
	150	Non-compacted	1.9	1.8	2.5	2.7	56.0	0.124	0.0034	375	7000	500
	185	Non-compacted	2.1	1.8	2.5	2.9	61.0	0.0991	0.0034	424	8500	300
	240	Non-compacted	2.3	2.0	2.5	3.1	68.0	0.0754	0.0033	489	10500	300
	300	Non-compacted	2.5	2.0	3.2	3.4	76.0	0.0601	0.0032	553	13500	200

Remark: Thermal relativity of soll 1.2 Km/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY-SWA

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown

Inner sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Outer 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 4

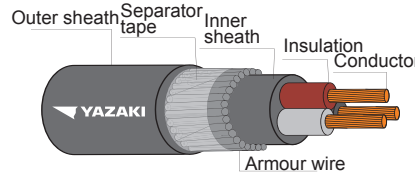
APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm²)	Conductor Type	A.C. Realstance R (Ω/km)	Inductance L (Ω/km)	Reactance XL (Ω/km)	Impedence Z (Ω/km)
2	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0085	5.5210
	4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	10	Non-compacted	2.1900	0.2801	0.0880	2.1920
	16	Non-compacted	1.3800	0.2631	0.0827	1.3820
	25	Non-compacted	0.8700	0.2607	0.0819	0.8738
	35	Non-compacted	0.6272	0.2593	0.0814	0.6325
	50	Non-compacted	0.4634	0.2604	0.0818	0.4706
	70	Non-compacted	0.3212	0.2506	0.0787	0.3307
	95	Non-compacted	0.2317	0.2480	0.0779	0.2444
	120	Non-compacted	0.1840	0.2409	0.0757	0.1990
	150	Non-compacted	0.1495	0.2402	0.0755	0.1675
	185	Non-compacted	0.1201	0.2401	0.0754	0.1418
	240	Non-compacted	0.0922	0.2361	0.0742	0.1183
	300	Non-compacted	0.0744	0.2343	0.0736	0.1047

NYY-SWA

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Outer 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 4

B

APPLICATION

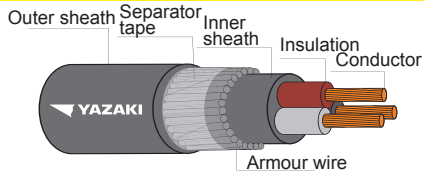
For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area	Conductor Type	Insulation Inner sheath thickness nominal	Inner sheath thickness approx.	Diameter of steel wire amor nominal	Outer Sheath thickness nominal	Overall diameter maximum	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating In ground at 30°C maximum	Cable weight approx.	Standard Length per drum
	($mm^{2)}$		(mm)	(mm)		(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
	1	Solid	0.8	0.8	0.8	1.8	14.0	18.1	0.0141	18	330	500
	1	Non-compacted	0.8	0.8	0.8	1.8	14.5	18.1	0.0135	18	340	500
	1.5	Solid	0.8	0.8	0.8	1.8	14.5	12.1	0.0123	23	350	500
	1.5	Non-compacted	0.8	0.8	0.8	1.8	15.0	12.1	0.0116	23	380	500
	2.5	Solid	0.8	0.8	0.8	1.8	15.5	7.41	0.0102	30	420	500
	2.5	Non-compacted	0.8	0.8	0.8	1.8	16.5	7.41	0.0093	30	450	500
	4	Solid	0.9	0.8	1.3	1.8	18.0	4.61	0.0094	40	650	500
	4	Non-compacted	0.9	0.8	1.3	1.8	18.5	4.61	0.0085	40	700	500
	6	Non-compacted	0.9	0.8	1.3	1.8	20.0	3.08	0.0073	51	800	500
	10	Non-compacted	1.1	0.8	1.6	1.8	23.0	1.83	0.0069	69	1200	500
3	16	Non-compacted	1.1	1.2	1.6	1.8	26.0	1.15	0.0057	88	1600	500
	25	Non-compacted	1.3	1.2	2.0	1.9	31.0	0.727	0.0054	115	2300	500
	35	Non-compacted	1.3	1.2	2.0	2.0	34.0	0.524	0.0047	140	2800	500
	50	Non-compacted	1.5	1.5	2.0	2.2	39.0	0.387	0.0046	168	3600	500
	70	Non-compacted	1.5	1.5	2.0	2.3	43.0	0.268	0.0039	209	4500	500
	95	Non-compacted	1.7	1.5	2.5	2.5	50.0	0.193	0.0038	248	6500	500
	120	Non-compacted	1.7	1.8	2.5	2.7	55.0	0.153	0.0034	283	7500	300
	150	Non-compacted	1.9	1.8	2.5	2.8	59.0	0.124	0.0034	310	9000	300
	185	Non-compacted	2.1	2.0	2.5	3.0	65.0	0.0991	0.0034	357	15000	300
	240	Non-compacted	2.3	2.0	2.5	3.3	73.0	0.0754	0.0033	427	13000	200
	300	Non-compacted	2.5	2.2	3.2	3.5	81.0	0.0601	0.0032	453	17000	200

Remark: Thermal relativity of soll 1.2 Km/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY-SWA

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Outer 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 4

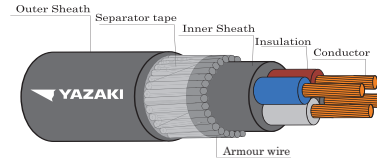
APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm^2)	Conductor Type	A.C. Realstance R (Ω/km)	Inductance L (Ω/km)	Reactance XL (Ω/km)	Impedence Z (Ω/km)
3	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	1.5	Solid	14.5000	0.3605	0.1101	14.5000
	1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0085	5.5210
	4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	10	Non-compacted	2.1900	0.2801	0.0880	2.1920
	16	Non-compacted	1.3800	0.2831	0.0827	1.3820
	25	Non-compacted	0.8700	0.2607	0.0819	0.8738
	35	Non-compacted	0.6273	0.2593	0.0814	0.6326
	50	Non-compacted	0.4635	0.2604	0.0818	0.4707
	70	Non-compacted	0.3213	0.2506	0.0787	0.3308
	95	Non-compacted	0.2319	0.2480	0.0779	0.2446
	120	Non-compacted	0.1843	0.2409	0.0757	0.1992
	150	Non-compacted	0.1499	0.2402	0.0755	0.1678
	185	Non-compacted	0.1205	0.2401	0.0754	0.1422
	240	Non-compacted	0.0928	0.2361	0.0742	0.1188
	300	Non-compacted	0.0751	0.2343	0.0736	0.1052

NYY-SWA

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Galvanized Steel Wires

Outer 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 4

B

APPLICATION

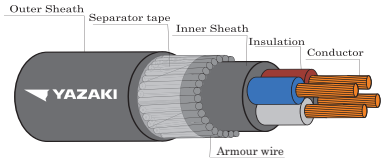
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Diameter of steel norminal	Outer Sheath thickness nominal (mm)	Overall diameter (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length per drum (m)
	1	Solid	0.8	0.8	0.8	1.8	15.0	18.1	0.0141	18	360	500
	1	Non-compacted	0.8	0.8	0.8	1.8	15.0	18.1	0.0135	18	380	500
	1.5	Solid	0.8	0.8	0.8	1.8	15.5	12.1	0.0123	23	400	500
	1.5	Non-compacted	0.8	0.8	0.8	1.8	16.0	12.1	0.0116	23	420	500
	2.5	Solid	0.8	0.8	0.8	1.8	16.5	7.41	0.0102	30	480	500
	2.5	Non-compacted	0.8	0.8	1.3	1.8	18.0	7.41	0.0093	30	650	500
	4	Solid	0.9	0.8	1.3	1.8	19.0	4.61	0.0094	40	750	500
	4	Non-compacted	0.9	0.8	1.3	1.8	20.0	4.61	0.0085	40	800	500
	6	Non-compacted	0.9	0.8	1.3	1.8	21.0	3.08	0.0073	51	950	500
	10	Non-compacted	1.1	0.8	1.6	1.8	25.0	1.83	0.0069	69	1400	500
4	16	Non-compacted	1.1	1.2	1.6	1.8	28.0	1.15	0.0057	88	1800	500
	25	Non-compacted	1.3	1.2	2.0	2.0	34.0	0.727	0.0054	115	2800	500
	35	Non-compacted	1.3	1.5	2.0	2.1	38.0	0.524	0.0047	140	3500	500
	50	Non-compacted	1.5	1.5	2.0	2.3	43.0	0.387	0.0046	168	4300	500
	70	Non-compacted	1.5	1.5	2.5	2.5	49.0	0.268	0.0039	209	6000	500
	95	Non-compacted	1.7	1.8	2.5	2.7	55.0	0.193	0.0038	248	8000	300
	120	Non-compacted	1.7	1.8	2.5	2.9	60.0	0.153	0.0034	283	9000	300
	150	Non-compacted	1.9	2.0	2.5	3.0	65.0	0.124	0.0034	310	11000	300
	185	Non-compacted	2.1	2.0	2.5	3.2	72.0	0.0991	0.0034	357	13000	200
	240	Non-compacted	2.3	2.2	3.2	3.5	81.0	0.0754	0.0033	427	17500	100
	300	Non-compacted	2.5	2.2	3.2	3.8	89.0	0.0601	0.0032	453	21000	100

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY-SWA

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Blue, Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Galvanized Steel Wires

Outer 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 4

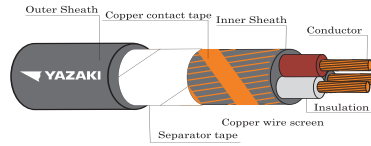
APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm^2)	Conductor type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0985	5.5210
	4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	10	Non-compacted	2.1900	0.2801	0.0880	2.1920
4	16	Non-compacted	1.3800	0.2631	0.0827	1.3820
	25	Non-compacted	0.8700	0.2607	0.0819	0.8738
	35	Non-compacted	0.6273	0.2593	0.0814	0.6326
	50	Non-compacted	0.4635	0.2604	0.0818	0.4707
	70	Non-compacted	0.3213	0.2506	0.0787	0.3308
	95	Non-compacted	0.2319	0.2480	0.0779	0.2446
	120	Non-compacted	0.1843	0.2409	0.0757	0.1992
	150	Non-compacted	0.1499	0.2402	0.0755	0.1678
	185	Non-compacted	0.1205	0.2401	0.0754	0.1422
	240	Non-compacted	0.0928	0.2361	0.0742	0.1188
	300	Non-compacted	0.0751	0.2343	0.0736	0.1052

NYCY

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH CONCENTRIC CONDUCTORS POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Concentric shield : Annealed copper wires with helix of copper tape fully covers

Outer 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 4

APPLICATION

or in raceway, wet or dry location, or direct burial in ground

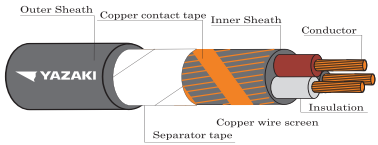
B

Number of cores	Nominal cross sectional area (mm^2)		Conductor type	Diameter of Concentric shield	Insulation thickness nominal	Inner Sheath thickness approx.	Outer Sheath thickness nominal	Overall diameter maximum	Conductor resistance at 20°C	Insulation resistance at 70°C	Continuous current rating in free air at 40°c	Continuous current rating in ground at 30°C	Cable weight approx	Standard length per drum
	Phase	Concentric Shield		(mm)	(mm)	(mm)	(mm)	(mm)	(01km)	(MD-km)	(A)	(A)	(kg/km)	(m)
3	1.5	1.5	Solid	1.5	0.8	0.8	1.8	14.5	12.1	0.0123	16	22	275	500
	1.5	1.5	Non-compacted	1.5	0.8	0.8	1.8	15.0	12.1	0.0116	16	22	275	500
	2.5	2.5	Solid	2.5	0.8	0.8	1.8	15.5	7.41	0.0102	22	30	323	500
	2.5	2.5	Non-compacted	2.5	0.8	0.8	1.8	16.5	7.41	0.0093	22	30	323	500
	4	4	Solid	4	0.9	0.8	1.8	17.5	4.61	0.0094	30	39	411	500
	4	4	Non-compacted	4	0.9	0.8	1.8	18.0	4.61	0.0085	30	39	411	500
	6	6	Non-compacted	6	0.9	0.8	1.8	19.5	3.08	0.0073	37	50	551	500
	10	10	Non-compacted	10	1.1	0.8	1.8	22.0	1.83	0.0069	52	68	797	500
	16	16	Non-compacted	16	1.1	0.8	2.0	26.0	1.15	0.0057	66	87	1163	500
	25	16	Non-compacted	16	1.3	1.2	2.0	30.0	0.727	0.0054	88	107	1538	500
	25	25	Non-compacted	25	1.3	1.2	2.0	30.0	0.727	0.0054	88	107	1538	500
	35	16	Non-compacted	16	1.3	1.2	2.0	33.0	0.524	0.0047	107	122	1962	500
	35	25	Non-compacted	25	1.3	1.2	2.0	33.0	0.524	0.0047	107	122	1962	500
	50	25	Non-compacted	25	1.5	1.5	2.2	38.0	0.387	0.0046	130	142	2613	500
	50	35	Non-compacted	35	1.5	1.5	2.2	39.0	0.387	0.0046	130	142	2613	500
	70	35	Non-compacted	35	1.5	1.5	2.2	43.0	0.268	0.0039	162	178	3556	500
	70	50	Non-compacted	50	1.5	1.5	2.2	43.0	0.268	0.0039	162	178	3556	500
	95	50	Non-compacted	50	1.7	1.5	2.4	48.0	0.193	0.0038	200	219	4788	500
	95	70	Non-compacted	70	1.7	1.5	2.4	49.0	0.193	0.0038	200	219	4788	500
	120	70	Non-compacted	70	1.7	1.8	2.6	53.0	0.153	0.0034	233	254	6015	500
	120	95	Non-compacted	95	1.7	1.8	2.6	54.0	0.153	0.0034	233	254	6015	500
	150	70	Non-compacted	70	1.9	1.8	2.8	58.0	0.124	0.0034	266	290	6015	500
	150	95	Non-compacted	95	1.9	1.8	2.8	58.0	0.124	0.0034	266	290	7398	500
	150	120	Non-compacted	120	1.9	1.8	2.8	59.0	0.124	0.0034	266	290	7398	500
	185	95	Non-compacted	95	2.1	2.0	3.0	64.0	0.0991	0.0034	306	332	8974	300
	185	120	Non-compacted	120	2.1	2.0	3.0	65.0	0.0991	0.0034	306	332	8974	300
	240	120	Non-compacted	120	2.3	2.0	3.2	72.0	0.0754	0.0033	364	389	11448	300
	300	150	Non-compacted	150	2.5	2.2	3.4	79.0	0.0601	0.0032	417	445	14200	300

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYCY

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH CONCENTRIC CONDUCTORS POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

Concentric shield : Annealed copper wires with helix of copper tape fully covers

Outer 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 4

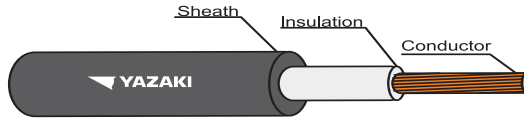
APPLICATION

For in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm^2)	Conductor type	A.C. Resistance R (0/km)	Inductance L (mH/km)	Reactance XL (0/km)	Impedance Z (0/km)
3	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Stranded	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Stranded	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0985	5.5210
	4	Stranded	5.5200	0.3022	0.0950	5.5210
	6	Stranded	3.6900	0.2869	0.0901	3.6910
	10	Stranded	2.1900	0.2801	0.0880	2.1920
	16	Stranded	1.3800	0.2631	0.0827	1.3820
	25	Stranded	0.8700	0.2607	0.0819	0.8738
	35	Stranded	0.6273	0.2593	0.0814	0.6326
	50	Stranded	0.4635	0.2604	0.0818	0.4707
	70	Stranded	0.3213	0.2506	0.0787	0.3308
	95	Stranded	0.2319	0.2480	0.0779	0.2446
	120	Stranded	0.1843	0.2409	0.0757	0.1992
	150	Stranded	0.1499	0.2402	0.0755	0.1678
	185	Stranded	0.1205	0.2401	0.0754	0.1422
	240	Stranded	0.0928	0.2361	0.0742	0.1188
	300	Stranded	0.0751	0.2343	0.0736	0.1052

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Cable name	Number x Size of conductor (No.x mm²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductorl resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx (kg/km)	Standard length per drum (m)
								Spaced	Touching	Trefoil			
FD-0.6/1KV-CV	1x1.5	Non-compacted	0.7	1.4	6.5	12.1	2,500	31	24	23	33	51	500
YK FD-0.6/1KV-CV	1x2.5	Non-compacted	0.7	1.4	7.0	7.41	2,100	42	32	31	43	65	1000
	1x4	Non-compacted	0.7	1.4	7.5	4.61	1,700	54	42	41	55	85	1000
	1x6	Non-compacted	0.7	1.4	8.5	3.08	1,450	68	53	52	70	110	1000
	1x10	Non-compacted	0.7	1.4	9.0	1.83	1,250	90	73	71	92	150	1000
	1x16	Compacted	0.7	1.4	10.0	1.15	1,000	124	95	93	119	210	1000
	1x25	Compacted	0.9	1.4	11.5	0.727	1,050	166	128	123	152	310	1000
	1x35	Compacted	0.9	1.4	12.5	0.524	900	206	160	154	184	400	1000
	1x50	Compacted	1.0	1.7	14.5	0.387	850	250	197	188	217	550	1000
	1x70	Compacted	1.1	1.4	16.0	0.268	800	321	254	244	266	720	1000
	1x95	Compacted	1.1	1.5	18.0	0.193	650	391	311	298	318	1250	1000
	1x120	Compacted	1.2	1.8	20.5	0.153	650	455	364	349	362	1200	1000
	1x150	Compacted	1.4	1.6	21.5	0.124	700	525	422	404	406	1490	1000
	1x185	Compacted	1.6	1.6	23.5	0.0991	700	602	485	464	459	1850	1000
	1x240	Compacted	1.7	1.7	26.5	0.0754	650	711	577	552	533	2390	1000
FD-0.6/1KV-CV	1x300	Compacted	1.8	2.5	30.5	0.0601	600	821	670	640	601	3149	500
	1x400	Compacted	2.0	2.7	34.0	0.0470	600	987	790	749	684	4026	500
	1x500	Compacted	2.2	3.0	38.5	0.0366	600	1140	908	861	777	5165	500
	1x630	Compacted	2.4	3.3	43.0	0.0283	550	1298	1064	1014	1229	6616	500
	1x800	Compacted	2.6	3.6	48.0	0.0221	550	1494	1220	1156	1380	8290	500
	1x1000	Compacted	2.8	4.0	55.0	0.0176	500	1712	1391	1307	1532	10882	500

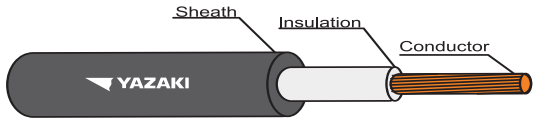
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE

