**CABLE STRUCTURE**

Conductor : Solid and stranded annealed copper wire
: Sizes 1.5 mm² up to 400 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

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

Testing voltage : 2,500 Volts

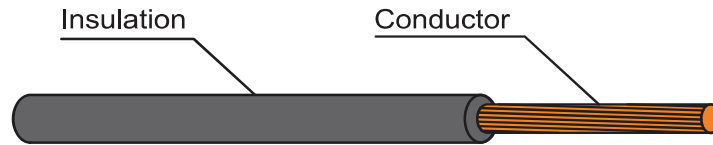
Reference standard : TIS 11 Part 3-2553, Table 1

APPLICATION

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

Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter		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)	Cable weight approx. (kg/km)	Standard Length (m)
			Minimum (mm)	Maximum (mm)					
1.5	Solid	0.7	2.6	3.2	12.1	0.011	21	21	100/C
1.5	Stranded	0.7	2.7	3.3	12.1	0.010	21	22	100/C
2.5	Solid	0.8	3.2	3.9	7.41	0.010	28	32	100/C
2.5	Stranded	0.8	3.3	4.0	7.41	0.009	28	35	100/C
4	Solid	0.8	3.6	4.4	4.61	0.0085	37	47	100/C
4	Stranded	0.8	3.8	4.6	4.61	0.0077	37	50	100/C
6	Solid	0.8	4.1	5.0	3.08	0.0070	49	65	100/C
10	Solid	1.0	5.3	6.4	1.83	0.0070	68	110	100/C
300	Stranded	2.4	24.5	29.6	0.0601	0.0030	628	3,100	500/D
400	Stranded	2.6	27.5	33.2	0.0470	0.0028	736	3,900	500/D

C : Packing in Coil
D : Packing in Drum



CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire
: Sizes 1.5 mm² up to 400 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 3-2553, Table 1

APPLICATION

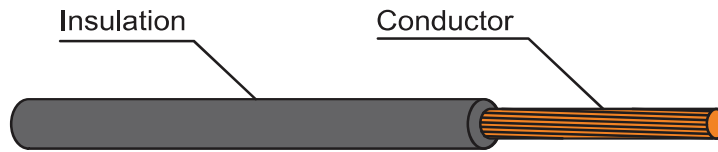
Building wiring for installation on insulator or in raceway dry location.

B

Nominal cross sectional area (mm ²)	Conductor type	A.C.Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
1.5	Solid	14.4777	0.5259	0.1652	14.4786
1.5	Stranded	14.4777	0.5276	0.1657	14.4786
2.5	Solid	8.8661	0.5121	0.1609	8.8675
2.5	Stranded	8.8661	0.5202	0.1634	8.8676
4	Solid	5.5159	0.4917	0.1545	5.5180
4	Stranded	5.5159	0.4929	0.1548	5.5181
6	Solid	3.6852	0.4742	0.1490	3.6883
10	Solid	2.1896	0.4694	0.1475	2.1946
300	Stranded	0.0734	0.4177	0.1312	0.1503
400	Stranded	0.0581	0.4160	0.1307	0.1430

450/750V 70°C STRANDED CONDUCTOR PVC INSULATED SUPER SOFT SINGLE CORE

SUPER SOFT
YK
SERIES
CABLE

 TIS 11 Part 3-2553
**CABLE STRUCTURE**

Conductor : Stranded annealed copper wire
: Sizes 6 mm² up to 185 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

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

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.

Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter		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)	Cable weight approx. (kg/km)	Standard Length (m)	Standard Length	
			Minimum (mm)	Maximum (mm)							
6	Non-Compacted	0.8	4.3	5.2	3.08	0.0065	49	70	100/C	1000	2000
10	Non-Compacted	1.0	5.6	6.7	1.83	0.0065	68	120	100/C	1000	2000
16	Compacted	1.0	6.4	7.8	1.15	0.0050	91	180	100/C	1000	2000
25	Compacted	1.2	8.1	9.7	0.727	0.0050	122	280	100/C	1000	2000
35	Compacted	1.2	9.0	10.9	0.524	0.0043	151	370	100/C	1000	2000
50	Compacted	1.4	10.6	12.8	0.387	0.0043	184	500	500/D	1000	2000
70	Compacted	1.4	12.1	14.6	0.263	0.0035	234	700	500/D	1000	2000
95	Compacted	1.6	14.1	17.1	0.193	0.0035	292	1000	500/D	1000	2000
120	Compacted	1.6	15.6	18.8	0.153	0.0032	341	1200	500/D	1000	2000
150	Compacted	1.8	17.3	20.9	0.124	0.0032	391	1500	500/D	1000	2000
185	Compacted	2.0	19.3	23.3	0.0991	0.0032	454	1900	500/D	1000	2000
240	Compacted	2.2	22.0	26.6	0.0754	0.0032	543	2500	500/D	1000	2000

C : Packing in Coil

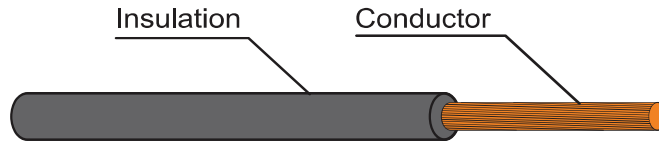
D : Packing in Drum

Nominal cross sectional area (mm ²)	Conductor type	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
6	Non-Compacted	3.6852	0.5606	0.1761	3.6894
10	Non-Compacted	2.1896	0.5219	0.1639	2.1958
16	Compacted	1.3776	0.4642	0.1458	1.3838
25	Compacted	0.8700	0.4594	0.1443	0.8819
35	Compacted	0.6271	0.4496	0.1413	0.6428
50	Compacted	0.4633	0.4477	0.1407	0.4841
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	0.2279
150	Compacted	0.1491	0.4292	0.1348	0.2010
185	Compacted	0.1194	0.4281	0.1345	0.1799
240	Compacted	0.0914	0.4257	0.1337	0.1620

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
: Sizes 1.5 mm² up to 240 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

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

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.

B

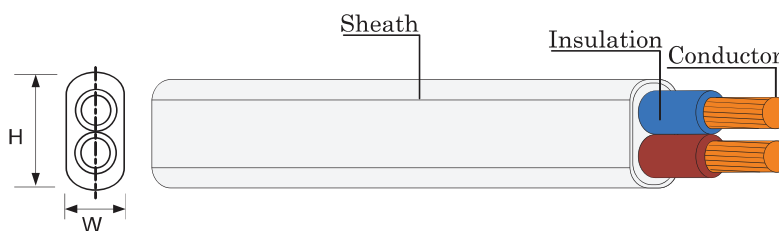
Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air maximum (40 °C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
			Minimum (mm)	Maximum (mm)					
1.5	Flexible	0.7	2.8	3.4	13.3	0.010	16	24	100/C
2.5	Flexible	0.8	3.4	4.1	7.98	0.009	25	37	100/C
4	Flexible	0.8	3.9	4.8	4.95	0.0070	30	54	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	185	100/C
25	Flexible	1.2	8.4	10.2	0.780	0.0044	97	285	100/C
35	Flexible	1.2	9.7	11.7	0.554	0.0038	140	400	100/C
50	Flexible	1.4	11.5	13.9	0.386	0.0037	175	555	500/D
70	Flexible	1.4	13.2	16.0	0.272	0.0032	216	765	500/D
95	Flexible	1.6	15.1	18.2	0.206	0.0032	258	1,000	500/D
120	Flexible	1.6	16.7	20.2	0.161	0.0029	302	1,300	500/D
150	Flexible	1.8	18.6	22.5	0.129	0.0029	347	1,600	500/D
185	Flexible	2.0	20.6	24.9	0.106	0.0029	394	1,900	500/D
240	Flexible	2.2	23.5	28.4	0.0801	0.0028	471	2,500	500/D