IEC 60502-1

TIS 2143-2546



Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

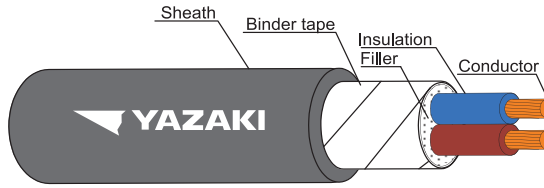
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Cable name	Number x Size of conductor (No.x mm²)	Conductor type	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Inductance Z Impedance		
			Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
FD-0.6/1KV-CV	1x1.5	Non-compacted	15.4287	15.4287	15.4287	0.6630	0.5244	0.4782	0.2083	0.1647	0.1502	15.4301	15.4296	15.4294
YK FD-0.6/1KV-CV	1x2.5	Non-compacted	9.4485	9.4485	9.4485	0.6314	0.4928	0.4466	0.1984	0.1548	0.1403	9.4506	9.4498	9.4495
	1x4	Non-compacted	5.8782	5.8782	5.8782	0.5988	0.4602	0.4140	0.1881	0.1446	0.1301	5.8812	5.8800	5.8796
	1x6	Non-compacted	3.9273	3.9273	3.9273	0.5754	0.4368	0.3906	0.1808	0.1372	0.1227	3.9315	3.9297	3.9292
	1x10	Non-compacted	2.3335	2.3335	2.3335	0.5459	0.4072	0.3610	0.1715	0.1279	0.1134	2.3398	2.3370	2.3363
	1x16	Compacted	1.4664	1.4664	1.4665	0.5284	0.3898	0.3436	0.1660	0.1225	0.1079	1.4758	1.4715	1.4705
	1x25	Compacted	0.9271	0.9271	0.9272	0.5159	0.3772	0.3310	0.1621	0.1185	0.1040	0.9412	0.9346	0.9330
	1x35	Compacted	0.6683	0.6683	0.6684	0.5017	0.3630	0.3168	0.1576	0.1140	0.0995	0.6866	0.6780	0.6758
	1x50	Compacted	0.4937	0.4937	0.4938	0.4913	0.3527	0.3065	0.1543	0.1108	0.0963	0.5173	0.5060	0.5031
	1x70	Compacted	0.3420	0.3421	0.3422	0.4716	0.3330	0.2867	0.1482	0.1046	0.0901	0.3727	0.3577	0.3539
	1x95	Compacted	0.2465	0.2467	0.2468	0.4651	0.3265	0.2803	0.1461	0.1026	0.0881	0.2866	0.2672	0.2620
	1x120	Compacted	0.1956	0.1959	0.1961	0.4587	0.3201	0.2738	0.1441	0.1006	0.0860	0.2430	0.2202	0.2141
	1x150	Compacted	0.1587	0.1591	0.1593	0.4555	0.3169	0.2706	0.1431	0.0996	0.0850	0.2137	0.1877	0.1806
	1x185	Compacted	0.1271	0.1275	0.1279	0.4536	0.3149	0.2687	0.1425	0.0989	0.0844	0.1909	0.1614	0.1532
	1x240	Compacted	0.0972	0.0977	0.0982	0.4484	0.3098	0.2635	0.1409	0.0973	0.0828	0.1711	0.1379	0.1284
FD-0.6/1KV-CV	1x300	Compacted	0.0779	0.0787	0.0792	0.4413	0.3027	0.2565	0.1386	0.0951	0.0806	0.1590	0.1234	0.1130
	1x400	Compacted	0.0616	0.0625	0.0632	0.4393	0.3007	0.2545	0.1380	0.0945	0.0800	0.1511	0.1133	0.1019
	1x500	Compacted	0.0488	0.0499	0.0509	0.4365	0.2979	0.2517	0.1371	0.0936	0.0791	0.1456	0.1061	0.0940
	1x630	Compacted	0.0387	0.0402	0.0414	0.4341	0.2954	0.2492	0.1364	0.0928	0.0783	0.1418	0.1011	0.0886
	1x800	Compacted	0.0314	0.0332	0.0346	0.4309	0.2923	0.2461	0.1354	0.0918	0.0773	0.1390	0.0976	0.0847
	1x1000	Compacted	0.0263	0.0284	0.0301	0.4265	0.2879	0.2416	0.1340	0.0904	0.0759	0.1365	0.0948	0.0817

B

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

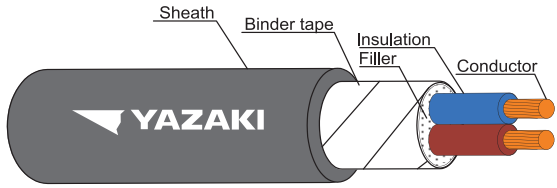
B

Cable name	Number x Size of conductor (No.x mm²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductorl resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx (kg/km)	Standard length per drum (m)
FD-0.6/1KV-CV	2x1.5	Non-compacted	0.7	1.8	11.5	12.1	2,500	27	33	128	500
YK FD-0.6/1KV-CV	2x2.5	Non-compacted	0.7	1.8	13.0	7.41	2,100	36	44	180	1000
	2x4	Non-compacted	0.7	1.8	14.0	4.61	1,700	47	58	220	1000
	2x6	Non-compacted	0.7	1.8	14.5	3.08	1,450	60	73	260	1000
	2x10	Non-compacted	0.7	1.8	16.5	1.83	1,250	81	97	370	1000
	2x16	Compacted	0.7	1.8	18.5	1.15	1,000	107	125	510	1000
	2x25	Compacted	0.9	1.8	22.0	0.727	1,050	143	165	740	1000
	2x35	Compacted	0.9	1.8	24.0	0.524	900	175	195	950	1000
	2x50	Compacted	1.0	2.0	27.0	0.387	850	214	235	1260	1000
	2x70	Compacted	1.1	2.0	31.0	0.268	800	270	290	1730	1000
FD-0.6/1KV-CV	2x95	Compacted	1.1	4.0	38.0	0.193	650	329	350	2618	500
	2x120	Compacted	1.2	4.0	41.5	0.153	650	381	400	3226	500
	2x150	Compacted	1.4	4.0	45.5	0.124	700	436	450	3879	500
	2x185	Compacted	1.6	4.0	49.5	0.0991	700	503	505	4745	500
	2x240	Compacted	1.7	4.0	55.0	0.0754	650	593	585	6055	500
	2x300	Compacted	1.8	4.0	60.0	0.0601	600	676	665	7407	500
	2x400	Compacted	2.0	4.0	66.5	0.0470	600	777	750	9262	500

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90ºC
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

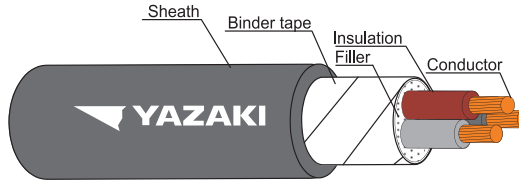
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

Cable name	Number x Size of conductor (No.x mm²)	Conductor type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
FD-0.6/1KV-CV	2x1.5	Non-compacted	15.4287	0.3427	0.1077	15.4291
YK FD-0.6/1KV-CV	2x2.5	Non-compacted	9.4485	0.3210	0.1009	9.4490
	2x4	Non-compacted	5.8782	0.3010	0.0946	5.8790
	2x6	Non-compacted	3.9273	0.2871	0.0902	3.9284
	2x10	Non-compacted	2.3335	0.2710	0.0851	2.3351
	2x16	Compacted	1.4665	0.2624	0.0824	1.4688
	2x25	Compacted	0.9272	0.2645	0.0831	0.9309
	2x35	Compacted	0.6684	0.2569	0.0807	0.6733
	2x50	Compacted	0.4938	0.2536	0.0797	0.5002
	2x70	Compacted	0.3422	0.2421	0.0761	0.3506
FD-0.6/1KV-CV	2x95	Compacted	0.2468	0.2331	0.0732	0.2575
	2x120	Compacted	0.1960	0.2315	0.0727	0.2091
	2x150	Compacted	0.1593	0.2302	0.0723	0.1749
	2x185	Compacted	0.1278	0.2338	0.0734	0.1474
	2x240	Compacted	0.0981	0.2295	0.0721	0.1217
	2x300	Compacted	0.0791	0.2260	0.0710	0.1063
	2x400	Compacted	0.0630	0.2259	0.0710	0.0949

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

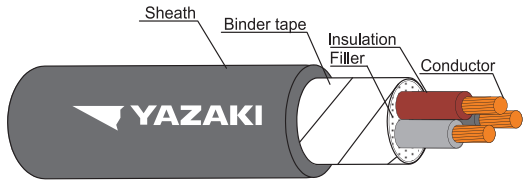
B

Cable name	Number x Size of conductor (No.x mm²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductorl resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx (kg/km)	Standard length per drum (m)
FD-0.6/1KV-CV	3x1.5	Non-compacted	0.7	1.8	12.0	12.1	2,500	22	28	150	500
	3x2.5	Non-compacted	0.7	1.8	13.0	7.41	2,100	29	43	200	1000
	3x4	Non-compacted	0.7	1.8	14.5	4.61	1,700	38	55	270	1000
	3x6	Non-compacted	0.7	1.8	16.0	3.08	1,450	49	70	340	1000
	3x10	Non-compacted	0.7	1.8	17.5	1.83	1,250	68	92	480	1000
YK FD-0.6/1KV-CV	3x16	Compacted	0.7	1.8	19.5	1.15	1,000	91	119	660	1000
	3x25	Compacted	0.9	1.8	23.0	0.727	1,050	116	152	970	1000
	3x35	Compacted	0.9	1.8	25.5	0.524	900	144	184	1270	1000
	3x50	Compacted	1.0	2.0	29.0	0.387	850	175	217	1690	1000
	3x70	Compacted	1.1	2.0	33.0	0.268	800	224	266	2340	1000
	3x95	Compacted	1.1	4.0	40.5	0.193	650	272	295	3490	500
	3x120	Compacted	1.2	4.0	44.0	0.153	650	320	335	4325	500
	3x150	Compacted	1.4	4.0	48.0	0.124	700	366	380	5247	500
FD-0.6/1KV-CV	3x185	Compacted	1.6	4.0	53.0	0.0991	700	422	425	6438	500
	3x240	Compacted	1.7	4.0	59.0	0.0754	650	498	495	8280	500
	3x300	Compacted	1.8	4.0	64.0	0.0601	600	567	560	10183	500
	3x400	Compacted	2.0	4.0	71.0	0.0470	600	652	630	12776	500

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

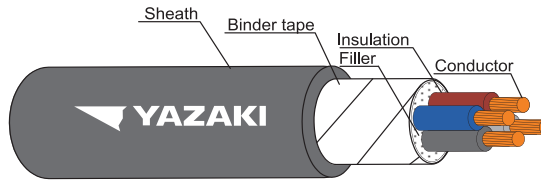
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

Cable name	Number x Size of conductor (No.x mm^2)	Conductor type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
FD-0.6/1KV-CV	3x1.5	Non-compacted	15.4287	0.3427	0.1077	15.4291
YK FD-0.6/1KV-CV	3x2.5	Non-compacted	9.4485	0.3210	0.1009	9.4490
	3x4	Non-compacted	5.8782	0.3010	0.0946	5.8790
	3x6	Non-compacted	3.9274	0.2871	0.0902	3.9284
	3x10	Non-compacted	2.3335	0.2710	0.0851	2.3351
	3x16	Compacted	1.4665	0.2624	0.0824	1.4688
	3x25	Compacted	0.9272	0.2645	0.0831	0.9309
	3x35	Compacted	0.6685	0.2569	0.0807	0.6733
	3x50	Compacted	0.4939	0.2536	0.0797	0.5003
	3x70	Compacted	0.3424	0.2421	0.0761	0.3507
FD-0.6/1KV-CV	3x95	Compacted	0.2471	0.2331	0.0732	0.2577
	3x120	Compacted	0.1964	0.2315	0.0727	0.2094
	3x150	Compacted	0.1597	0.2302	0.0723	0.1753
	3x185	Compacted	0.1282	0.2338	0.0734	0.1478
	3x240	Compacted	0.0987	0.2295	0.0721	0.1222
	3x300	Compacted	0.0798	0.2260	0.0710	0.1068
	3x400	Compacted	0.0639	0.2259	0.0710	0.0955

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

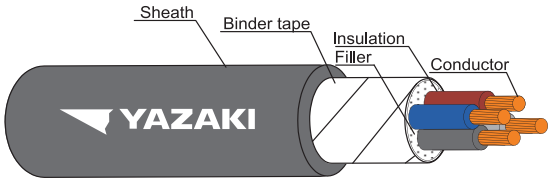
B

Cable name	Number x Size of conductor (No.x mm²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductorl resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx (kg/km)	Standard length per drum (m)
FD-0.6/1KV-CV	4x1.5	Non-compacted	0.7	1.8	12.5	12.1	2,500	22	28	176	500
YK FD-0.6/1KV-CV	4x2.5	Non-compacted	0.7	1.8	14.0	7.41	2,100	29	43	230	1000
	4x4	Non-compacted	0.7	1.8	16.0	4.61	1,700	38	55	330	1000
	4x6	Non-compacted	0.7	1.8	17.5	3.08	1,450	49	70	420	1000
	4x10	Non-compacted	0.7	1.8	19.0	1.83	1,250	68	92	590	1000
	4x16	Compacted	0.7	1.8	21.0	1.15	1,000	91	119	830	1000
	4x25	Compacted	0.9	1.8	25.0	0.727	1,050	116	152	1240	1000
	4x35	Compacted	0.9	1.8	27.5	0.524	900	144	184	1610	1000
	4x50	Compacted	1.0	2.0	31.5	0.387	850	175	217	2170	1000
	4x70	Compacted	1.1	2.0	36.0	0.268	800	224	266	3000	1000
FD-0.6/1KV-CV	4x95	Compacted	1.1	4.0	44.0	0.193	650	272	295	4449	500
	4x120	Compacted	1.2	4.0	48.5	0.153	650	320	335	5550	500
	4x150	Compacted	1.4	4.0	52.5	0.124	700	366	380	6749	500
	4x185	Compacted	1.6	4.0	58.0	0.0991	700	422	425	8305	500
	4x240	Compacted	1.7	4.0	64.5	0.0754	650	498	495	10707	500
	4x300	Compacted	1.8	4.0	70.5	0.0601	600	567	560	13211	500
	4x400	Compacted	2.0	4.0	78.0	0.0470	600	652	630	16623	500

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

FD-0.6/1KV-CV or YK FD-0.6/1KV-CV

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24; Category C, TIS 2143-2546

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

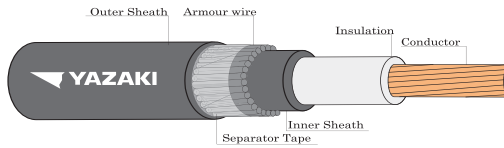
Cable name	Number x Size of conductor (No.x mm²)	Conductor type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
FD-0.6/1KV-CV	4x1.5	Non-compacted	15.4287	0.3427	0.1077	15.4291
	4x2.5	Non-compacted	9.4485	0.3210	0.1009	9.4490
	4x4	Non-compacted	5.8782	0.3010	0.0946	5.8790
	4x6	Non-compacted	3.9274	0.2871	0.0902	3.9284
	4x10	Non-compacted	2.3335	0.2710	0.0851	2.3351
YK FD-0.6/1KV-CV	4x16	Compacted	1.4665	0.2624	0.0824	1.4688
	4x25	Compacted	0.9272	0.2645	0.0831	0.9309
	4x35	Compacted	0.6685	0.2569	0.0807	0.6733
	4x50	Compacted	0.4939	0.2536	0.0797	0.5002
	4x70	Compacted	0.3424	0.2421	0.0761	0.3506
	4x95	Compacted	0.2471	0.2331	0.0732	0.2577
	4x120	Compacted	0.1964	0.2315	0.0727	0.2094
	4x150	Compacted	0.1597	0.2302	0.0723	0.1753
FD-0.6/1KV-CV	4x185	Compacted	0.1282	0.2338	0.0734	0.1478
	4x240	Compacted	0.0987	0.2295	0.0721	0.1222
	4x300	Compacted	0.0798	0.2260	0.0710	0.1068
	4x400	Compacted	0.0639	0.2259	0.0710	0.0955

FD-0.6/1KV-CV-AWA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH ALUMINIUM WIRE ARMORED FLAME RETARDANT POWER CABLE

IEC 60502-1

TIS 2143-2546



Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Aluminium wires

Outer sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

Number of core	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Inner Sheath thickness approx.	Dia. Of inner sheath approx.	Diameter of steel wire armor norminal	Outer Sheath thickness norminal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 20°C minimum	Continuous current rating in free air at 40°C maximum (A)			Continuous current rating in ground at 30°C maximum	Cable weight approx.	Standard Length
											Spaced	Touching	Trefoil			
	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)				(A)	(kg/km)	(m)
	1.5	Non-compacted	0.7	1.2	6.0	1.25	1.4	12.0	12.1	2.500	36	30	29	32	172	500/D
	2.5	Non-compacted	0.7	1.2	6.5	1.25	1.4	12.5	7.41	2,100	48	39	38	41	190	500/D
	4	Non-compacted	0.7	1.2	7.0	1.25	1.4	13.0	4.61	1,700	62	51	50	53	215	500/D
	6	Non-compacted	0.7	1.2	7.5	1.25	1.4	13.5	3.08	1,450	78	64	63	65	246	500/D
	10	Compacted	0.7	1.2	8.0	1.25	1.4	14.0	1.83	1,250	104	85	83	86	295	500/D
	16	Compacted	0.7	1.2	9.0	1.25	1.4	15.0	1.15	1.000	136	112	109	110	369	500/D
	25	Compacted	0.9	1.2	11.0	1.25	1.5	17.0	0.727	1,050	179	147	143	141	503	500/D
	35	Compacted	0.9	1.2	12.0	1.25	1.5	18.0	0.524	900	217	179	174	169	615	500/D
	50	Compacted	1.0	1.2	13.5	1.25	1.5	19.5	0.387	850	261	216	210	199	762	500/D
	70	Compacted	1.1	1.2	15.0	1.25	1.6	21.5	0.268	800	327	270	262	243	1006	500/D
1	95	Compacted	1.1	1.2	17.0	1.60	1.7	24.0	0.193	650	404	334	325	292	1345	500/D
	120	Compacted	1.2	1.2	18.5	1.60	1.7	26.0	0.153	650	467	387	376	331	1628	500/D
	150	Compacted	1.4	1.2	20.5	1.60	1.8	28.0	0.124	700	532	422	429	371	1953	500/D
	185	Compacted	1.6	1.2	22.5	1.60	1.9	30.5	0.0991	700	617	515	499	421	2345	500/D
	240	Compacted	1.7	1.2	25.5	1.60	2.0	33.5	0.0754	650	733	613	594	487	2973	500/D
	300	Compacted	1.8	1.2	28.0	2.00	2.1	37.0	0.0601	600	844	707	684	549	3724	500/D
	400	Compacted	2.0	1.2	31.0	2.00	2.2	40.0	0.0470	600	979	822	794	622	4645	500/D
	500	Compacted	2.2	1.2	34.5	2.00	2.3	44.0	0.0366	600	1139	957	921	703	5802	500/D
	630	Compacted	2.4	1.3	38.5	2.50	2.5	49.5	0.0283	550	1333	1120	1075	795	7490	500/D
	800	Compacted	2.6	1.4	43.0	2.50	2.7	54.5	0.0221	550	1527	1280	1222	881	9252	300/D
	1000	Compacted	2.8	1.5	49.5	2.50	2.9	61.0	0.0176	500	1739	1453	1377	965	11952	300/D

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

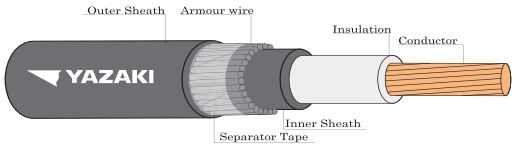
D : Packing in drum

FD-0.6/1KV-CV-AWA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH ALUMINIUM WIRE ARMORED FLAME RETARDANT POWER CABLE

IEC 60502-1

TIS 2143-2546



Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Aluminium wires

Outer sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

APPLICATION

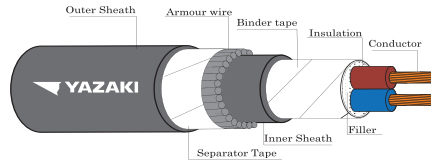
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

Number of core	Nominal cross sectional area (mm^2)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.8017	0.6630	0.6168	0.2519	0.2083	0.1938	15.4308	15.4301	15.4299
	2.5	9.4485	9.4485	9.4485	0.7626	0.6239	0.5777	0.2396	0.1960	0.1815	9.4515	9.4505	9.4502
	4	5.8782	5.8782	5.8782	0.7225	0.5838	0.5376	0.2270	0.1834	0.1689	5.8826	5.8811	5.8807
	6	3.9273	3.9273	3.9273	0.6908	0.5521	0.5059	0.2170	0.1735	0.1589	3.9333	3.9312	3.9305
	10	2.3335	2.3335	2.3335	0.6636	0.5250	0.4787	0.2085	0.1649	0.1504	2.3428	2.3393	2.3383
	16	1.4664	1.4664	1.4664	0.6289	0.4903	0.4440	0.1976	0.1540	0.1395	1.4797	1.4745	1.4731
	25	0.9271	0.9271	0.9271	0.6040	0.4654	0.4191	0.1897	0.1462	0.1317	0.9463	0.9386	0.9364
	35	0.6683	0.6683	0.6683	0.5835	0.4449	0.3986	0.1833	0.1398	0.1252	0.6930	0.6828	0.6800
	50	0.4936	0.4937	0.4937	0.5562	0.4176	0.3713	0.1747	0.1312	0.1167	0.5237	0.5108	0.5073
	70	0.3420	0.3421	0.3421	0.5379	03992	0.3530	0.1690	0.1254	0.1109	0.3815	0.3643	0.3596
	95	0.2465	0.2466	0.2466	0.5260	0.3873	0.3411	0.1652	0.1217	0.1072	0.2967	0.2750	0.2689
	120	0.1956	0.1957	0.1958	0.5126	0.3740	0.3278	0.1610	0.1175	0.1030	0.2533	0.2283	0.2212
	150	0.1587	0.1589	0.1590	0.5057	0.3671	0.3209	0.1589	0.1153	0.1008	0.2246	0.1963	0.1883
	185	0.1271	0.1273	0.1275	0.5054	0.3668	0.3206	0.1588	0.1152	0.1007	0.2034	0.1717	0.1625
	240	0.0971	0.0974	0.0977	0.4937	0.3551	0.3089	0.1551	0.1116	0.0970	0.1830	0.1481	0.1377
	300	0.0778	0.0783	0.0787	0.3487	0.3487	0.3025	0.1531	0.1096	0.0950	0.1718	0.1347	0.1234
	400	0.0615	0.0621	0.0625	0.4821	0.3435	0.2973	0.1515	0.1079	0.0934	0.1635	0.1245	0.1124
	500	0.0486	0.0494	0.0501	0.4746	0.3360	0.2898	0.1491	0.1056	0.0910	0.1568	0.1166	0.1039
	630	0.0386	0.0396	0.0403	0.4729	0.3343	0.2880	0.1486	0.1050	0.0905	0.1535	0.1122	0.0991
	800	0.0313	0.0325	0.0335	0.4670	0.3284	0.2822	0.1467	0.1032	0.0887	0.1500	0.1082	0.0948
	1000	0.0262	0.0276	0.0288	0.4593	0.3207	0.2745	0.1443	0.1008	0.0862	0.1467	0.1045	0.0909

FD-0.6/1KV-CV-SWA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor	:	Non-compacted and compacted stranded annealed copper
Insulation	:	Cross-Linked polyethylene (XLPE)
Insulation color	:	Blue, Brown
Filler	:	Non-hygroscopic material
Binder tape	:	Non-hygroscopic tape
Inner sheath	:	Black polyvinyl chloride (PVC)
Amor	:	Galvanized Steel Wires
Outer sheath	:	Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	:	Maximum conductor temperature 90°C
	:	Circuit voltage not exceeding 1,200 Volts
Rated voltage	:	600 Volts between Line to Earth
	:	1,000 Volts between Line to Line
AC Testing voltage	:	3,500 Volts
Reference standard	:	IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

APPLICATION

B

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armor norminal (mm)	Sheath thickness norminal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (Ω/km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
2	1.5	Non-compacted	0.7	1.2	10.0	0.80	1.8	15.5	12.1	2,500	28	33	371	500/D
	2.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	17.5	7.41	2,100	37	43	536	500/D
	4	Non-Compacted	0.7	1.2	12.0	1.25	1.8	18.5	4.61	1,700	50	57	605	500/D
	6	Non-compacted	0.7	1.2	13.0	1.25	1.8	20.0	3.08	1,450	63	71	697	500/D
	10	Compacted	0.7	1.2	14.0	1.25	1.8	21.0	1.83	1,250	83	93	817	500/D
	16	Compacted	0.7	1.2	16.0	1.60	1.8	23.5	1.150	1,000	111	121	1155	500/D
	25	Compacted	0.9	1.2	19.5	1.60	1.8	27.0	0.727	1,050	147	156	1509	500/D
	35	Compacted	0.9	1.2	21.5	1.60	1.8	29.0	0.524	900	182	188	1797	500/D
	50	Compacted	1.0	1.2	24.5	1.60	2.0	32.5	0.387	850	219	222	2218	500/D
	70	Compacted	1.1	1.2	28.5	2.00	2.1	37.5	0.268	800	275	271	3105	500/D
	95	Compacted	1.1	1.2	32.0	2.00	2.2	41.0	0.193	650	337	325	3844	500/D
	120	Compacted	1.2	1.2	35.5	2.00	2.4	45.0	0.153	650	389	368	4638	500/D
	150	Compacted	1.4	1.3	39.0	2.50	2.5	50.0	0.124	700	444	412	5913	500/D
	185	Compacted	1.6	1.4	44.0	2.50	2.7	55.0	0.0991	700	509	463	7050	500/D
	240	Compacted	1.7	1.5	49.5	2.50	2.9	61.5	0.0754	650	600	534	8739	500/D
	300	Compacted	1.8	1.6	54.5	2.50	3.1	67.0	0.0601	600	684	597	10448	300/D
	400	Compacted	2.0	1.7	61.0	2.50	3.3	74.0	0.0470	600	783	670	12748	300/D

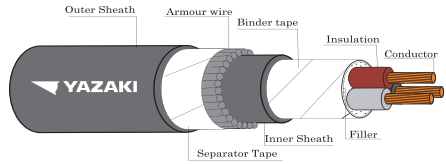
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9273	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6684	0.2567	0.0807	0.6733
	50	0.4938	0.2435	0.0765	0.4997
	70	0.3423	0.2395	0.0752	0.3504
	95	0.2468	0.2331	0.0732	0.2575
	120	0.1960	0.2289	0.0719	0.2088
	150	0.1593	0.2302	0.0723	0.1749
	185	0.1278	0.2326	0.0731	0.1472
	240	0.0981	0.2281	0.0717	0.1215
	300	0.0791	0.2260	0.0710	0.1063
	400	0.0630	0.2259	0.0710	0.0949

FD-0.6/1KV-CV-SWA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Galvanized Steel Wires

Outer sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armor norminal (mm)	Sheath thickness norminal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (Ω/km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
3	1.5	Non-Compacted	0.7	1.2	10.5	0.80	1.8	16.0	12.1	2,500	24	26	404	500/D
	2.5	Non-Compacted	0.7	1.2	11.5	1.25	1.8	18.0	7.41	2,100	32	34	580	500/D
	4	Non-Compacted	0.7	1.2	12.5	1.25	1.8	19.5	4.61	1,700	42	44	675	500/D
	6	Non-Compacted	0.7	1.2	14.0	1.25	1.8	20.5	3.08	1,450	53	55	787	500/D
	10	Compacted	0.7	1.2	15.0	1.25	1.8	21.5	1.83	1,250	71	72	943	500/D
	16	Compacted	0.7	1.2	17.0	1.60	1.8	24.5	1.150	1,000	94	93	1349	500/D
	25	Compacted	0.9	1.2	21.0	1.60	1.8	28.5	0.727	1,050	125	120	1772	500/D
	35	Compacted	0.9	1.2	23.0	1.60	1.9	31.0	0.524	900	154	145	2171	500/D
	50	Compacted	1.0	1.2	26.5	2.00	2.0	35.0	0.387	850	186	171	2958	500/D
	70	Compacted	1.1	1.2	30.5	2.00	2.2	39.5	0.268	800	233	208	3824	500/D
	95	Compacted	1.1	1.2	34.0	2.00	2.3	43.5	0.193	650	286	249	4833	500/D
	120	Compacted	1.2	1.3	38.0	2.50	2.5	49.0	0.153	650	332	283	6280	500/D
	150	Compacted	1.4	1.4	42.0	2.50	2.6	53.5	0.124	700	376	315	7446	500/D
	185	Compacted	1.6	1.5	47.5	2.50	2.8	59.0	0.0991	700	430	354	8970	500/D
	240	Compacted	1.7	1.6	53.5	2.50	3.0	65.5	0.0754	650	505	406	11245	300/D
	300	Compacted	1.8	1.7	59.0	2.50	3.2	71.5	0.0601	600	574	453	13504	300/D
	400	Compacted	2.0	1.8	66.0	3.15	3.5	80.5	0.0470	600	652	501	17500	300/D

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

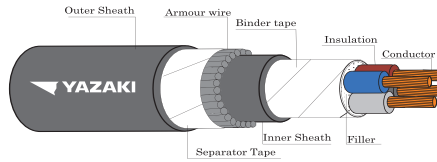
D : Packing in drum

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2289	0.0719	0.2091
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1283	0.2326	0.0731	0.1476
	240	0.0987	0.2281	0.0717	0.1219
	300	0.0798	0.2260	0.0710	0.1068
	400	0.0639	0.2259	0.0710	0.0955

B

FD-0.6/1KV-CV-SWA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Galvanized Steel Wires

Outer sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armor norminal (mm)	Sheath thickness norminal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (Ω/km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	1.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	18.0	12.1	2,500	24	26	569	500/D
	2.5	Non-Compacted	0.7	1.2	12.5	1.25	1.8	19.0	7.41	2,100	32	34	642	500/D
	4	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20.5	4.61	1,700	42	44	754	500/D
	6	Non-Compacted	0.7	1.2	15.0	1.25	1.8	22.0	3.08	1,450	53	55	901	500/D
	10	Compacted	0.7	1.2	16.5	1.60	1.8	24.0	1.83	1,250	71	72	1232	500/D
	16	Compacted	0.7	1.2	19.0	1.60	1.8	26.0	1.150	1,000	94	93	1579	500/D
	25	Compacted	0.9	1.2	23.0	1.60	1.9	30.5	0.727	1,050	125	120	2143	500/D
	35	Compacted	0.9	1.2	25.5	1.60	2.0	33.5	0.524	900	154	145	2638	500/D
4	50	Compacted	1.0	1.2	29.0	2.00	2.1	38.0	0.387	850	186	171	3578	500/D
	70	Compacted	1.1	1.2	33.5	2.00	2.3	43.0	0.268	800	233	208	4672	500/D
	95	Compacted	1.1	1.3	38.0	2.50	2.5	49.0	0.193	650	286	249	6404	500/D
	120	Compacted	1.2	1.4	42.5	2.50	2.6	53.5	0.153	650	332	283	7789	500/D
	150	Compacted	1.4	1.5	47.0	2.50	2.8	59.0	0.124	700	376	315	9280	500/D
	185	Compacted	1.6	1.6	53.0	2.50	3.0	65.0	0.0991	700	430	354	11228	500/D
	240	Compacted	1.7	1.7	59.5	2.50	3.2	72.0	0.0754	650	505	406	14070	300/D
	300	Compacted	1.8	1.8	65.5	3.15	3.5	80.0	0.0601	600	574	453	17934	300/D
	400	Compacted	2.0	2.0	73.5	3.15	3.8	89.0	0.0470	600	652	501	22103	300/D

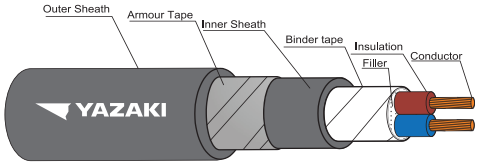
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
4	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2289	0.0719	0.2091
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1283	0.2326	0.0731	0.1476
	240	0.0987	0.2281	0.0717	0.1219
	300	0.0798	0.2260	0.0710	0.1068
	400	0.0639	0.2259	0.0710	0.0955

FD-0.6/1KV-CV-STA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED STEEL TAPE ARMOUR FLAME RETARDANT POWER CABLE



IEC 60502-1

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor	:	Non-compacted and compacted stranded annealed copper
Insulation	:	Cross-Linked polyethylene (XLPE)
Insulation color	:	Blue, Brown
Filler	:	Non-hygroscopic material
Binder tape	:	Non-hygroscopic tape
Inner sheath	:	Black polyvinyl chloride (PVC)
Amor	:	Two galvanized flat steel tape
Outer sheath	:	Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	:	Maximum conductor temperature 90°C
	:	Circuit voltage not exceeding 1,200 Volts
Rated voltage	:	600 Volts between Line to Earth
	:	1,000 Volts between Line to Line
AC Testing voltage	:	3,500 Volts
Reference standard	:	IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

Number of core	Norminal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Armor thickness nominal (mm)	Sheath thickness norminal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (Ω/km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
2	1.5	Non-Compacted	0.7	1.2	10.0	0.2	1.8	15.0	12.1	2,500	28	33	330	500/D
	2.5	Non-Compacted	0.7	1.2	11.0	0.2	1.8	16.0	7.41	2,100	37	43	373	500/D
	4	Non-Compacted	0.7	1.2	12.0	0.2	1.8	17.0	4.61	1,700	48	56	434	500/D
	6	Non-Compacted	0.7	1.2	13.0	0.2	1.8	18.5	3.08	1,450	61	70	510	500/D
	10	Compacted	0.7	1.2	14.0	0.2	1.8	19.5	1.83	1,250	82	92	613	500/D
	16	Compacted	0.7	1.2	16.0	0.2	1.8	21.5	1.150	1,000	108	120	789	500/D
	25	Compacted	0.9	1.2	19.5	0.2	1.8	25.0	0.727	1,050	144	154	1084	500/D
	35	Compacted	0.9	1.2	21.5	0.2	1.8	27.0	0.524	900	176	185	1325	500/D
	50	Compacted	1.0	1.2	24.5	0.2	1.9	30.0	0.387	850	213	219	1682	500/D
	70	Compacted	1.1	1.2	28.5	0.2	2.0	34.0	0.268	800	267	268	2227	500/D
	95	Compacted	1.1	1.2	32.0	0.5	2.2	39.0	0.193	650	331	322	3132	500/D
	120	Compacted	1.2	1.2	35.5	0.5	2.3	42.5	0.153	650	383	366	3813	500/D
	150	Compacted	1.4	1.3	39.0	0.5	2.4	46.5	0.124	700	435	409	4569	500/D
	185	Compacted	1.6	1.4	44.0	0.5	2.6	51.5	0.0991	700	500	461	5580	500/D
	240	Compacted	1.7	1.5	49.5	0.5	2.8	58.0	0.0754	650	590	531	7088	500/D
	300	Compacted	1.8	1.6	54.5	0.5	2.9	63.0	0.0601	600	676	596	8597	500/D
	400	Compacted	2.0	1.7	61.0	0.5	3.2	70.5	0.0470	600	765	664	10729	500/D

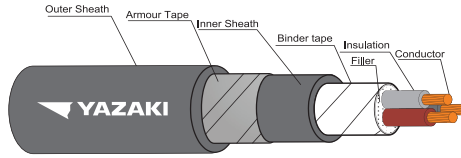
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9273	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4664	0.2614	0.0821	1.4688
	25	0.9271	0.2637	0.0829	0.9309
	35	0.6683	0.2567	0.0807	0.6733
	50	0.4936	0.2435	0.0765	0.4998
	70	0.3420	0.2395	0.0752	0.3506
	95	0.2465	0.2331	0.0732	0.2577
	120	0.1956	0.2289	0.0719	0.2091
	150	0.1587	0.2302	0.0723	0.1753
	185	0.1271	0.2326	0.0731	0.1476
	240	0.0971	0.2281	0.0717	0.1219
	300	0.0778	0.2260	0.0710	0.1068
	400	0.0615	0.2259	0.0710	0.0955

FD-0.6/1KV-CV-STA

0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED STEEL TAPE ARMOUR FLAME RETARDANT POWER CABLE



IEC 60502-1

Category C
FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Two galvanized flat steel tape

Outer sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Armor thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (Ω/km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	1.5	Non-Compacted	0.7	1.2	10.5	0.2	1.8	15.5	12.1	2,500	24	26	361	500/D
	2.5	Non-Compacted	0.7	1.2	11.5	0.2	1.8	17.0	7.41	2,100	32	34	414	500/D
	4	Non-Compacted	0.7	1.2	12.5	0.2	1.8	18.0	4.61	1,700	42	44	491	500/D
	6	Non-Compacted	0.7	1.2	14.0	0.2	1.8	19.0	3.08	1.450	53	55	589	500/D
	10	Compacted	0.7	1.2	15.0	0.2	1.8	20.5	1.83	1,250	71	72	731	500/D
	16	Compacted	0.7	1.2	17.0	0.2	1.8	22.5	1.150	1.000	94	93	963	500/D
	25	Compacted	0.9	1.2	21.0	0.2	1.8	26.0	0.727	1.050	125	120	1328	500/D
	35	Compacted	0.9	1.2	23.0	0.2	1.8	28.5	0.524	900	154	145	1667	500/D
3	50	Compacted	1.0	1.2	26.5	0.2	1.9	32.0	0.387	850	186	171	2136	500/D
	70	Compacted	1.1	1.2	30.5	0.2	2.1	36.5	0.268	800	233	208	2889	500/D
	95	Compacted	1.1	1.2	34.0	0.5	2.2	41.0	0.193	650	286	249	4038	500/D
	120	Compacted	1.2	1.3	38.0	0.5	2.4	45.5	0.153	650	332	283	4995	500/D
	150	Compacted	1.4	1.4	42.0	0.5	2.5	50.0	0.124	700	376	315	6033	500/D
	185	Compacted	1.6	1.5	47.5	0.5	2.7	55.5	0.0991	700	430	354	7400	500/D
	240	Compacted	1.7	1.6	53.5	0.5	2.9	62.0	0.0754	650	505	406	9443	300/D
	300	Compacted	1.8	1.7	59.0	0.5	3.1	68.0	0.0601	600	574	453	11570	300/D
	400	Compacted	2.0	1.8	66.0	0.5	3.3	75.5	0.0470	600	652	501	14417	300/D

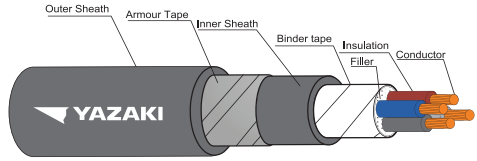
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9273	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4664	0.2614	0.0821	1.4688
	25	0.9271	0.2637	0.0829	0.9309
	35	0.6683	0.2567	0.0807	0.6733
3	50	0.4936	0.2435	0.0765	0.4998
	70	0.3420	0.2395	0.0752	0.3506
	95	0.2465	0.2331	0.0732	0.2577
	120	0.1956	0.2289	0.0719	0.2091
	150	0.1587	0.2302	0.0723	0.1753
	185	0.1271	0.2326	0.0731	0.1476
	240	0.0971	0.2281	0.0717	0.1219
	300	0.0778	0.2260	0.0710	0.1068
	400	0.0615	0.2259	0.0710	0.0955

FD-0.6/1KV-CV-STA

0.6/1kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

FLAME RETARDANT

CABLE STRUCTURE

Conductor : Non-compacted and compacted stranded annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Amor : Two galvanized flat steel tape

Outer sheath : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
: 1,000 Volts between Line to Line