Nominal cross sectional area (mm ²)	A.C.Resistance	Inductance	Reactance	Impedance
	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/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	0.4531	0.1423	2.2898
16	1.4478	0.4437	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

C : Packing in Coil
D : Packing in Drum

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 stranded annealed copper

Insulation : Polyvinyl chloride (PVC/C)

Core identification
2 Cores : Blue and 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

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 101-2559 Table 1

APPLICATION

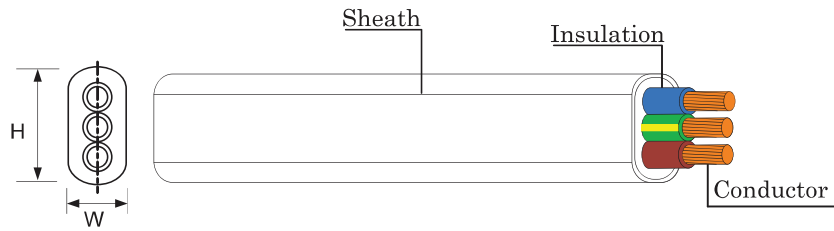
Building wiring for surface or above ceiling wiring or direct embeded in plaster.

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
					W X H Minimum (mm)	W X H Maximum (mm)					
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	Stranded	0.8	1.1	5.6 x 9.6	7.2 x 11.5	4.61	0.0077	32	150	100/C
	6	Stranded	0.8	1.1	6.4 x 10.5	8.0 x 13.0	3.08	0.0065	41	200	100/C
	10	Stranded	1.0	1.2	7.8 x 13.0	9.6 x 16.0	1.83	0.0065	56	310	100/C
	16	Stranded	1.0	1.3	9.0 x 15.5	11.0 x 18.5	1.15	0.0052	74	450	100/C

B

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 stranded annealed copper

Insulation : Polyvinyl chloride (PVC/C)

Core identification
2 Cores + Ground : Blue, Brown and 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

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 101-2559 Table 1

APPLICATION

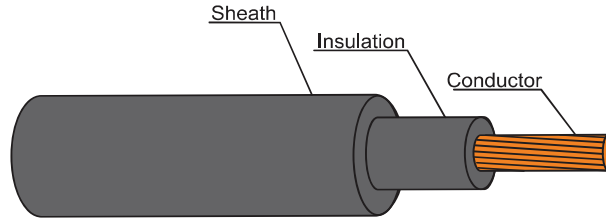
Building wiring for surface or above ceiling wiring or direct embedded in plaster.

B

Number of cores	Nominal cross sectional area		Conductor type	Insulation thickness nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum		Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
	Phase (mm ²)	Ground (mm ²)				W x H Minimum (mm)	W x H Maximum (mm)	Phase (Ω/km)	Ground (Ω/km)				
2	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	Stranded	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	Stranded	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	Stranded	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	Stranded	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

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



 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper

Insulation : Polyvinyl chloride (PVC/C)

Core identification Single-cores : 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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 3

APPLICATION

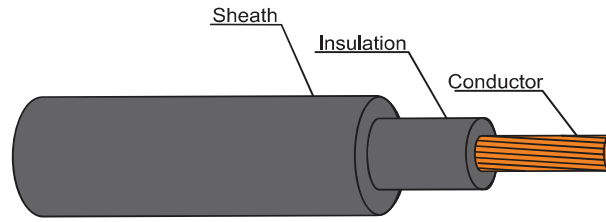
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of core	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	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 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)
								Spaced 	Touching 	Trefoil 			
1	1	Solid	1.5	1.8	8.6	18.1	0.0207	19	16	15	21	80	100/C
	1	Stranded	1.5	1.8	8.8	18.1	0.0200	19	16	15	21	80	100/C
	1.5	Solid	1.5	1.8	9.0	12.1	0.0184	24	19	19	26	85	100/C
	1.5	Stranded	1.5	1.8	9.2	12.1	0.0175	24	19	19	26	90	100/C
	2.5	Solid	1.5	1.8	9.4	7.41	0.0157	32	24	26	35	100	100/C
	2.5	Stranded	1.5	1.8	9.8	7.41	0.0146	32	24	26	35	110	100/C
	4	Solid	1.5	1.8	10.0	4.61	0.0135	42	33	34	45	120	100/C
	4	Stranded	1.5	1.8	10.5	4.61	0.0124	42	33	34	45	130	100/C
	300	Stranded	2.5	2.2	35.0	0.0601	0.0032	617	511	488	507	3,400	500/D
	400	Stranded	2.7	2.2	38.5	0.0470	0.0030	741	599	571	577	4,300	500/D
	500	Stranded	3.1	2.4	43.0	0.0366	0.0031	854	686	652	654	5,400	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

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



 **TIS 11 Part 101-2559**

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper

Insulation : Polyvinyl chloride (PVC/C)

Core identification Single-cores : 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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 3

APPLICATION

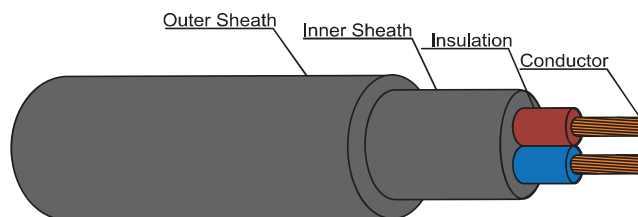
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

B

Number of core	Nominal cross sectional area (mm ²)	Conductor type	A.C.Resistance			Inductance			Reactance			Impedance		
			R (Ω/km)			L (mH/km)			XL (Ω/km)			Z (Ω/km)		
			Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1	Solid	21.6567	21.6567	21.6567	0.7840	0.6454	0.5991	0.2463	0.2027	0.1882	21.6581	21.6576	21.6575
	1	Stranded	21.6567	21.6567	21.6567	0.7740	0.6353	0.5891	0.2431	0.1996	0.1851	21.6580	21.6576	21.6574
	1.5	Solid	14.4777	14.4777	14.4777	0.7485	0.6099	0.5637	0.2352	0.1916	0.1771	14.4796	14.4789	14.4787
	1.5	Stranded	14.4777	14.4777	14.4777	0.7388	0.6001	0.5539	0.2321	0.1885	0.1740	14.4795	14.4789	14.4787
	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
	2.5	Stranded	8.8661	8.8661	8.8661	0.7025	0.5639	0.5176	0.2207	0.1771	0.1626	8.8688	8.8678	8.8676
	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
	4	Stranded	5.5159	5.5159	5.5159	0.6649	0.5263	0.4801	0.2089	0.1653	0.1508	5.5198	5.5184	5.5179
	300	Stranded	0.0733	0.0740	0.0745	0.4517	0.3131	0.2668	0.1419	0.0984	0.0838	0.1597	0.1231	0.1122
	400	Stranded	0.0580	0.0589	0.0596	0.4465	0.3079	0.2617	0.1403	0.0967	0.0822	0.1518	0.1132	0.1015
	500	Stranded	0.0460	0.0471	0.0480	0.4460	0.3074	0.2612	0.1401	0.0966	0.0820	0.1475	0.1074	0.0951

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

 **TIS 11 Part 101-2559**



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 2 Cores : Blue, Brown

Inner sheath : Black polyvinyl chloride (PVC)