AC Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1, IEC 60332-3-24 (Cat. C)

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Armor thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (Ω/km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	1.5	Non-Compacted	0.7	1.2	11.0	0.2	1.8	16.5	12.1	2,500	24	28	402	500/D
	2.5	Non-Compacted	0.7	1.2	12.5	0.2	1.8	18.0	7.41	2,100	31	37	466	500/D
	4	Non-Compacted	0.7	1.2	13.5	0.2	1.8	19.0	4.61	1,700	41	48	562	500/D
	6	Non-Compacted	0.7	1.2	15.0	0.2	1.8	20.5	3.08	1,450	52	59	687	500/D
	10	Compacted	0.7	1.2	16.5	0.2	1.8	21.5	1.83	1,250	69	78	868	500/D
	16	Compacted	0.7	1.2	19.0	0.2	1.8	24.0	1.150	1.000	91	101	1163	500/D
	25	Compacted	0.9	1.2	23.0	0.2	1.8	28.5	0.727	1,050	122	130	1639	500/D
	35	Compacted	0.9	1.2	25.5	0.2	1.9	31.0	0.524	900	149	156	2078	500/D
4	50	Compacted	1.0	1.2	29.0	0.2	2.0	35.0	0.387	850	181	185	2682	500/D
	70	Compacted	1.1	1.2	33.5	0.5	2.2	40.5	0.268	800	227	226	3890	500/D
	95	Compacted	1.1	1.3	38.0	0.5	2.4	45.5	0.193	650	281	272	5119	500/D
	120	Compacted	1.2	1.4	42.5	0.5	2.5	50.0	0.153	650	325	309	6338	500/D
	150	Compacted	1.4	1.5	47.0	0.5	2.7	55.0	0.124	700	370	345	7709	500/D
	185	Compacted	1.6	1.6	53.0	0.5	2.9	61.0	0.0991	700	426	389	9451	500/D
	240	Compacted	1.7	1.7	59.5	0.5	3.1	68.5	0.0754	650	504	449	12105	500/D
	300	Compacted	1.8	1.8	65.5	0.5	3.3	75.0	0.0601	600	576	504	14849	500/D
	400	Compacted	2.0	2.0	73.5	0.5	3.6	83.5	0.0470	600	662	567	18636	500/D

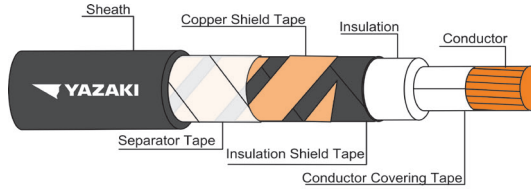
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
4	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2289	0.0719	0.2091
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1283	0.2326	0.0731	0.1476
	240	0.0987	0.2281	0.0717	0.1219
	300	0.0798	0.2260	0.0710	0.1068
	400	0.0639	0.2259	0.0710	0.0955

1.8/3KV-CV

1.8/3(3.6)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-1

CABLE STRUCTURE

Conductor	:	Compacted stranded annealed copper wire
Insulation	:	Cross-Linked polyethylene (XLPE)
Insulation shield	:	Semi-conductive tape
Insulation color	:	Natural (Translucent)
Shield	:	Copper tape
Separator tape	:	Non-hygroscopic material
Sheath	:	Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	:	Maximum conductor temperature 90°C
	:	Circuit voltage not exceeding 3,600 Volts
Rated voltage	:	1,800 Volts between Line to Earth
	:	3,000 Volts between Line to Line
AC Testing voltage	:	6,500 Volts
Reference standard	:	IEC 60502-1, IEC 60228, IEC 60332-1

APPLICATION

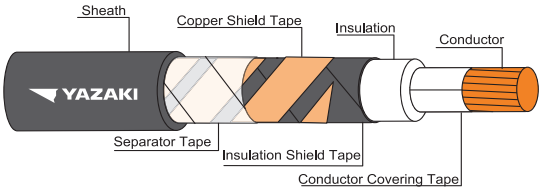
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of core	Nominal cross sectional area (mm^2)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard length per drum (m)
1	10	6	2.0	1.4	12.5	1.83	2,900	213	500
	16	6	2.0	1.4	13.5	1.15	2,450	280	500
	25	6	2.0	1.4	15.0	0.727	2,050	379	500
	35	6	2.0	1.4	16.0	0.524	1,800	479	500
	50	6	2.0	1.4	17.0	0.387	1,550	608	500
	70	12	2.0	1.5	19.0	0.268	1,350	827	500
	95	15	2.0	1.5	21.0	0.193	1,150	1087	500
	120	18	2.0	1.6	22.5	0.153	1,050	1351	500
	150	18	2.0	1.6	24.0	0.124	950	1621	500
	185	30	2.0	1.7	26.0	0.0991	850	1953	500
	240	34	2.0	1.8	28.5	0.0754	750	2556	500
	300	34	2.0	1.8	31.0	0.0601	700	3113	500
	400	53	2.0	2.0	34.0	0.0470	600	3961	500

1.8/3KV-CV

1.8/3(3.6)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive tape

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 3,600 Volts

Rated voltage : 1,800 Volts between Line to Earth
: 3,000 Volts between Line to Line

AC Testing voltage : 6,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1,

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

B

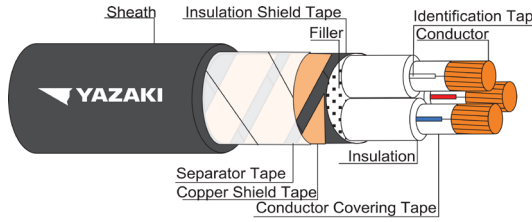
Number of core	Nominal cross sectional area (mm2)	Current rating in free air at 40°C (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	10	100	81	79	88	82	79	76
	16	132	106	104	113	106	101	98
	25	173	140	136	145	136	129	125
	35	211	171	166	173	163	157	148
	50	255	207	201	205	192	185	175
	70	321	261	253	251	235	225	217
	95	395	321	311	301	281	275	264
	120	457	373	362	342	319	312	299
	150	522	426	413	384	358	349	334
	185	601	492	476	434	403	393	376
	240	716	587	567	504	466	465	443
	300	827	678	654	571	525	524	498
	400	963	791	762	650	592	595	563

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Norminal cross sectional area (mm^2)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
1	10	2.3335	2.3335	2.3335	0.6258	0.4872	0.4410	0.1966	0.1531	0.1385	2.3418	2.3385	2.3376
	16	1.4664	1.4664	1.4664	0.5945	0.4559	0.4096	0.1868	0.1432	0.1287	1.4782	1.4734	1.4720
	25	0.9271	0.9271	0.9271	0.5669	0.4283	0.3820	0.1781	0.1346	0.1200	0.9441	0.9368	0.9348
	35	0.6683	0.6683	0.6683	0.5492	0.4106	0.3644	0.1725	0.1290	0.1145	0.6902	0.6806	0.6780
	50	0.4936	0.4937	0.4937	0.5223	0.3836	0.3374	0.1641	0.1205	0.1060	0.5202	0.5082	0.5050
	70	0.3420	0.3421	0.3422	0.5093	0.3706	0.3244	0.1600	0.1164	0.1019	0.3776	0.3614	0.3571
	95	0.2465	0.2466	0.2467	0.4940	0.3553	0.3091	0.1552	0.1116	0.0971	0.2913	0.2707	0.2651
	120	0.1956	0.1958	0.1959	0.4829	0.3443	0.2981	0.1517	0.1082	0.0937	0.2475	0.2237	0.2171
	150	0.1587	0.1590	0.1592	0.4749	0.3362	0.2900	0.1492	0.1056	0.0911	0.2178	0.1909	0.1834
	185	0.1271	0.1275	0.1277	0.4681	0.3295	0.2833	0.1471	0.1035	0.0890	0.1944	0.1642	0.1557
	240	0.0972	0.0976	0.0980	0.4595	0.3209	0.2747	0.1444	0.1008	0.0863	0.1740	0.1403	0.1306
	300	0.0779	0.0786	0.0791	0.4521	0.3135	0.2672	0.1420	0.0985	0.0839	0.1620	0.1260	0.1153
	400	0.0616	0.0624	0.0631	0.4478	0.3092	0.2630	0.1407	0.0971	0.0826	0.1536	0.1155	0.1040

1.8/3KV-CV

1.8/3(3.6)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-1

CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Insulation : Cross-Linked polyethylene (XLPE)

Filler : Non-hygroscopic material

Insulation shield : Semi-conductive tape

Core identification : White, Red, Blue

Shield : Copper tape

Separator tape : Non-hygroscopic material

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 3,600 Volts

Rated voltage : 1,800 Volts between Line to Earth
: 3,000 Volts between Line to Line

AC Testing voltage : 6,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

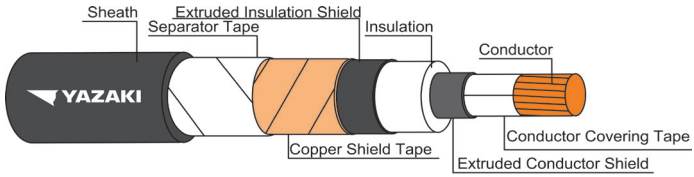
Number of cores	Nominal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	10	6	2.0	1.8	24.5	1.83	2,900	73	80	63	659	500
	16	6	2.0	1.8	27.0	1.15	2,450	96	103	81	873	500
	25	6	2.0	1.8	29.5	0.727	2,050	126	133	105	1184	500
	35	6	2.0	1.9	32.0	0.524	1,800	154	159	126	1512	500
	50	6	2.0	2.0	35.0	0.387	1,550	186	188	151	1929	500
	70	12	2.0	2.1	38.5	0.268	1,350	233	230	185	2617	500
	95	15	2.0	2.2	43.0	0.193	1,150	286	275	224	3447	500
	120	18	2.0	2.3	46.5	0.153	1,050	331	313	255	4279	500
	150	18	2.0	2.4	49.5	0.124	950	377	350	287	5145	500
	185	30	2.0	2.5	53.5	0.0991	850	434	395	327	6277	500
	240	34	2.0	2.7	59.0	0.0754	750	514	457	379	8089	500
	300	34	2.0	2.9	64.5	0.0601	700	589	513	432	9986	300
	400	53	2.0	3.1	70.5	0.0470	600	679	578	487	12561	300

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	10	2.3335	0.3685	0.1158	2.3364
	16	1.4665	0.3435	0.1079	1.4705
	25	0.9272	0.3222	0.1012	0.9327
	35	0.6684	0.3090	0.0971	0.6754
	50	0.4938	0.2868	0.0901	0.5020
	70	0.3423	0.2744	0.0862	0.3530
	95	0.2469	0.2640	0.0829	0.2605
	120	0.1962	0.2546	0.0800	0.2119
	150	0.1595	0.2493	0.0783	0.1777
	185	0.1281	0.2440	0.0767	0.1493
	240	0.0985	0.2359	0.0741	0.1233
	300	0.0797	0.2331	0.0732	0.1082
	400	0.0638	0.2288	0.0719	0.0961

3.6/6KV-CV

3.6/6(7.2)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

TIS 2143-2546

CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 7,200 Volts

Rated voltage : 3,600 Volts between Line to Earth
: 6,000 Volts between Line to Line

AC Testing voltage : 12,500 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1
TIS 2143-2546

Remark : *Insulation shield shall be applied semi-conductive tape (for size < 25 mm²)

B

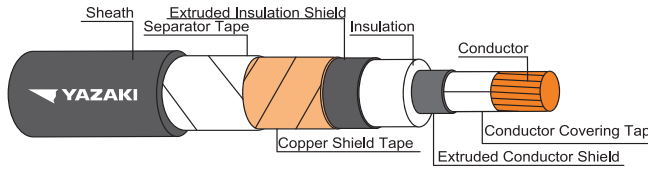
APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length per drum (m)
	10	6	2.5	1.4	15.0	1.83	2,850	267	500
	16	6	2.5	1.5	16.0	1.15	2,500	348	500
	25	6	2.5	1.5	18.5	0.727	2,150	479	500
	35	6	2.5	1.5	19.5	0.524	1,900	586	500
	50	6	2.5	1.6	21.0	0.387	1,700	731	500
	70	12	2.5	1.6	22.5	0.268	1,500	950	500
	95	15	2.5	1.7	24.5	0.193	1,300	1233	500
	120	18	2.5	1.7	26.0	0.153	1,200	1499	500
1	150	18	2.5	1.8	27.5	0.124	1,100	1790	500
	185	30	2.5	1.8	29.5	0.0991	1,000	2124	500
	240	34	2.6	1.9	32.5	0.0754	900	2723	500
	300	34	2.8	2.0	35.0	0.0601	900	3361	500
	400	53	3.0	2.1	38.5	0.0470	850	4241	500
	500	53	3.2	2.2	42.5	0.0366	800	5380	500
	630	53	3.2	2.4	46.5	0.0283	700	6795	500
	800	53	3.2	2.5	50.5	0.0221	600	8400	500
	1000	53	3.2	2.7	56.0	0.0176	550	10849	300

3.6/6KV-CV

3.6/6(7.2)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

TIS 2143-2546

CABLE STRUCTURE

Conductor	:	Compacted stranded annealed copper wire
Conductor shield	:	Semi-conductive Cross-linked polyethylene compound
Insulation	:	Cross-linked polyethylene (XLPE)
Insulation shield	:	Semi-conductive Cross-linked polyethylene compound
Insulation color	:	Natural (Translucent)
Shield	:	Copper tape
Separatior tape	:	Non-hygroscopic material
Sheath	:	Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	:	Maximum conductor temperature 90°C
	:	Circuit voltage not exceeding 7,200 Volts
Rated voltage	:	3,600 Volts between Line to Earth
	:	6,000 Volts between Line to Line
AC Testing voltage	:	12,500 Volts
Reference standard	:	IEC 60502-2, IEC 60228, IEC 60332-1 TIS 2143-2546
Remark	:	*Insulation shield shall be applied semi-conductive tape (for size < 25 mm²)

APPLICATION

B

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	10	100	83	81	88	83	79	76
	16	132	109	107	114	107	103	100
	25	175	145	142	145	137	132	127
	35	213	177	172	174	164	157	152
	50	256	213	208	206	193	185	178
	70	321	267	259	252	236	230	221
	95	393	327	318	302	282	275	264
	120	455	379	368	343	320	311	299
	150	518	432	419	385	359	356	340
	185	597	498	484	435	405	401	383
	240	710	594	575	505	469	464	443
	300	822	688	666	572	527	536	509
	400	960	804	777	652	597	610	577
	500	1126	943	908	744	675	707	666
	630	1308	1094	1048	847	756	802	750
	800	1504	1251	1191	952	835	921	856
	1000	1720	1422	1343	1058	909	1020	936

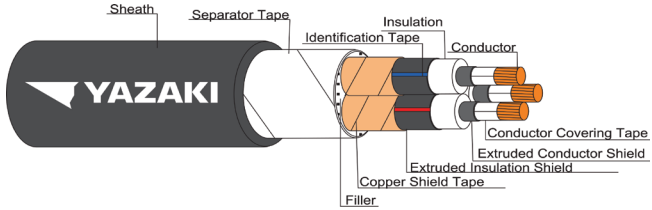
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	10	2.3335	2.3335	2.3335	0.6541	0.5155	0.4693	0.2055	0.1619	0.1474	2.3425	2.3391	2.3382
	16	1.4664	1.4664	1.4664	0.6260	0.4873	0.4411	0.1967	0.1531	0.1386	1.4795	1.4744	1.4729
	25	0.9271	0.9271	0.9271	0.6052	0.4665	0.4203	0.1901	0.1466	0.1320	0.9464	0.9386	0.9365
	35	0.6683	0.6683	0.6683	0.5863	0.4477	0.4015	0.1842	0.1406	0.1261	0.6932	0.6829	0.6801
	50	0.4936	0.4937	0.4937	0.5578	0.4191	0.3729	0.1752	0.1317	0.1171	0.5238	0.5110	0.5074
	70	0.3420	0.3421	0.3422	0.5377	0.3990	0.3528	0.1689	0.1253	0.1108	0.3814	0.3643	0.3597
	95	0.2465	0.2466	0.2467	0.5217	0.3831	0.3369	0.1639	0.1204	0.1058	0.2960	0.2744	0.2684
	120	0.1956	0.1958	0.1959	0.5072	0.3686	0.3223	0.1593	0.1158	0.1013	0.2523	0.2275	0.2205
	150	0.1587	0.1590	0.1592	0.4992	0.3606	0.3144	0.1568	0.1133	0.0988	0.2231	0.1952	0.1874
	185	0.1271	0.1275	0.1277	0.4915	0.3529	0.3067	0.1544	0.1109	0.0964	0.2000	0.1690	0.1600
	240	0.0972	0.0976	0.0978	0.4821	0.3435	0.2973	0.1515	0.1079	0.0934	0.1800	0.1455	0.1352
	300	0.0779	0.0784	0.0788	0.4772	0.3386	0.2924	0.1499	0.1064	0.0919	0.1689	0.1321	0.1210
	400	0.0616	0.0622	0.0627	0.4719	0.3332	0.2870	0.1483	0.1047	0.0902	0.1605	0.1218	0.1098
	500	0.0487	0.0495	0.0502	0.4672	0.3286	0.2823	0.1468	0.1032	0.0887	0.1546	0.1145	0.1019
	630	0.0386	0.0397	0.0406	0.4599	0.3213	0.2751	0.1445	0.1009	0.0864	0.1495	0.1085	0.0955
	800	0.0313	0.0327	0.0339	0.4528	0.3142	0.2680	0.1423	0.0987	0.0842	0.1457	0.1040	0.0908
	1000	0.0262	0.0279	0.0293	0.4445	0.3059	0.2596	0.1396	0.0961	0.0816	0.1421	0.1001	0.0867

3.6/6KV-CV

3.6/6(7.2)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Core identification : White, Red, Blue

Shield : Copper tape

Filler : Non-hygroscopic material

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 7,200 Volts

Rated voltage : 3,600 Volts between Line to Earth
: 6,000 Volts between Line to Line

AC Testing voltage : 12,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1

Remark : *Insulation shield shall be applied semi-conductive tape (for size < 25 mm²)

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard Length (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	10	6	2.5	2.0	29.5	1.83	2,850	81	85	65	801	500
	16	6	2.5	2.0	31.5	1.15	2,500	106	108	83	1108	500
	25	6	2.5	2.1	36.5	0.727	2,150	139	139	109	1548	500
	35	6	2.5	2.2	38.5	0.524	1,900	170	174	130	1900	500
	50	6	2.5	2.3	41.5	0.387	1,700	203	195	153	2361	500
	70	12	2.5	2.4	45.5	0.268	1,500	252	238	189	3088	500
	95	15	2.5	2.5	49.5	0.193	1,300	308	284	227	3979	500
	120	18	2.5	2.6	53.0	0.153	1,200	355	322	260	4850	500
	150	18	2.5	2.8	56.5	0.124	1,100	402	360	292	5773	500
	185	30	2.5	2.9	61.0	0.0991	1,000	461	406	329	6984	500
	240	34	2.6	3.1	67.5	0.0754	900	545	470	386	8920	300
	300	34	2.8	3.3	73.5	0.0601	900	625	529	434	10975	300
	400	53	3.0	3.5	80.5	0.0470	850	724	598	496	13719	300