Sheath : Black polyvinyl chloride

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750

Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 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	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 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	Solid	0.8	0.8	1.8	12.0	18.1	0.0141	15	21	170	100/C
	1	Stranded	0.8	0.8	1.8	12.5	18.1	0.0135	15	21	170	100/C
	1.5	Solid	0.8	0.8	1.8	12.5	12.1	0.0123	19	27	180	100/C
	1.5	Stranded	0.8	0.8	1.8	13.0	12.1	0.0116	19	27	200	100/C
	2.5	Solid	0.8	0.8	1.8	13.5	7.41	0.0102	25	35	220	100/C
	2.5	Stranded	0.8	0.8	1.8	14.0	7.41	0.0093	25	35	240	100/C
	4	Solid	0.9	0.8	1.8	15.0	4.61	0.0094	33	47	290	100/C
	4	Stranded	0.9	0.8	1.8	15.5	4.61	0.0085	33	47	310	100/C
	95	Stranded	1.7	1.5	2.2	42.5	0.193	0.0038	245	288	3300	500/D
	120	Stranded	1.7	1.5	2.4	46.5	0.153	0.0034	285	329	4000	500/D
	150	Stranded	1.9	1.8	2.6	52.0	0.124	0.0034	325	368	4900	500/D
	185	Stranded	2.1	1.8	2.8	57.0	0.0991	0.0034	374	417	6000	500/D
	240	Stranded	2.3	2.0	3.0	64.0	0.0754	0.0033	440	481	8000	300/D
	300	Stranded	2.5	2.0	3.2	70.5	0.0601	0.0032	505	541	9500	300/D

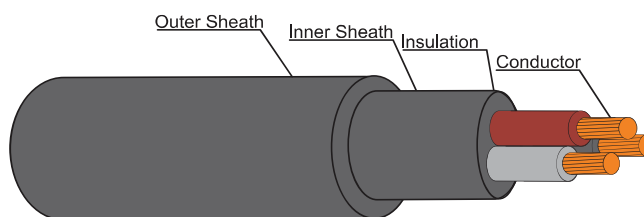
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

C : Packing in coil
D : Packing in drum

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	A.C. Resistance	Inductance	Reactance	Impedance
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
2	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Stranded	21.7000	0.3651	0.1147	21.7000
	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
	95	Stranded	0.2317	0.2480	0.0779	0.2444
	120	Stranded	0.1840	0.2409	0.0757	0.1990
	150	Stranded	0.1495	0.2402	0.0755	0.1675
	185	Stranded	0.1201	0.2401	0.0754	0.1418
	240	Stranded	0.0922	0.2361	0.0742	0.1183
	300	Stranded	0.0744	0.2343	0.0736	0.1047

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

 TIS 11 Part 101-2559



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 3 Cores : Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

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

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

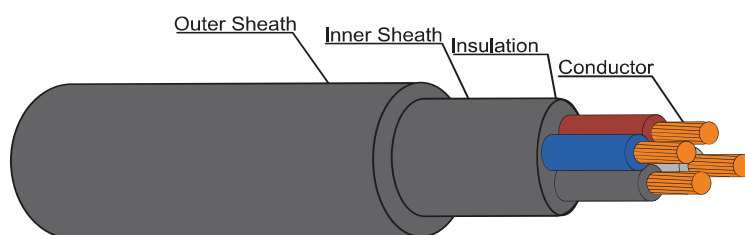
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous 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	Solid	0.8	0.8	1.8	12.5	18.1	0.0141	13	18	180	100/C
	1	Stranded	0.8	0.8	1.8	13.0	18.1	0.0135	13	18	190	100/C
	1.5	Solid	0.8	0.8	1.8	13.0	12.1	0.0123	16	22	210	100/C
	1.5	Stranded	0.8	0.8	1.8	13.5	12.1	0.0116	16	22	220	100/C
	2.5	Solid	0.8	0.8	1.8	14.0	7.41	0.0102	22	30	260	100/C
	2.5	Stranded	0.8	0.8	1.8	15.0	7.41	0.0093	22	30	270	100/C
	4	Solid	0.9	0.8	1.8	15.5	4.61	0.0094	30	39	34	100/C
	4	Stranded	0.9	0.8	1.8	16.5	4.61	0.0085	30	39	360	100/C
	95	Stranded	1.7	1.5	2.4	46.0	0.193	0.0038	207	267	4200	500/D
	120	Stranded	1.7	1.8	2.6	50.5	0.153	0.0034	240	304	5000	500/D
	150	Stranded	1.9	1.8	2.8	56.0	0.124	0.0034	278	342	6500	500/D
	185	Stranded	2.1	2.0	3.0	61.5	0.0991	0.0034	317	386	8000	300/D
	240	Stranded	2.3	2.0	3.2	69.0	0.0754	0.0033	374	448	10000	300/D
	300	Stranded	2.5	2.2	3.4	76.0	0.0601	0.0032	432	507	12500	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