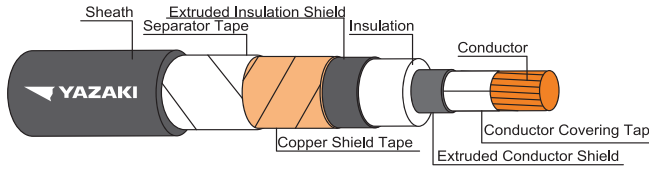
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	10	2.3335	0.4117	0.1293	2.3371
	16	1.4665	0.3827	0.1202	1.4714
	25	0.9272	0.3694	0.1161	0.9344
	35	0.6684	0.3529	0.1109	0.6775
	50	0.4938	0.3265	0.1026	0.5043
	70	0.3423	0.3102	0.0975	0.3559
	95	0.2469	0.2962	0.0931	0.2639
	120	0.1960	0.2843	0.0893	0.2154
	150	0.1593	0.2770	0.0870	0.1815
	185	0.1278	0.2721	0.0855	0.1538
	240	0.0981	0.2646	0.0831	0.1286
	300	0.0792	0.2606	0.0819	0.1139
	400	0.0632	0.2570	0.0807	0.1025

6/10KV-CV

6/10(12)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 12,000 Volts

Rated voltage : 6,000 Volts between Line to Earth
: 10,000 Volts between Line to Line

AC Testing voltage : 21,000 volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

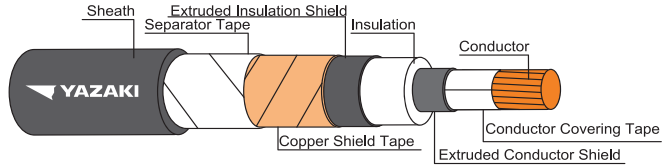
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length per drum (m)
1	16	6	3.4	1.5	19.0	1.15	3,100	438	500
	25	6	3.4	1.6	20.5	0.727	2,700	557	500
	35	6	3.4	1.6	21.5	0.524	2,450	668	500
	50	6	3.4	1.7	23.0	0.387	2,200	819	500
	70	12	3.4	1.7	24.5	0.268	1,900	1044	500
	95	15	3.4	1.8	26.5	0.193	1,700	1335	500
	120	18	3.4	1.8	28.0	0.153	1,550	1607	500
	150	18	3.4	1.9	29.5	0.124	1,450	1904	500
	185	30	3.4	1.9	31.5	0.0991	1,300	2246	500
	240	34	3.4	2.0	34.0	0.0754	1,150	2846	500
	300	34	3.4	2.1	36.5	0.0601	1,050	3471	500
	400	53	3.4	2.2	39.5	0.0470	950	4336	500
	500	53	3.4	2.3	43.0	0.0366	850	5458	500
	630	53	3.4	2.4	47.0	0.0283	750	6860	500
	800	53	3.4	2.5	51.0	0.0221	650	8472	500
	1000	53	3.4	2.6	56.5	0.0176	600	11010	300

6/10KV-CV

6/10(12)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 12,000 Volts

Rated voltage : 6,000 Volts between Line to Earth
: 10,000 Volts between Line to Line

AC Testing voltage : 21,000 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

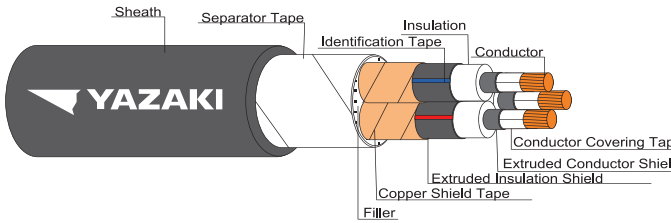
Number of core	Nominal cross sectional area (mm²)	Current rating in free air at 40°C (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	16	135	114	112	114	107	103	100
	25	177	150	146	146	137	132	127
	35	216	182	177	174	164	160	154
	50	260	219	213	206	193	189	181
	70	324	273	265	252	236	230	221
	95	397	334	325	302	282	274	263
	120	459	386	375	343	321	317	304
	150	521	439	426	385	359	355	340
	185	601	506	492	435	405	401	383
	240	713	601	583	506	469	464	442
	300	820	692	670	572	528	536	509
	400	954	804	777	652	597	609	576
	500	1116	939	905	744	675	706	665
	630	1299	1090	1045	847	756	802	750
	800	1494	1247	1188	952	835	920	855
	1000	1708	1417	1340	1058	909	1019	935

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
	(mm²)	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
1	16	1.4664	1.4664	1.4664	0.6597	0.5210	0.4748	0.2073	0.1637	0.1492	1.4810	1.4755	1.4740
	25	0.9271	0.9271	0.9271	0.6295	0.4908	0.4446	0.1978	0.1542	0.1397	0.9480	0.9398	0.9376
	35	0.6683	0.6683	0.6683	0.6093	0.4707	0.4244	0.1914	0.1479	0.1333	0.6952	0.6845	0.6815
	50	0.4936	0.4937	0.4937	0.5792	0.4406	0.3944	0.1820	0.1384	0.1239	0.5261	0.5127	0.5090
	70	0.3420	0.3421	0.3422	0.5576	0.4190	0.3728	0.1752	0.1316	0.1171	0.3843	0.3666	0.3617
	95	0.2465	0.2466	0.2467	0.5401	0.4015	0.3553	0.1697	0.1261	0.1116	0.2993	0.2770	0.2708
	120	0.1956	0.1958	0.1959	0.5245	0.3859	0.3397	0.1648	0.1212	0.1067	0.2558	0.2303	0.2231
	150	0.1587	0.1590	0.1590	0.5156	0.3770	0.3307	0.1620	0.1184	0.1039	0.2268	0.1983	0.1899
	185	0.1271	0.1273	0.1275	0.5068	0.3681	0.3219	0.1592	0.1156	0.1011	0.2037	0.1720	0.1627
	240	0.0972	0.0974	0.0978	0.4955	0.3569	0.3107	0.1557	0.1121	0.0976	0.1835	0.1485	0.1382
	300	0.0779	0.0784	0.0788	0.4868	0.3482	0.3020	0.1529	0.1094	0.0949	0.1716	0.1346	0.1233
	400	0.0616	0.0622	0.0627	0.4781	0.3394	0.2932	0.1502	0.1066	0.0921	0.1623	0.1234	0.1114
	500	0.0487	0.0495	0.0502	0.4709	0.3323	0.2861	0.1479	0.1044	0.0899	0.1557	0.1155	0.1029
	630	0.0386	0.0397	0.0406	0.4625	0.3239	0.2776	0.1453	0.1018	0.0872	0.1503	0.1092	0.0962
	800	0.0313	0.0327	0.0339	0.4552	0.3166	0.2703	0.1430	0.0995	0.0849	0.1464	0.1047	0.0914
	1000	0.0262	0.0279	0.0293	0.4466	0.3080	0.2618	0.1403	0.0968	0.0822	0.1427	0.1007	0.0873

6/10KV-CV

6/10(12)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Core identification : White, Red, Blue

Shield : Copper tape

Filler : Non-hygroscopic material

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 12,000 Volts

Rated voltage : 6,000 Volts between Line to Earth
: 10,000 Volts between Line to Line

AC Testing voltage : 21,000 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	16	6	3.4	2.2	38.0	1.15	3,100	109	108	86	1454	500
	25	6	3.4	2.2	40.5	0.727	2,700	142	139	110	1821	500
	35	6	3.4	2.3	43.0	0.524	2,450	173	166	132	2186	500
	50	6	3.4	2.4	46.0	0.387	2,200	207	196	156	2664	500
	70	12	3.4	2.6	49.5	0.268	1,900	257	239	191	3432	500
	95	15	3.4	2.7	54.0	0.193	1,700	313	285	231	4347	500
	120	18	3.4	2.8	57.5	0.153	1,550	360	323	262	5239	500
	150	18	3.4	2.9	60.5	0.124	1,450	407	361	293	6172	500
	185	30	3.4	3.0	65.0	0.0991	1,300	467	408	335	7425	300
	240	34	3.4	3.2	71.0	0.0754	1,150	549	471	388	9350	300
	300	34	3.4	3.3	76.0	0.0601	1,050	628	529	441	11312	300
	400	53	3.4	3.5	82.0	0.0470	950	721	597	497	13990	300

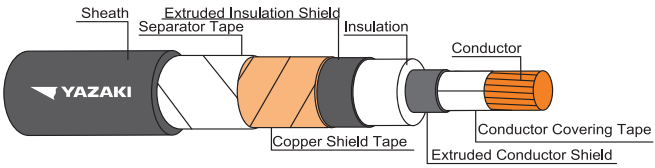
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	16	1.4665	0.4267	0.1341	1.4726
	25	0.9272	0.3977	0.1249	0.9356
	35	0.6684	0.3803	0.1195	0.6790
	50	0.4938	0.3511	0.1103	0.5060
	70	0.3421	0.3327	0.1045	0.3577
	95	0.2467	0.3167	0.0995	0.2660
	120	0.1960	0.3034	0.0953	0.2179
	150	0.1593	0.2950	0.0927	0.1843
	185	0.1278	0.2886	0.0907	0.1567
	240	0.0981	0.2782	0.0874	0.1314
	300	0.0790	0.2705	0.0850	0.1160
	400	0.0632	0.2630	0.0826	0.1040

8.7/15KV-CV

8.7/15(17.5)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 17,500 Volts

Rated voltage : 8,700 Volts between Line to Earth
: 15,000 Volts between Line to Line

AC Testing voltage : 30,500 volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground

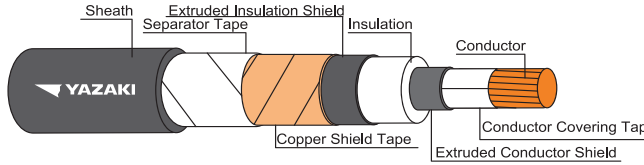
Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard length per drum (m)
1	25	6	4.5	1.6	22.5	0.727	3,300	635	500
	35	6	4.5	1.7	23.5	0.524	3,000	758	500
	50	6	4.5	1.7	25.0	0.387	2,700	905	500
	70	12	4.5	1.8	27.0	0.268	2,400	1146	500
	95	15	4.5	1.8	28.5	0.193	2,100	1432	500
	120	18	4.5	1.9	30.5	0.153	1,950	1722	500
	150	18	4.5	1.9	31.5	0.124	1,800	2012	500
	185	30	4.5	2.0	34.0	0.0991	1,650	2374	500
	240	34	4.5	2.1	36.5	0.0754	1,500	2984	500
	300	34	4.5	2.1	39.0	0.0601	1,350	3602	500
	400	53	4.5	2.2	41.5	0.0470	1,200	4476	500
	500	53	4.5	2.3	45.5	0.0366	1,100	5611	500
	630	53	4.5	2.4	49.0	0.0283	950	7025	500
	800	53	4.5	2.6	53.5	0.0221	850	8672	500
	1000	53	4.5	2.7	59.0	0.0176	750	11150	300

B

8.7/15KV-CV

8.7/15(17.5)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 17,500 Volts

Rated voltage : 8,700 Volts between Line to Earth
: 15,000 Volts between Line to Line

AC Testing voltage : 30,500 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
	25	177	151	148	146	137	134	129
	35	215	184	179	174	164	160	154
	50	258	220	215	206	194	188	181
	70	322	275	268	252	236	234	224
	95	394	336	327	301	283	279	268
	120	454	388	377	343	321	317	303
	150	517	441	429	385	360	354	339
1	185	595	508	494	435	406	400	382
	240	705	602	584	506	470	474	451
	300	805	688	667	572	529	534	508
	400	935	798	773	652	599	608	575
	500	1093	932	900	744	677	705	664
	630	1272	1081	1039	847	760	800	748
	800	1460	1235	1181	953	840	918	853
	1000	1669	1403	1331	1059	916	1016	932

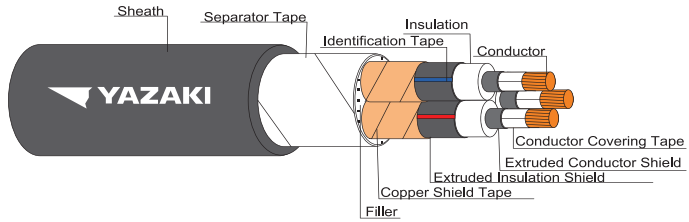
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
	25	0.9271	0.9271	0.9271	0.6511	0.5125	0.4663	0.2045	0.1610	0.1465	0.9494	0.9410	0.9386
	35	0.6683	0.6683	0.6683	0.6316	0.4930	0.4467	0.1984	0.1549	0.1403	0.6971	0.6860	0.6829
	50	0.4936	0.4937	0.4937	0.5986	0.4600	0.4138	0.1881	0.1445	0.1300	0.5282	0.5144	0.5105
	70	0.3420	0.3421	0.3422	0.5773	0.4387	0.3925	0.1814	0.1378	0.1233	0.3871	0.3688	0.3637
	95	0.2465	0.2466	0.2467	0.5569	0.4183	0.3721	0.1750	0.1314	0.1169	0.3023	0.2794	0.2730
	120	0.1956	0.1958	0.1957	0.5418	0.4032	0.3570	0.1702	0.1267	0.1122	0.2593	0.2332	0.2256
	150	0.1587	0.1588	0.1590	0.5307	0.3921	0.3459	0.1667	0.1232	0.1087	0.2302	0.2010	0.1926
1	185	0.1271	0.1273	0.1275	0.5227	0.3841	0.3379	0.1642	0.1207	0.1062	0.2077	0.1754	0.1659
	240	0.0972	0.0974	0.0976	0.5097	0.3711	0.3249	0.1601	0.1166	0.1021	0.1873	0.1519	0.1412
	300	0.0779	0.0782	0.0785	0.4991	0.3604	0.3142	0.1568	0.1132	0.0987	0.1751	0.1376	0.1261
	400	0.0616	0.0620	0.0624	0.4895	0.3508	0.3046	0.1538	0.1102	0.0957	0.1657	0.1264	0.1142
	500	0.0487	0.0494	0.0500	0.4814	0.3427	0.2965	0.1512	0.1077	0.0931	0.1589	0.1185	0.1057
	630	0.0386	0.0396	0.0404	0.4721	0.3335	0.2872	0.1483	0.1048	0.0902	0.1533	0.1120	0.0989
	800	0.0313	0.0325	0.0335	0.4648	0.3262	0.2799	0.1460	0.1025	0.0879	0.1493	0.1075	0.0941
	1000	0.0262	0.0277	0.0289	0.4553	0.3167	0.2704	0.1430	0.0995	0.0849	0.1454	0.1033	0.0897

8.7/15KV-CV

8.7/15(17.5)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Core identification : White, Red, Blue

Shield : Copper tape

Filler : Non-hygroscopic material

Separator tape : Non-hygroscopic tape

sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 17,500 Volts

Rated voltage : 8,700 Volts between Line to Earth
: 15,000 Volts between Line to Line

AC Testing voltage : 30,500 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

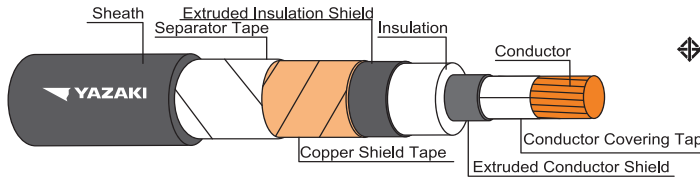
Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard Length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	25	6	4.5	2.4	45.5	0.727	3,300	142	137	112	2136	500
	35	6	4.5	2.5	48.0	0.524	3,000	173	165	134	2531	500
	50	6	4.5	2.6	51.0	0.387	2,700	208	195	159	3026	500
	70	12	4.5	2.7	54.5	0.268	2,400	258	238	194	3795	500
	95	15	4.5	2.8	59.0	0.193	2,100	314	284	232	4744	500
	120	18	4.5	2.9	62.5	0.153	1,950	362	323	267	5658	500
	150	18	4.5	3.1	66.0	0.124	1,800	409	361	299	6665	500
	185	30	4.5	3.2	70.5	0.0991	1,650	468	407	337	7909	300
	240	34	4.5	3.4	76.0	0.0754	1,500	551	470	393	9883	300
	300	34	4.5	3.5	81.0	0.0601	1,350	629	529	443	11893	300
	400	53	4.5	3.7	87.0	0.0470	1,200	722	598	505	14605	300

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	25	0.9272	0.4248	0.1335	0.9368
	35	0.6684	0.4057	0.1275	0.6804
	50	0.4938	0.3749	0.1178	0.5077
	70	0.3421	0.3546	0.1114	0.3598
	95	0.2467	0.3369	0.1058	0.2684
	120	0.1958	0.3223	0.1013	0.2204
	150	0.1591	0.3129	0.0983	0.1870
	185	0.1276	0.3053	0.0959	0.1596
	240	0.0978	0.2935	0.0922	0.1344
	300	0.0788	0.2848	0.0895	0.1192
	400	0.0628	0.2762	0.0868	0.1071

12/20KV-CV

12/20(24)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

TIS 2143-2546

CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 24,000 Volts

Rated voltage : 12,000 Volts between Line to Earth
: 20,000 Volts between Line to Line

AC Testing voltage : 42,000 volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1
TIS 2143-2546

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

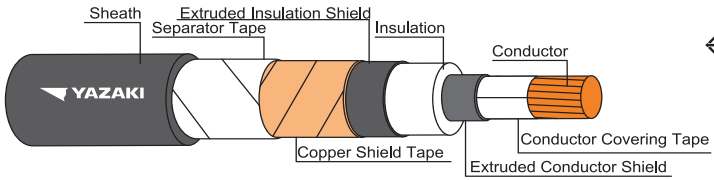
Number of core	Nominal cross sectional area (mm^2)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length per drum (m)
1	35	6	5.5	1.8	26.0	0.524	3,460	849	500
	50	6	5.5	1.8	27.0	0.387	3,130	1000	500
	70	12	5.5	1.8	29.0	0.268	2,790	1236	500
	95	15	5.5	1.9	31.0	0.193	2,500	1540	500
	120	18	5.5	2.0	32.5	0.153	2,290	1835	500
	150	18	5.5	2.0	34.0	0.124	2,130	2130	500
	185	30	5.5	2.1	36.0	0.0991	1,970	2499	500
	240	34	5.5	2.1	38.5	0.0754	1,770	3102	500
	300	34	5.5	2.2	41.0	0.0601	1,620	3744	500
	400	53	5.5	2.3	44.0	0.0470	1,480	4627	500
	500	53	5.5	2.4	47.5	0.0366	1,320	5775	500
	630	53	5.5	2.5	51.5	0.0283	1,190	7202	500
	800	53	5.5	2.6	55.5	0.0221	1,070	8841	500
	1000	53	5.5	2.8	61.0	0.0176	940	11361	300

12/20KV-CV

12/20(24)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2

TIS 2143-2546



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 24,000 Volts

Rated voltage : 12,000 Volts between Line to Earth
: 20,000 Volts between Line to Line

AC Testing voltage : 42,000 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1 TIS 2143-2546

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	35	210	183	179	174	164	160	154
	50	253	219	214	206	194	192	184
	70	315	273	266	252	237	233	224
	95	385	333	325	302	283	279	267
	120	445	385	375	343	321	316	303
	150	506	438	426	385	360	354	338
	185	581	503	490	435	406	408	389
	240	689	595	579	506	470	473	450
	300	792	684	665	572	529	533	507
	400	920	794	770	653	600	618	585
	500	1066	920	890	744	678	703	662
	630	1241	1067	1028	848	762	816	764
	800	1423	1221	1169	954	844	916	851
	1000	1628	1385	1318	1060	920	1043	963