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)
3	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Stranded	21.7000	0.3651	0.1147	21.7000
	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
	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

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



 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire
: Multi-core : Sizes 50 mm² up to 300 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification 4 Cores : Blue, Brown, Black, Grey

Inner sheath : Black polyvinyl chloride (PVC)

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

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

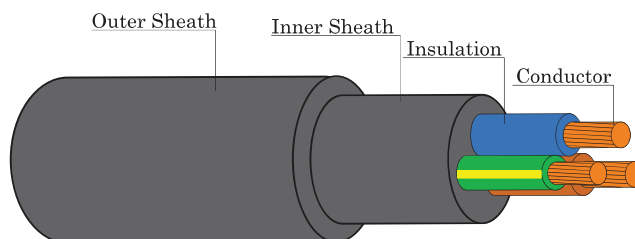
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MQ-km)	Continuous 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)
4	1	Solid	0.8	0.8	1.8	13.5	18.1	0.0141	13	18	210	100/C
	1	Stranded	0.8	0.8	1.8	14.0	18.1	0.0135	13	18	220	100/C
	1.5	Solid	0.8	0.8	1.8	14.0	12.1	0.0123	16	22	240	100/C
	1.5	Stranded	0.8	0.8	1.8	14.5	12.1	0.0116	16	22	260	100/C
	2.5	Solid	0.8	0.8	1.8	15.0	7.41	0.0102	22	30	300	100/C
	2.5	Stranded	0.8	0.8	1.8	16.0	7.41	0.0093	22	30	320	100/C
	4	Solid	0.9	0.8	1.8	17.0	4.61	0.0094	30	39	400	100/C
	4	Stranded	0.9	0.8	1.8	17.5	4.61	0.0085	30	39	430	100/C
	95	Stranded	1.7	1.8	2.6	51.5	0.193	0.0038	207	267	5500	500/D
	120	Stranded	1.7	1.8	2.8	56.0	0.153	0.0034	240	304	6500	500/D
	150	Stranded	1.9	2.0	3.0	62.0	0.124	0.0034	278	342	8000	300/D
	185	Stranded	2.1	2.0	3.2	68.0	0.0991	0.0034	317	386	10000	300/D
	240	Stranded	2.3	2.2	3.4	76.5	0.0754	0.0033	374	448	13000	200/D
	300	Stranded	2.5	2.2	3.8	85.0	0.0601	0.0032	432	507	16000	200/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

C : Packing in coil
D : Packing in drum

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	A.C. Resistance	Inductance	Reactance	Impedance
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
4	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Stranded	21.7000	0.3651	0.1147	21.7000
	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
	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

450/750 V 70°C 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)

Core identification : 2 Cores + Ground : Blue, Brown, + Green/Yellow

Inner Sheath : Black polyvinyl chloride (PVC)

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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 5

APPLICATION

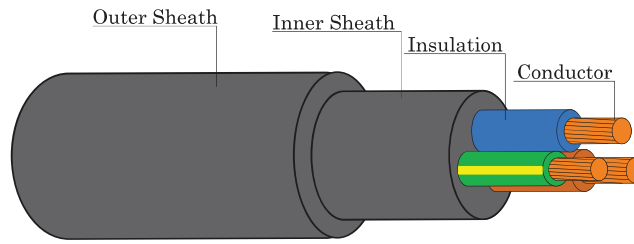
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