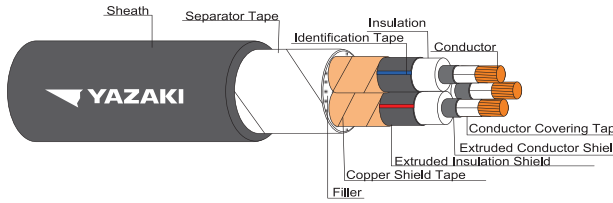
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	35	0.6683	0.6683	0.6683	0.6493	0.5107	0.4645	0.2040	0.1604	0.1459	0.6987	0.6873	0.6840
	50	0.4936	0.4937	0.4937	0.6155	0.4769	0.4307	0.1934	0.1498	0.1353	0.5301	0.5159	0.5119
	70	0.3420	0.3421	0.3420	0.5918	0.4531	0.4069	0.1859	0.1423	0.1278	0.3893	0.3705	0.3651
	95	0.2465	0.2466	0.2467	0.5718	0.4332	0.3870	0.1796	0.1361	0.1216	0.3050	0.2817	0.2750
	120	0.1956	0.1956	0.1957	0.5565	0.4179	0.3716	0.1748	0.1313	0.1167	0.2623	0.2356	0.2279
	150	0.1587	0.1588	0.1590	0.5448	0.4061	0.3599	0.1712	0.1276	0.1131	0.2334	0.2037	0.1951
	185	0.1271	0.1273	0.1275	0.5353	0.3967	0.3505	0.1682	0.1246	0.1101	0.2108	0.1781	0.1685
	240	0.0972	0.0974	0.0976	0.5204	0.3818	0.3355	0.1635	0.1199	0.1054	0.1902	0.1545	0.1436
	300	0.0779	0.0782	0.0785	0.5101	0.3715	0.3253	0.1603	0.1167	0.1022	0.1782	0.1405	0.1289
	400	0.0614	0.0620	0.0624	0.4998	0.3612	0.3150	0.1570	0.1135	0.0990	0.1686	0.1293	0.1170
	500	0.0487	0.0494	0.0498	0.4908	0.3522	0.3060	0.1542	0.1106	0.0961	0.1617	0.1212	0.1083
	630	0.0386	0.0396	0.0402	0.4909	0.3422	0.2960	0.1542	0.1075	0.0930	0.1590	0.1146	0.1013
	800	0.0313	0.0325	0.0333	0.4722	0.3335	0.2873	0.1483	0.1048	0.0903	0.1516	0.1097	0.0962
	1000	0.0262	0.0277	0.0287	0.4626	0.3240	0.2778	0.1453	0.1018	0.0873	0.1477	0.1055	0.0919

12/20KV-CV

12/20(24)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Core identification : White, Red, Blue

Shield : Copper tape

Filler : Non-hygroscopic material

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 24,000 Volts

Rated voltage : 12,000 Volts between Line to Earth
: 20,000 Volts between Line to Line

AC Testing voltage : 42,000 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area	Number of wires minimum	Insulation thickness nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 20°C minimum	Maximum Current Rating			Cable weight approx.	Standard Length per drum
								In air at 40°C	Direct burial at 30°C	Underground duct at 30°C		
	(mm^2)	(No.)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(A)	(A)	(kg/km)	(m)
3	35	6	5.5	2.7	52.5	0.524	3,460	169	161	136	2865	500
	50	6	5.5	2.8	56.0	0.387	3,130	204	191	160	3382	500
	70	12	5.5	2.9	59.5	0.268	2,790	254	234	195	4178	500
	95	15	5.5	3.0	64.0	0.193	2,500	311	281	236	5167	500
	120	18	5.5	3.1	67.5	0.153	2,290	358	319	268	6109	500
	150	18	5.5	3.2	70.5	0.124	2,130	405	358	300	7093	300
	185	30	5.5	3.3	75.0	0.0991	1,970	463	404	342	8376	300
	240	34	5.5	3.5	80.5	0.0754	1,770	546	468	395	10379	300
	300	34	5.5	3.7	86.0	0.0601	1,620	622	526	448	12449	300
	400	53	5.5	3.9	92.0	0.0470	1,480	715	595	506	15203	200

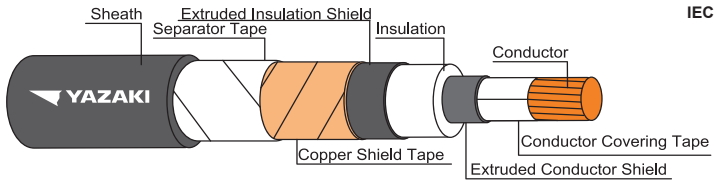
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Norminal cross sectional area	A.C. Resistance	Inductance	Reactance	Impedance
		R	L	XL	Z
	(mm^2)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
3	35	0.6684	0.4254	0.1336	0.6816
	50	0.4938	0.3935	0.1236	0.5090
	70	0.3421	0.3720	0.1169	0.3615
	95	0.2467	0.3530	0.1109	0.2705
	120	0.1958	0.3375	0.1060	0.2227
	150	0.1591	0.3273	0.1028	0.1894
	185	0.1276	0.3187	0.1001	0.1622
	240	0.0978	0.3059	0.0961	0.1371
	300	0.0788	0.2964	0.0931	0.1220
	400	0.0628	0.2870	0.0902	0.1099

18/30KV-CV

18/30(36)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Insulation color : Natural (Translucent)

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 36,000 Volts

Rated voltage : 18,000 Volts between Line to Earth
: 30,000 Volts between Line to Line

AC Testing voltage : 63,000 volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

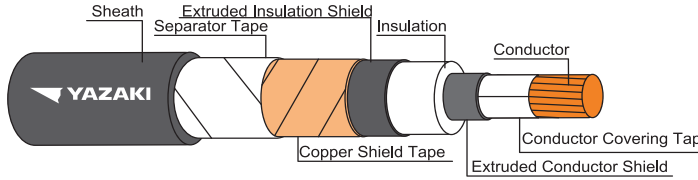
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of cores	Nominal cross sectional area (mm²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard length per drum (m)
1	50	6	8.0	2.0	32.5	0.387	4,010	1264	500
	70	12	8.0	2.0	34.5	0.268	3,620	1513	500
	95	15	8.0	2.1	36.5	0.193	3,260	1834	500
	120	18	8.0	2.1	38.0	0.153	3,020	2128	500
	150	18	8.0	2.2	39.5	0.124	2,820	2450	500
	185	30	8.0	2.2	41.5	0.0991	2,620	2820	500
	240	34	8.0	2.3	44.0	0.0754	2,370	3460	500
	300	34	8.0	2.4	46.5	0.0601	2,190	4122	500
	400	53	8.0	2.5	49.0	0.0470	2,000	5029	500
	500	53	8.0	2.6	53.0	0.0366	1,800	6208	500
	630	53	8.0	2.7	57.0	0.0283	1,630	7667	500
	800	53	8.0	2.8	61.0	0.0221	1,480	9338	300
	1000	53	8.0	3.0	67.0	0.0176	1,300	11922	300

18/30KV-CV

18/30(36)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Shield : Copper tape

Separator tape : Non-hygroscopic tape

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 36,000 Volts

Rated voltage : 18,000 Volts between Line to Earth
: 30,000 Volts between Line to Line

AC Testing voltage : 63,000 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

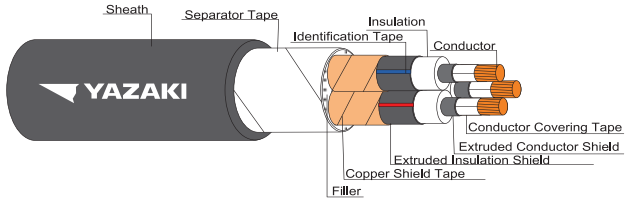
Number of core	Norminal cross sectional area (mm²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	50	256	226	221	206	194	191	183
	70	319	281	275	252	237	237	228
	95	390	343	335	302	283	284	271
	120	450	395	385	343	322	322	308
	150	510	448	437	385	360	360	344
	185	586	514	501	390	364	364	347
	240	693	607	591	506	471	479	456
	300	796	696	678	572	530	541	513
	400	923	807	784	652	602	615	582
	500	1076	939	910	745	681	714	672
	630	1251	1088	1051	849	767	811	759
	800	1437	1243	1195	955	851	935	871
	1000	1640	1411	1348	1062	930	1036	956

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Norminal cross sectional area (mm²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	50	0.4936	0.4937	0.4937	0.6525	0.5139	0.4676	0.2050	0.1614	0.1469	0.5345	0.5194	0.5151
	70	0.3420	0.3421	0.3420	0.6268	0.4882	0.4420	0.1969	0.1534	0.1389	0.3946	0.3749	0.3691
	95	0.2465	0.2466	0.2465	0.6048	0.4661	0.4199	0.1900	0.1464	0.1319	0.3112	0.2868	0.2796
	120	0.1956	0.1956	0.1957	0.5862	0.4475	0.4013	0.1842	0.1406	0.1261	0.2687	0.2409	0.2328
	150	0.1587	0.1588	0.1588	0.5743	0.4357	0.3895	0.1804	0.1369	0.1224	0.2403	0.2097	0.2005
	185	0.1271	0.1273	0.1273	0.5622	0.4236	0.3774	0.1766	0.1331	0.1186	0.2176	0.1842	0.1740
	240	0.0972	0.0974	0.0974	0.5466	0.4080	0.3618	0.1717	0.1282	0.1137	0.1973	0.1610	0.1497
	300	0.0779	0.0782	0.0783	0.5349	0.3963	0.3501	0.1680	0.1245	0.1100	0.1852	0.1470	0.1350
	400	0.0614	0.0618	0.0621	0.5231	0.3845	0.3383	0.1643	0.1208	0.1063	0.1754	0.1357	0.1231
	500	0.0487	0.0491	0.0491	0.5124	0.3738	0.3275	0.1610	0.1174	0.1029	0.1682	0.1273	0.1140
	630	0.0386	0.0392	0.0398	0.5009	0.3622	0.3160	0.1574	0.1138	0.0993	0.1620	0.1204	0.1070
	800	0.0313	0.0321	0.0329	0.4908	0.3522	0.3059	0.1542	0.1106	0.0961	0.1573	0.1152	0.1016
	1000	0.0262	0.0272	0.0282	0.4802	0.3415	0.2953	0.1509	0.1073	0.0928	0.1531	0.1107	0.0970

18/30KV-CV

18/30(36)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

CABLE STRUCTURE

Conductor : Compacted stranded annealed copper wire

Conductor shield : Semi-conductive Cross-linked polyethylene compound

Insulation : Cross-Linked polyethylene (XLPE)

Insulation shield : Semi-conductive Cross-linked polyethylene compound

Core identification : White, Red, Blue

Shield : Copper tape

Filler : Non-hygroscopic material

Separator tape : Non-hygroscopic tape

sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 36,000 Volts

Rated voltage : 18,000 Volts between Line to Earth
: 30,000 Volts between Line to Line

AC Testing voltage : 63,000 Volts

Reference standard : IEC 60502-2, IEC 60228, IEC 60332-1

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Norminal cross sectional area	Number of wires minimum	Insulation thickness nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 20°C minimum	Maximum Current Rating			Cable weight approx.	Standard Length per drum
								In air at 40°C	Direct burial at 30°C	Under-ground duct at 30°C		
	(mm^2)	(No.)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(A)	(A)	(kg/km)	(m)
3	50	6	8.0	3.2	67.5	0.387	4,010	205	190	164	4418	500
	70	12	8.0	3.3	71.5	0.268	3,620	262	236	199	5270	300
	95	15	8.0	3.4	75.5	0.193	3,260	320	284	240	6308	300
	120	18	8.0	3.5	79.0	0.153	3,020	368	323	273	7313	300
	150	18	8.0	3.6	82.0	0.124	2,820	417	362	305	8338	300
	185	30	8.0	3.7	86.5	0.0991	2,620	477	409	347	9691	300
	240	34	8.0	3.9	92.5	0.0754	2,370	561	473	401	11798	300
	300	34	8.0	4.0	97.5	0.0601	2,190	640	533	455	13923	200

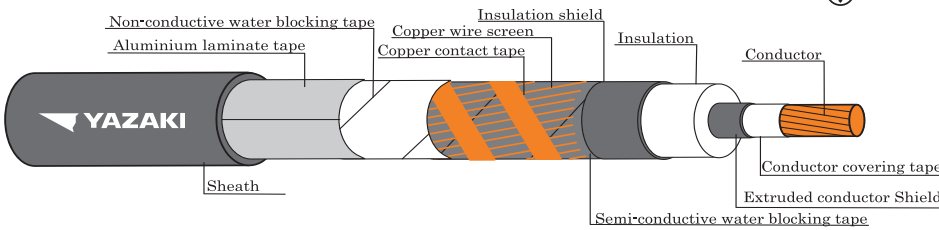
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Norminal cross sectional area	A.C. Resistance	Inductance	Reactance	Impedance
	(mm^2)	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3	50	0.4938	0.4336	0.1362	0.5122
	70	0.3421	0.4097	0.1287	0.3655
	95	0.2467	0.3883	0.1220	0.2752
	120	0.1958	0.3710	0.1166	0.2279
	150	0.1589	0.3593	0.1129	0.1949
	185	0.1274	0.3488	0.1096	0.1680
	240	0.0976	0.3340	0.1049	0.1433
	300	0.0785	0.3228	0.1014	0.1282
	400	0.0624	0.3117	0.0979	0.1161

69KV-CE

69kV 90°C CROSS-LINKED POLYETHYLENE INSULATED WITH COPPER WIRE SCREEN AND POLYETHYLENE SHEATHED POWER CABLE

TIS 2202-2547



CABLE STRUCTURE

Conductor	:	Compacted stranded annealed copper wire
Tape on Conductor	:	Semi-Conductive tape
Conductor shield	:	Semi-conductive Cross-linked polyethylene compound
Insulation	:	Cross-Linked polyethylene (XLPE)
Insulation shield	:	Semi-conductive Cross-linked polyethylene compound
Insulation color	:	Natural (Translucent)
Water blocking tape	:	Non-conductive water blocking tape
Metallic screen	:	Copper wire screen with copper contact tape
Synthetic water blocking and cushioning tape	:	Non-conductive water blocking tape
Radial water barrier	:	Aluminium laminate tape
Sheath	:	Black polyethylene (PE/ST7)

TECHNICAL DATA

Classification	:	Maximum conductor temperature 90°C
AC Testing voltage	:	90,000 Volts
Reference standard	:	TIS 2202-2547, TIS 2427-2552 IEC 60228

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area	Number of wires minimum	Conductor diameter approx.	Conductor shield thickness nominal	Insulation thickness nominal	Insulation shield thickness nominal	Copper wire area nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Cable weight approx.	Standard Length per drum
	(mm^2)	(No.)	(mm)	(mm)	(mm)	(mm)	(mm^2)	(mm)	(mm)	(Ω/km)	(kg/km)	(m)
1	400/95	53	23.5	1.5	11.0	1.5	95	3.5	67.5	0.0470	7000	500
	500/95	53	26.7	1.5	11.0	1.5	95	3.5	71.0	0.0366	8200	500
	630/95	53	30.3	1.5	11.0	1.5	95	3.5	74.5	0.0283	10000	500
	800/95	53	34.1	1.5	11.0	1.5	95	3.5	78.5	0.0221	11500	500
	800/120	53	34.1	1.5	11.0	1.5	120	3.5	78.5	0.0221	11500	500

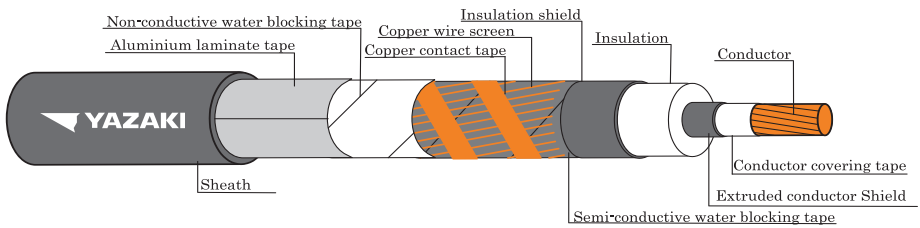
Number of core	Nominal cross sectional area	Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)		A.C. Resistance R (Ω/km)		Inductance L (mH/km)		Reactance XL (Ω/km)		Impedance Z (Ω/km)	
	(mm^2)	Space	Trefoil	Space	Trefoil	Space	Trefoil	Space	Trefoil	Space	Trefoil	Space	Trefoil
1	400/95	873	611	644	607	0.0613	0.0617	0.5835	0.3987	0.1833	0.1253	0.1933	0.1396
	500/95	1001	695	732	688	0.0485	0.0490	0.5679	0.3831	0.1784	0.1204	0.1849	0.1299
	630/95	1145	788	832	778	0.0384	0.0392	0.5543	0.3694	0.1741	0.1161	0.1783	0.1225
	800/95	1295	881	951	885	0.0311	0.0321	0.5411	0.3563	0.1700	0.1119	0.1728	0.1164
	800/120	1295	881	951	885	0.0311	0.0321	0.5411	0.3563	0.1700	0.1119	0.1728	0.1164

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

115KV-CE

115kV 90°C CROSS-LINKED POLYETHYLENE INSULATED WITH COPPER WIRE SCREEN AND POLYETHYLENE SHEATHED POWER CABLE

TIS 2202-2547



CABLE STRUCTURE

Conductor	:	Compacted stranded annealed copper wire
Tape on Conductor	:	Semi-Conductive tape
Conductor shield	:	Semi-conductive Cross-linked polyethylene compound
Insulation	:	Cross-Linked polyethylene (XLPE)
Insulation shield	:	Semi-conductive tape Cross-linked polyethylene compound
Insulation color	:	Natural (Translucent)
Water blocking tape	:	Semi-conductive water blocking tape
Metallic screen	:	Copper wire screen with copper contact tape
Synthetic water blocking and cushioning tape	:	Non-conductive water blocking tape
Radial water barrier	:	Aluminium laminate tape
Sheath	:	Black polyethylene (PE/ST7)

TECHNICAL DATA

Classification	:	Maximum conductor temperature 90°C
AC Testing voltage	:	160,000 Volts
Reference standard	:	TIS 2202-2547, TIS 2427-2552 IEC 60228

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

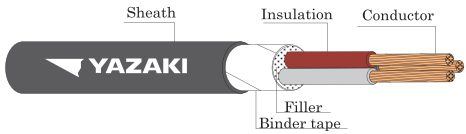
Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No.)	Conductor diameter approx. (mm)	Conductor shield thickness nominal (mm)	Insulation thickness nominal (mm)	Insulation shield thickness nominal (mm)	Copper wire area nominal (mm²)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Cable weight approx. (kg/km)	Standard Length per drum (m)
1	400/95	53	23.5	1.5	16.0	1.5	95	3.5	77.0	0.0470	8000	500
	500/95	53	26.7	1.5	16.0	1.5	95	3.6	80.5	0.0366	9000	500
	630/95	53	30.3	1.5	16.0	1.5	95	3.6	84.0	0.0283	11000	500
	800/95	53	34.1	1.5	16.0	1.5	95	3.7	87.5	0.0221	12500	500
	800/120	53	34.1	1.5	16.0	1.5	120	3.7	87.5	0.0221	12600	500

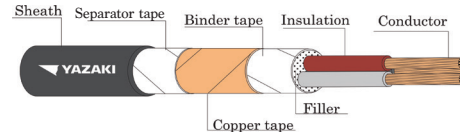
Number of core	Nominal cross sectional area (mm²)	Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)		A.C. Resistance R (Ω/km)		Inductance L (mH/km)		Reactance XL (Ω/km)		Impedance Z (Ω/km)	
		Space	Trefoil	Space	Trefoil	Space	Trefoil	Space	Trefoil	Space	Trefoil	Space	Trefoil
1	400/95	850	607	646	608	0.0613	0.0617	0.6128	0.4279	0.1925	0.1344	0.2020	0.1479
	500/95	975	691	735	690	0.0485	0.0490	0.5958	0.4110	0.1872	0.1291	0.1934	0.1381
	630/95	1117	785	848	793	0.0384	0.0390	0.5805	0.3956	0.1824	0.1243	0.1864	0.1303
	800/95	1264	879	954	887	0.0311	0.0318	0.5665	0.3817	0.1780	0.1199	0.1807	0.1241
	800/120	1264	879	954	887	0.0311	0.0318	0.5665	0.3817	0.1780	0.1199	0.1807	0.1241

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE





CABLE STRUCTURE

Conductor : Flexible annealed copper

Insulation : Polyvinyl chloride (PVC)

Insulation color
2 Cores : Blue and Brown
3 Cores : Brown, Black, Grey
4 Cores : Blue, Brown, Black, Grey
More than 4 Cores :
Black with marking numbers, colored white, printed continuously throungout the whole length of insulated wires for the porpose of core identification.

Filler : Non-hygroscopic material

Binder tape and Separator tape : Non-hygroscopic tape

Shield (for CVV-S cable) : Copper tape

Sheath : Black polyvinyl chloride (PVC)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage no exceeding 600 Volts

AC Testing voltage : 2,000 Volts

Reference standard : THAI YAZAKI STANDARD

B

APPLICATION

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in the dry or wet cable trenches.

Number of core	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length (m)
2	0.5	Flexible	0.6	1.2	9.0	39.0	0.0130	80	300/D
	0.75	Flexible	0.6	1.2	9.5	26.0	0.0114	89	300/D
	1	Flexible	0.6	1.2	9.5	19.5	0.0104	100	300/D
	1.5	Flexible	0.6	1.2	10.0	13.3	0.0089	112	300/D
	2.5	Flexible	0.7	1.2	11.5	7.98	0.0081	154	300/D
	4	Flexible	0.8	1.2	13.0	4.95	0.0076	212	300/D
	6	Flexible	0.8	1.4	15.0	3.30	0.0061	293	300/D
3	0.5	Flexible	0.6	1.2	9.0	39.0	0.0130	91	300/D
	0.75	Flexible	0.6	1.2	9.5	26.0	0.0114	103	300/D
	1	Flexible	0.6	1.2	10.0	19.5	0.0104	115	300/D
	1.5	Flexible	0.6	1.2	10.5	13.3	0.0089	132	300/D
	2.5	Flexible	0.7	1.2	11.5	7.98	0.0081	184	300/D
	4	Flexible	0.8	1.4	14.0	4.95	0.0076	274	300/D
	6	Flexible	0.8	1.4	15.5	3.30	0.0061	370	300/D
4	0.5	Flexible	0.6	1.2	10.0	39.0	0.0130	101	300/D
	0.75	Flexible	0.6	1.2	10.5	26.0	0.0114	117	300/D
	1	Flexible	0.6	1.2	10.5	19.5	0.0104	138	300/D
	1.5	Flexible	0.6	1.2	11.0	13.3	0.0089	159	300/D
	2.5	Flexible	0.7	1.2	12.5	7.98	0.0081	223	300/D
	4	Flexible	0.8	1.4	15.0	4.95	0.0076	334	300/D
	6	Flexible	0.8	1.4	17.0	3.30	0.0061	462	300/D
5	0.5	Flexible	0.6	1.2	10.5	39.0	0.0130	118	300/D
	0.75	Flexible	0.6	1.2	11.0	26.0	0.0114	138	300/D
	1	Flexible	0.6	1.2	11.5	19.5	0.0104	158	300/D
	1.5	Flexible	0.6	1.2	12.0	13.3	0.0089	189	300/D
	2.5	Flexible	0.7	1.4	14.0	7.98	0.0081	280	300/D
	4	Flexible	0.8	1.4	16.5	4.95	0.0076	402	300/D
	6	Flexible	0.8	1.4	18.5	3.30	0.0061	557	300/D

D = Packing in drum

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

Number of core	Norminal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length (m)
	0.5	Flexible	0.6	1.2	11.5	39.0	0.0130	134	300/D
	0.75	Flexible	0.6	1.2	12.0	26.0	0.0114	158	300/D
	1	Flexible	0.6	1.2	12.0	19.5	0.0104	182	300/D
6	1.5	Flexible	0.6	1.2	13.0	13.3	0.0089	214	300/D
	2.5	Flexible	0.7	1.4	15.0	7.98	0.0081	326	300/D
	4	Flexible	0.8	1.4	18.0	4.95	0.0076	473	300/D
	6	Flexible	0.8	1.4	20.5	3.30	0.0061	658	300/D
	0.5	Flexible	0.6	1.2	11.5	39.0	0.0130	142	300/D
	0.75	Flexible	0.6	1.2	12.0	26.0	0.0114	168	300/D
	1	Flexible	0.6	1.2	12.0	19.5	0.0104	194	300/D
7	1.5	Flexible	0.6	1.2	13.0	13.3	0.0089	229	300/D
	2.5	Flexible	0.7	1.4	15.0	7.98	0.0081	351	300/D
	4	Flexible	0.8	1.4	18.0	4.95	0.0076	513	300/D
	6	Flexible	0.8	1.4	20.5	3.30	0.0061	718	300/D
	0.5	Flexible	0.6	1.2	12.0	39.0	0.0130	161	300/D
	0.75	Flexible	0.6	1.2	12.5	26.0	0.0114	191	300/D
	1	Flexible	0.6	1.2	13.0	19.5	0.0104	223	300/D
8	1.5	Flexible	0.6	1.4	14.5	13.3	0.0089	276	300/D
	2.5	Flexible	0.7	1.4	16.5	7.98	0.0081	405	300/D
	4	Flexible	0.8	1.4	19.5	4.95	0.0076	594	300/D
	6	Flexible	0.8	1.4	22.0	3.30	0.0061	826	300/D
	0.5	Flexible	0.6	1.2	12.5	39.0	0.0130	174	300/D
	0.75	Flexible	0.6	1.2	13.5	26.0	0.0114	207	300/D
	1	Flexible	0.6	1.4	14.0	19.5	0.0104	254	300/D
9	1.5	Flexible	0.6	1.4	15.5	13.3	0.0089	300	300/D
	2.5	Flexible	0.7	1.4	17.5	7.98	0.0081	454	300/D
	4	Flexible	0.8	1.4	20.5	4.95	0.0076	663	300/D
	6	Flexible	0.8	1.4	23.5	3.30	0.0061	935	300/D
	0.5	Flexible	0.6	1.2	13.5	39.0	0.0130	191	300/D
	0.75	Flexible	0.6	1.4	14.5	26.0	0.0114	249	300/D
	1	Flexible	0.6	1.4	15.0	19.5	0.0104	288	300/D
10	1.5	Flexible	0.6	1.4	16.5	13.3	0.0089	340	300/D
	2.5	Flexible	0.7	1.4	18.5	7.98	0.0081	500	300/D
	4	Flexible	0.8	1.4	22.0	4.95	0.0076	732	300/D
	6	Flexible	0.8	1.8	26.5	3.30	0.0061	1102	300/D
	0.5	Flexible	0.6	1.2	13.5	39.0	0.0130	200	300/D
	0.75	Flexible	0.6	1.4	14.5	26.0	0.0114	253	300/D
	1	Flexible	0.6	1.4	15.0	19.5	0.0104	295	300/D
11	1.5	Flexible	0.6	1.4	16.5	13.3	0.0089	351	300/D
	2.5	Flexible	0.7	1.4	18.5	7.98	0.0081	525	300/D
	4	Flexible	0.8	1.4	22.0	4.95	0.0076	767	300/D
	6	Flexible	0.8	1.8	26.5	3.30	0.0061	1155	300/D
	0.5	Flexible	0.6	1.4	14.5	39.0	0.0130	227	300/D
	0.75	Flexible	0.6	1.4	15.0	26.0	0.0114	270	300/D
	1	Flexible	0.6	1.4	15.5	19.5	0.0104	323	300/D
12	1.5	Flexible	0.6	1.4	17.0	13.3	0.0089	382	300/D
	2.5	Flexible	0.7	1.4	19.5	7.98	0.0081	568	300/D
	4	Flexible	0.8	1.4	23.0	4.95	0.0076	855	300/D
	6	Flexible	0.8	1.8	27.5	3.30	0.0061	1256	300/D
	0.5	Flexible	0.6	1.4	15.0	39.0	0.0130	247	300/D
	0.75	Flexible	0.6	1.4	16.0	26.0	0.0114	294	300/D
	1	Flexible	0.6	1.4	16.5	19.5	0.0104	343	300/D
13	1.5	Flexible	0.6	1.4	17.5	13.3	0.0089	405	300/D
	2.5	Flexible	0.7	1.4	20.0	7.98	0.0081	603	300/D
	4	Flexible	0.8	1.4	24.0	4.95	0.0076	915	300/D
	6	Flexible	0.8	1.8	28.5	3.30	0.0061	1344	300/D
	0.5	Flexible	0.6	1.4	15.0	39.0	0.0130	247	300/D
	0.75	Flexible	0.6	1.4	16.0	26.0	0.0114	297	300/D
	1	Flexible	0.6	1.4	16.5	19.5	0.0104	349	300/D
14	1.5	Flexible	0.6	1.4	17.5	13.3	0.0089	416	300/D
	2.5	Flexible	0.7	1.4	20.0	7.98	0.0081	626	300/D
	4	Flexible	0.8	1.4	24.0	4.95	0.0076	939	300/D
	6	Flexible	0.8	1.8	28.5	3.30	0.0061	1394	300/D

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

B

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

Number of core	Norminal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length (m)
	0.5	Flexible	0.6	1.4	15.5	39.0	0.0130	260	300/D
	0.75	Flexible	0.6	1.4	16.5	26.0	0.0114	317	300/D
	1	Flexible	0.6	1.4	17.0	19.5	0.0104	372	300/D
15	1.5	Flexible	0.6	1.4	18.0	13.3	0.0089	444	300/D
	2.5	Flexible	0.7	1.4	21.0	7.98	0.0081	672	300/D
	4	Flexible	0.8	1.8	26.0	4.95	0.0076	1061	300/D
	6	Flexible	0.8	1.8	29.5	3.30	0.0061	1503	300/D
	0.5	Flexible	0.6	1.4	15.5	39.0	0.0130	273	300/D
	0.75	Flexible	0.6	1.4	16.5	26.0	0.0114	329	300/D
	1	Flexible	0.6	1.4	17.0	19.5	0.0104	387	300/D
16	1.5	Flexible	0.6	1.4	18.5	13.3	0.0089	464	300/D
	2.5	Flexible	0.7	1.4	21.0	7.98	0.0081	702	300/D
	4	Flexible	0.8	1.8	26.5	4.95	0.0076	1108	300/D
	6	Flexible	0.8	1.8	30.0	3.30	0.0061	1570	300/D
	0.5	Flexible	0.6	1.4	16.5	39.0	0.0130	291	300/D
	0.75	Flexible	0.6	1.4	17.5	26.0	0.0114	362	300/D
	1	Flexible	0.6	1.4	18.0	19.5	0.0104	424	300/D
17	1.5	Flexible	0.6	1.4	19.5	13.3	0.0089	505	300/D
	2.5	Flexible	0.7	1.4	22.5	7.98	0.0081	771	300/D
	4	Flexible	0.8	1.8	27.5	4.95	0.0076	1202	300/D
	6	Flexible	0.8	1.8	31.5	3.30	0.0061	1707	300/D
	0.5	Flexible	0.6	1.4	16.5	39.0	0.0130	300	300/D
	0.75	Flexible	0.6	1.4	17.5	26.0	0.0114	363	300/D
	1	Flexible	0.6	1.4	18.0	19.5	0.0104	428	300/D
18	1.5	Flexible	0.6	1.4	19.5	13.3	0.0089	514	300/D
	2.5	Flexible	0.7	1.4	22.5	7.98	0.0081	780	300/D
	4	Flexible	0.8	1.8	27.5	4.95	0.0076	1219	300/D
	6	Flexible	0.8	1.8	31.5	3.30	0.0061	1727	300/D
	0.5	Flexible	0.6	1.4	16.5	39.0	0.0130	307	300/D
	0.75	Flexible	0.6	1.4	17.5	26.0	0.0114	372	300/D
	1	Flexible	0.6	1.4	18.0	19.5	0.0104	440	300/D
19	1.5	Flexible	0.6	1.4	19.5	13.3	0.0089	529	300/D
	2.5	Flexible	0.7	1.4	22.5	7.98	0.0081	805	300/D
	4	Flexible	0.8	1.8	27.5	4.95	0.0076	1258	300/D
	6	Flexible	0.8	1.8	31.5	3.30	0.0061	1785	300/D
	0.5	Flexible	0.6	1.4	16.5	39.0	0.0130	319	300/D
	0.75	Flexible	0.6	1.4	17.5	26.0	0.0114	387	300/D
	1	Flexible	0.6	1.4	18.0	19.5	0.0104	458	300/D
20	1.5	Flexible	0.6	1.4	20.0	13.3	0.0089	553	300/D
	2.5	Flexible	0.7	1.4	23.0	7.98	0.0081	847	300/D
	4	Flexible	0.8	1.8	28.5	4.95	0.0076	1330	300/D
	6	Flexible	0.8	1.8	32.5	3.30	0.0061	1888	300/D
	0.5	Flexible	0.6	1.4	17.0	39.0	0.0130	333	300/D
	0.75	Flexible	0.6	1.4	18.0	26.0	0.0114	405	300/D
	1	Flexible	0.6	1.4	18.5	19.5	0.0104	480	300/D
21	1.5	Flexible	0.6	1.4	20.0	13.3	0.0089	579	300/D
	2.5	Flexible	0.7	1.4	23.5	7.98	0.0081	883	300/D
	4	Flexible	0.8	1.8	29.0	4.95	0.0076	1385	300/D
	6	Flexible	0.8	1.8	33.5	3.30	0.0061	1967	300/D
	0.5	Flexible	0.6	1.4	18.0	39.0	0.0130	353	300/D
	0.75	Flexible	0.6	1.4	19.0	26.0	0.0114	430	300/D
	1	Flexible	0.6	1.4	19.5	19.5	0.0104	511	300/D
22	1.5	Flexible	0.6	1.4	21.0	13.3	0.0089	615	300/D
	2.5	Flexible	0.7	1.8	25.5	7.98	0.0081	990	300/D
	4	Flexible	0.8	1.8	30.5	4.95	0.0076	1467	300/D
	6	Flexible	0.8	1.8	35.0	3.30	0.0061	2085	300/D
	0.5	Flexible	0.6	1.4	18.0	39.0	0.0130	360	300/D
	0.75	Flexible	0.6	1.4	19.0	26.0	0.0114	439	300/D
	1	Flexible	0.6	1.4	19.5	19.5	0.0104	522	300/D
23	1.5	Flexible	0.6	1.4	21.0	13.3	0.0089	630	300/D
	2.5	Flexible	0.7	1.8	25.5	7.98	0.0081	1017	300/D
	4	Flexible	0.8	1.8	30.5	4.95	0.0076	1512	300/D
	6	Flexible	0.8	1.8	35.0	3.30	0.0061	2154	300/D

D = Packing in drum

B

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

Number of core	Norminal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length (m)
	0.5	Flexible	0.6	1.4	18.5	39.0	0.0130	379	300/D
	0.75	Flexible	0.6	1.4	20.0	26.0	0.0114	461	300/D
	1	Flexible	0.6	1.4	20.5	19.5	0.0104	546	300/D
24	1.5	Flexible	0.6	1.4	22.0	13.3	0.0089	660	300/D
	2.5	Flexible	0.7	1.8	26.5	7.98	0.0081	1062	300/D
	4	Flexible	0.8	1.8	32.0	4.95	0.0076	1579	300/D
	6	Flexible	0.8	2.2	37.5	3.30	0.0061	2316	300/D
	0.5	Flexible	0.6	1.4	18.5	39.0	0.0130	388	300/D
	0.75	Flexible	0.6	1.4	20.0	26.0	0.0114	473	300/D
	1	Flexible	0.6	1.4	20.5	19.5	0.0104	560	300/D
25	1.5	Flexible	0.6	1.4	22.0	13.3	0.0089	679	300/D
	2.5	Flexible	0.7	1.8	26.5	7.98	0.0081	1093	300/D
	4	Flexible	0.8	1.8	32.0	4.95	0.0076	1628	300/D
	6	Flexible	0.8	2.2	37.5	3.30	0.0061	2389	300/D
	0.5	Flexible	0.6	1.4	18.5	39.0	0.0130	397	300/D
	0.75	Flexible	0.6	1.4	20.0	26.0	0.0114	485	300/D
	1	Flexible	0.6	1.4	20.5	19.5	0.0104	576	300/D
26	1.5	Flexible	0.6	1.4	22.0	13.3	0.0089	699	300/D
	2.5	Flexible	0.7	1.8	26.5	7.98	0.0081	1124	300/D
	4	Flexible	0.8	1.8	32.0	4.95	0.0076	1678	300/D
	6	Flexible	0.8	2.2	37.5	3.30	0.0061	2465	300/D
	0.5	Flexible	0.6	1.4	19.0	39.0	0.0130	407	300/D
	0.75	Flexible	0.6	1.4	20.5	26.0	0.0114	497	300/D
	1	Flexible	0.6	1.4	21.0	19.5	0.0104	592	300/D
27	1.5	Flexible	0.6	1.4	22.5	13.3	0.0089	717	300/D
	2.5	Flexible	0.7	1.8	27.5	7.98	0.0081	1153	300/D
	4	Flexible	0.8	1.8	33.0	4.95	0.0076	1725	300/D
	6	Flexible	0.8	2.2	38.5	3.30	0.0061	2531	300/D
	0.5	Flexible	0.6	1.4	19.5	39.0	0.0130	432	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	529	300/D
	1	Flexible	0.6	1.4	21.5	19.5	0.0104	629	300/D
28	1.5	Flexible	0.6	1.4	23.5	13.3	0.0089	778	300/D
	2.5	Flexible	0.7	1.8	28.5	7.98	0.0081	1228	300/D
	4	Flexible	0.8	1.8	34.0	4.95	0.0076	1835	300/D
	6	Flexible	0.8	2.2	40.0	3.30	0.0061	2690	300/D
	0.5	Flexible	0.6	1.4	19.5	39.0	0.0130	430	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	528	300/D
	1	Flexible	0.6	1.4	21.5	19.5	0.0104	628	300/D
29	1.5	Flexible	0.6	1.4	23.5	13.3	0.0089	777	300/D
	2.5	Flexible	0.7	1.8	28.5	7.98	0.0081	1229	300/D
	4	Flexible	0.8	1.8	34.0	4.95	0.0076	1841	300/D
	6	Flexible	0.8	2.2	40.0	3.30	0.0061	2704	300/D
	0.5	Flexible	0.6	1.4	19.5	39.0	0.0130	440	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	540	300/D
	1	Flexible	0.6	1.4	21.5	19.5	0.0104	644	300/D
30	1.5	Flexible	0.6	1.4	23.5	13.3	0.0089	796	300/D
	2.5	Flexible	0.7	1.8	28.5	7.98	0.0081	1260	300/D
	4	Flexible	0.8	1.8	34.0	4.95	0.0076	1892	300/D
	6	Flexible	0.8	2.2	40.0	3.30	0.0061	2779	300/D
	0.5	Flexible	0.6	1.4	20.5	39.0	0.0130	468	300/D
	0.75	Flexible	0.6	1.4	21.5	26.0	0.0114	574	300/D
	1	Flexible	0.6	1.4	22.5	19.5	0.0104	686	300/D
31	1.5	Flexible	0.6	1.4	24.5	13.3	0.0089	846	300/D
	2.5	Flexible	0.7	1.8	29.5	7.98	0.0081	1338	300/D
	4	Flexible	0.8	1.8	35.0	4.95	0.0076	2006	300/D
	6	Flexible	0.8	2.2	41.5	3.30	0.0061	2945	300/D
	0.5	Flexible	0.6	1.4	20.5	39.0	0.0130	465	300/D
	0.75	Flexible	0.6	1.4	21.5	26.0	0.0114	573	300/D
	1	Flexible	0.6	1.4	22.5	19.5	0.0104	685	300/D
32	1.5	Flexible	0.6	1.4	24.5	13.3	0.0089	845	300/D
	2.5	Flexible	0.7	1.8	29.5	7.98	0.0081	1339	300/D
	4	Flexible	0.8	1.8	35.0	4.95	0.0076	2012	300/D
	6	Flexible	0.8	2.2	41.5	3.30	0.0061	2958	300/D

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

Number of cores	Norminal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length (m)
33	0.5	Flexible	0.6	1.4	20.5	39.0	0.0130	475	300/D
	0.75	Flexible	0.6	1.4	21.5	26.0	0.0114	585	300/D
	1	Flexible	0.6	1.4	22.5	19.5	0.0104	700	300/D
	1.5	Flexible	0.6	1.4	24.5	13.3	0.0089	865	300/D
	2.5	Flexible	0.7	1.8	29.5	7.98	0.0081	1370	300/D
	4	Flexible	0.8	1.8	35.0	4.95	0.0076	2063	300/D
	6	Flexible	0.8	2.2	41.5	3.30	0.0061	3034	300/D
34	0.5	Flexible	0.6	1.4	21.0	39.0	0.0130	504	300/D
	0.75	Flexible	0.6	1.4	22.5	26.0	0.0114	619	300/D
	1	Flexible	0.6	1.4	23.0	19.5	0.0104	752	300/D
	1.5	Flexible	0.6	1.8	26.0	13.3	0.0089	964	300/D
	2.5	Flexible	0.7	1.8	30.5	7.98	0.0081	1449	300/D
	4	Flexible	0.8	2.2	37.5	4.95	0.0076	2241	300/D
35	0.5	Flexible	0.6	1.4	21.0	39.0	0.0130	501	300/D
	0.75	Flexible	0.6	1.4	22.5	26.0	0.0114	617	300/D
	1	Flexible	0.6	1.4	23.0	19.5	0.0104	752	300/D
	1.5	Flexible	0.6	1.8	26.0	13.3	0.0089	964	300/D
	2.5	Flexible	0.7	1.8	30.5	7.98	0.0081	1449	300/D
	4	Flexible	0.8	2.2	37.5	4.95	0.0076	2248	300/D
36	0.5	Flexible	0.6	1.4	21.0	39.0	0.0130	511	300/D
	0.75	Flexible	0.6	1.4	22.5	26.0	0.0114	629	300/D
	1	Flexible	0.6	1.4	23.0	19.5	0.0104	767	300/D
	1.5	Flexible	0.6	1.8	26.0	13.3	0.0089	983	300/D
	2.5	Flexible	0.7	1.8	30.5	7.98	0.0081	1481	300/D
	4	Flexible	0.8	2.2	37.5	4.95	0.0076	2298	300/D
37	0.5	Flexible	0.6	1.4	21.0	39.0	0.0130	518	300/D
	0.75	Flexible	0.6	1.4	22.5	26.0	0.0114	640	300/D
	1	Flexible	0.6	1.4	23.0	19.5	0.0104	780	300/D
	1.5	Flexible	0.6	1.8	26.0	13.3	0.0089	1000	300/D
	2.5	Flexible	0.7	1.8	30.5	7.98	0.0081	1507	300/D
	4	Flexible	0.8	2.2	37.5	4.95	0.0076	2341	300/D
38	0.5	Flexible	0.6	1.4	21.5	39.0	0.0130	535	300/D
	0.75	Flexible	0.6	1.4	23.0	26.0	0.0114	661	300/D
	1	Flexible	0.6	1.4	23.5	19.5	0.0104	804	300/D
	1.5	Flexible	0.6	1.8	26.5	13.3	0.0089	1032	300/D
	2.5	Flexible	0.7	1.8	31.0	7.98	0.0081	1556	300/D
	4	Flexible	0.8	2.2	38.0	4.95	0.0076	2418	300/D
39	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	547	300/D
	0.75	Flexible	0.6	1.4	23.0	26.0	0.0114	675	300/D
	1	Flexible	0.6	1.4	24.0	19.5	0.0104	823	300/D
	1.5	Flexible	0.6	1.8	27.0	13.3	0.0089	1056	300/D
	2.5	Flexible	0.7	1.8	31.5	7.98	0.0081	1593	300/D
	4	Flexible	0.8	2.2	39.0	4.95	0.0076	2475	300/D
40	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	554	300/D
	0.75	Flexible	0.6	1.4	23.0	26.0	0.0114	685	300/D
	1	Flexible	0.6	1.4	24.0	19.5	0.0104	836	300/D
	1.5	Flexible	0.6	1.8	27.0	13.3	0.0089	1072	300/D
	2.5	Flexible	0.7	1.8	31.5	7.98	0.0081	1619	300/D
	4	Flexible	0.8	2.2	39.0	4.95	0.0076	2520	300/D
41	0.5	Flexible	0.6	1.4	22.5	39.0	0.0130	575	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	723	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	918	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1112	300/D
	2.5	Flexible	0.7	1.8	32.5	7.98	0.0081	1677	300/D
	4	Flexible	0.8	2.2	40.0	4.95	0.0076	2604	300/D

B

D = Packing in drum

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

Number of cores	Norminal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length (m)
42	0.5	Flexible	0.6	1.4	22.5	39.0	0.0130	584	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	736	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	933	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1130	300/D
	2.5	Flexible	0.7	1.8	32.5	7.98	0.0081	1708	300/D
	4	Flexible	0.8	2.2	40.0	4.95	0.0076	2654	300/D
43	0.5	Flexible	0.6	1.4	22.5	39.0	0.0130	591	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	745	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	945	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1146	300/D
	2.5	Flexible	0.7	1.8	32.5	7.98	0.0081	1736	300/D
	4	Flexible	0.8	2.2	40.0	4.95	0.0076	2701	300/D
44	0.5	Flexible	0.6	1.4	23.5	39.0	0.0130	609	300/D
	0.75	Flexible	0.6	1.8	26.0	26.0	0.0114	816	300/D
	1	Flexible	0.6	1.8	26.5	19.5	0.0104	970	300/D
	1.5	Flexible	0.6	1.8	29.0	13.3	0.0089	1178	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1782	300/D
45	0.5	Flexible	0.6	1.4	23.5	39.0	0.0130	618	300/D
	0.75	Flexible	0.6	1.8	26.0	26.0	0.0114	828	300/D
	1	Flexible	0.6	1.8	26.5	19.5	0.0104	986	300/D
	1.5	Flexible	0.6	1.8	29.0	13.3	0.0089	1197	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1813	300/D
46	0.5	Flexible	0.6	1.4	23.5	39.0	0.0130	628	300/D
	0.75	Flexible	0.6	1.8	26.0	26.0	0.0114	841	300/D
	1	Flexible	0.6	1.8	26.5	19.5	0.0104	1001	300/D
	1.5	Flexible	0.6	1.8	29.0	13.3	0.0089	1217	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1844	300/D
47	0.5	Flexible	0.6	1.4	23.5	39.0	0.0130	637	300/D
	0.75	Flexible	0.6	1.8	26.0	26.0	0.0114	853	300/D
	1	Flexible	0.6	1.8	26.5	19.5	0.0104	1016	300/D
	1.5	Flexible	0.6	1.8	29.0	13.3	0.0089	1236	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1876	300/D
48	0.5	Flexible	0.6	1.4	24.0	39.0	0.0130	659	300/D
	0.75	Flexible	0.6	1.8	26.5	26.0	0.0114	866	300/D
	1	Flexible	0.6	1.8	27.0	19.5	0.0104	1034	300/D
	1.5	Flexible	0.6	1.8	29.5	13.3	0.0089	1256	300/D
	2.5	Flexible	0.7	1.8	34.5	7.98	0.0081	1905	300/D

B

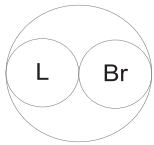
D = Packing in drum

This table show only flexible stranded condutor. If you want to have solid or concentric conductor type, please contact with our sales department for CW-S: The overall diameter of cable and cable weight shall be change a little bit more.
"Remark : Special protection can be produce.

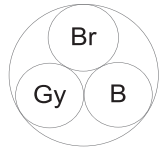
CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

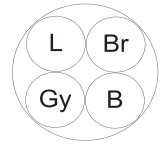
ARRANGEMENT OF CORES FOR CW or CW-S



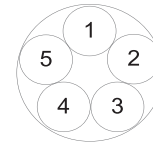
2 CORES



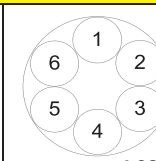
3 CORES



4 CORES



5 CORES



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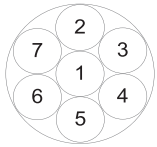
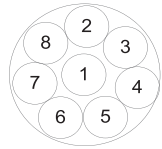
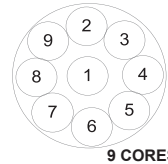


7 CORES



8 CORES



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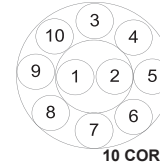

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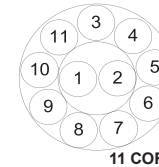

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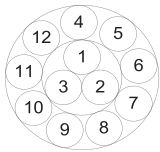
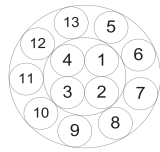
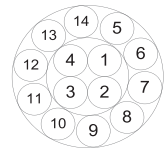


12 CORES



13 CORES



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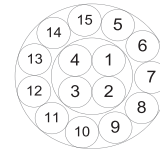

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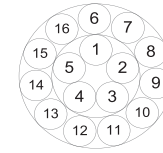
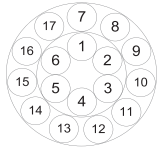
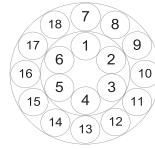


16 CORES



17 CORES



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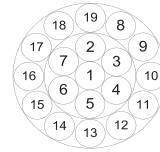

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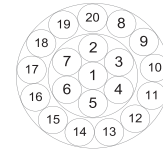

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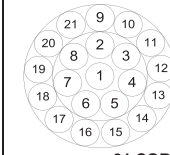

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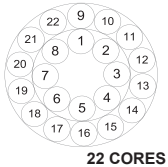

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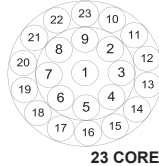

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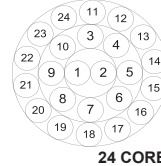

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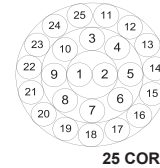

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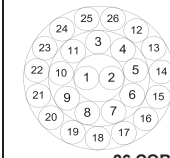
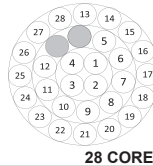


26 CORES

27 CORES



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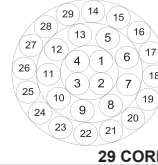

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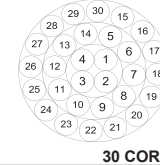

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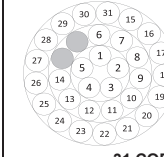


31 CORES

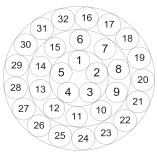
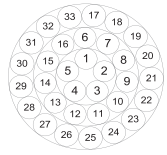
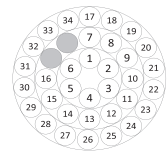
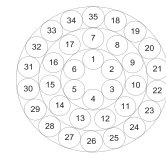
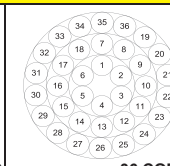
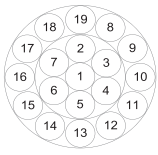
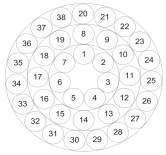
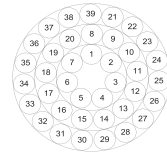
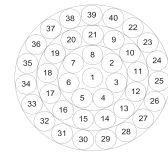
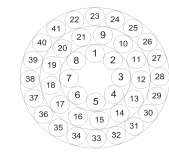
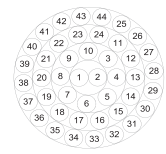
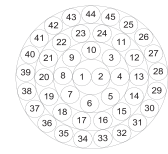
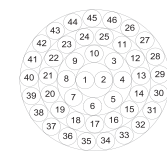
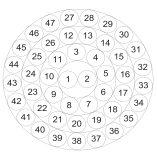
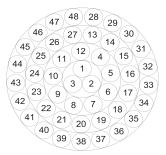
NOTE : Fillers are necessary to fill the cable a substantially circular cross section.
(If the stranded cores be circle enough, fillers shall not be necessary)

B

CVV or CVV-S

600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

ARRANGEMENT OF CORES FOR CW or CW-S

 32 CORES	 33 CORES	 34 CORES	 35 CORES	 36 CORES
 37 CORES	 38 CORES	 39 CORES	 40 CORES	 41 CORES
 42 CORES	 43 CORES	 44 CORES	 45 CORES	 46 CORES
 47 CORES	 48 CORES			

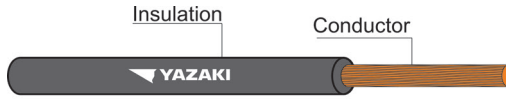
NOTE : Fillers are necessary to fill the cable a substantially circular cross section.
(If the stranded cores be circle enough, fillers shall not be necessary)

B

T-AV

60°C LOW VOLTAGE FLEXIBLE CONDUCTOR PVC INSULATED FOR AUTOMOBILE

TIS 118-2522



CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC)

Insulation color : Black

TECHNICAL DATA

Classification : Maximum conductor temperature 60°C

AC Testing voltage : 1,000 Volts

Reference standard : TIS 118-2522

Remark :
Nowadays the wires are produced according to two kinds of Standard. But such the Ministerial Regulations shall come into force upon their publication in Government Gazette, the production must be in the way of THAI INDUSTRIAL STANDARD.

APPLICATION

For Automobile

B

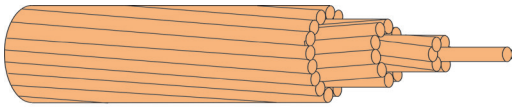
Nominal cross sectional area (mm^2)	Number and diameter of wires (No./mm)	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Continuous current rating in free airat 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
0.5	16/0.20	0.95	0.6	2.2	37.1	11	9	100/C
0.5	7/0.30	0.95	0.6	2.2	37.1	11	9	100/C
0.75	24/0.20	1.15	0.6	2.4	24.7	14	11	100/C
0.85	12/0.30	1.20	0.6	2.4	22.0	15	12	100/C
1	32/0.20	1.30	0.6	2.6	18.5	16	14	100/C
1.25	40/0.20	1.50	0.6	2.7	14.8	19	17	100/C
1.25	18/0.30	1.50	0.6	2.7	14.7	19	17	100/C
1.5	30/0.25	1.60	0.6	2.8	12.7	20	19	100/C
2	28/0.30	1.90	0.6	3.1	9.42	25	24	100/C
2.5	50/0.25	2.10	0.7	3.5	7.60	28	30	100/C
3	44/0.30	2.30	0.7	3.7	6.00	32	37	100/C
4	56/0.30	2.60	0.8	4.2	4.71	38	47	100/C
5	70/0.30	3.0	0.8	4.6	3.77	44	57	100/C
6	84/0.30	3.2	0.9	5.0	3.14	49	69	100/C
8	63/0.40	3.7	0.9	5.5	2.31	59	88	100/C
10	84/0.40	4.2	1.1	6.4	1.82	69	114	100/C
16	126/0.40	5.8	1.1	8.0	1.16	95	173	100/C
25	196/0.60	7.0	1.4	9.8	0.770	123	261	100/C
35	280/0.40	8.5	1.4	11.3	0.524	158	366	100/C
50	399/0.40	10.9	1.6	14.1	0.357	207	537	500/D
70	361/0.50	12.6	2.0	16.6	0.268	250	727	500/D
95	475/0.50	14.1	2.0	18.1	0.193	305	971	500/D

C : Packing in Coil
D : Packing in Drum

FHC

HARD DRAWN COPPER STRANDED CONDUCTOR

TIS 64-2517



CABLE STRUCTURE

Conductor : Hard drawn copper wires, concentric stranded conductor

TECHNICAL DATA

Reference standard : TIS 64-2517

APPLICATION

For grounding wire

Nominal cross sectional area (mm²)	Number and diameter of wires (No./mm)	Conductor diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Breaking strength (kgf)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
10	7/1.35	4.05	1.80548	438	90	90	2000/D
16	7/1.70	5.10	1.13857	694	125	143	2000/D
25	7/2.14	6.42	0.71851	1,076	160	226	2000/D
35	7/2.52	7.56	0.51815	1,459	200	314	2000/D
50	7/3.02	9.06	0.35896	2,095	250	451	2000/D
50	19/1.78	8.90	0.38252	2,021	250	427	2000/D
70	19/2.14	10.70	0.26466	2,921	310	617	2000/D
95	19/2.52	12.60	0.19183	3,961	380	855	2000/D
120	19/2.85	14.25	0.14922	5,067	440	1094	1000/D
150	37/2.25	15.75	0.12384	6,289	510	1330	1000/D
185	37/2.52	17.64	0.09813	7,713	585	1668	1000/D
240	61/2.25	20.25	0.07528	10,369	700	2205	500/D
300	61/2.52	22.68	0.06002	12,717	800	2766	500/D
400	61/2.85	25.65	0.04692	16,266	900	3538	500/D
500	61/3.20	28.80	0.03703	20,506	1110	4460	500/D

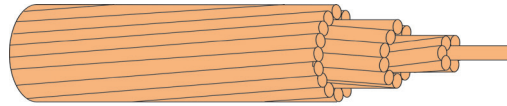
C: Packing in Coil
D: Packing in Drum

B

FAC

ANNEALED COPPER STRANDED CONDUCTOR

IEC 60228



CABLE STRUCTURE

Conductor : Annealed copper wires, concentric stranded conductor

TECHNICAL DATA

Reference standard : IEC 60228 (Same as TIS 2427-2552)

B

APPLICATION

Conductor for insulated cables and wires, grounded electrical system.

Nominal cross sectional area (mm^2)	Conductor type	Number and diameter of wires (No./mm)	Conductor diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Cable weight approx. (kg/km)	Standard Length (m)
1	Non-compacted	7/0.43	1.29	18.1	9	2000/D
1.5	Non-compacted	7/0.53	1.59	12.1	14	2000/D
2.5	Non-compacted	7/0.67	2.01	7.41	22	2000/D
4	Non-compacted	7/0.85	2.55	4.61	36	2000/D
6	Non-compacted	7/1.04	3.12	3.08	55	2000/D
10	Non-compacted	7/1.33	4.10	1.83	90	2000/D
16	Non-compacted	7/1.70	5.10	1.15	150	2000/D
25	Non-compacted	7/2.14	6.26	0.727	220	2000/D
35	Non-compacted	19/1.53	7.65	0.524	320	2000/D
50	Non-compacted	19/1.75	8.73	0.387	410	2000/D
70	Non-compacted	19/2.14	10.70	0.268	620	2000/D
95	Non-compacted	19/2.52	12.60	0.193	850	2000/D
120	Non-compacted	37/2.03	14.21	0.153	1080	1000/D
150	Non-compacted	37/2.25	15.75	0.124	1330	1000/D
185	Non-compacted	37/2.52	17.64	0.0991	1670	1000/D
240	Non-compacted	61/2.25	20.25	0.0754	2200	500/D
300	Non-compacted	61/2.52	22.68	0.0601	2750	500/D
400	Non-compacted	61/2.85	25.65	0.0470	3520	500/D
500	Non-compacted	61/3.20	28.80	0.0366	4440	500/D

D : Packing in Drum

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