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Number of cores	Conductor				Insulation thickness nominal	Inner Sheath thickness approx.	Outer Sheath thickness nominal	Overall diameter maximum	Conductor resistance maximum at 20°C		Insulation resistance at 70°C minimum	Continuous current rating maximum		Cable weight approx.	Standard length per drum
	Nominal cross section area		Type of Conductor						Phase	Ground		on cable Ladder at 40°C	direct burial in ground at 30°C		
	Phase	Ground	Phase	Ground											
	(mm ²)	(mm ²)							(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ·km)
2+G	1	1	Solid		0.8	0.8	1.8	13.0	18.1	18.1	0.0141	15	21	180	500
	1	1	Stranded		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	210	500
	1.5	1.5	Stranded		0.8	0.8	1.8	14.0	12.1	12.1	0.0116	19	27	220	500
	2.5	2.5	Solid		0.8	0.8	1.8	14.5	7.41	7.41	0.0102	25	35	260	500
	2.5	2.5	Stranded		0.8	0.8	1.8	15.0	7.41	7.41	0.0093	25	35	270	500
	4	4	Solid		0.9	0.8	1.8	16.0	4.61	4.61	0.0094	33	47	340	500
	4	4	Stranded		0.9	0.8	1.8	16.5	4.61	4.61	0.0085	33	47	360	500
	6	6	Stranded		0.9	0.8	1.8	18.0	3.08	3.08	0.0073	43	60	450	500
	10	10	Stranded		1.1	0.8	1.8	21.0	1.83	1.83	0.0069	60	81	650	500
	16	16	Stranded		1.1	0.8	2.0	23.5	1.15	1.15	0.0057	80	105	900	500
	25	16	Stranded		1.3	1.2	2.0	28.0	0.727	0.727	0.0054	108	136	1200	500
	35	16	Stranded		1.3	1.2	2.0	30.0	0.524	0.524	0.0047	132	165	1500	500
	50	25	Stranded		1.5	1.2	2.2	34.0	0.387	0.387	0.0046	160	195	2000	500
	70	35	Stranded		1.5	1.5	2.2	38.5	0.268	0.268	0.0039	200	239	2700	500
	95	50	Stranded		1.7	1.5	2.2	43.5	0.193	0.193	0.0038	245	288	3600	500
	120	70	Stranded		1.7	1.5	2.4	47.5	0.153	0.153	0.0034	285	329	4500	500
	150	95	Stranded		1.9	1.8	2.6	53.0	0.124	0.124	0.0034	325	368	5500	500
	185	95	Stranded		2.1	1.8	2.8	57.5	0.0991	0.0991	0.0034	374	417	6500	500
	240	120	Stranded		2.3	2.0	3.0	64.5	0.0754	0.0754	0.0033	440	481	8500	500
	300	150	Stranded		2.5	2.0	3.2	71.0	0.0601	0.0601	0.0032	505	541	10500	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

450/750 V 70 °C 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)

Core identification 2 Cores + Ground : Blue, Brown + Green/Yellow

Inner Sheath : Black polyvinyl chloride (PVC)

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

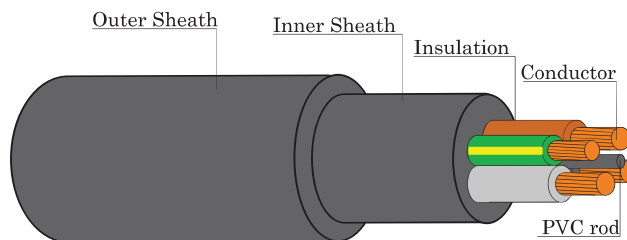
Testing voltage : 2,500 Volts

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 cores	Nominal cross section area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase	Ground	R	L	XL	Z
	(mm ²)	(mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(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	0.2101	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



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 3 Cores + Ground : Brown, Black, Grey + Green/Yellow

Inner Sheath : Black polyvinyl chloride (PVC)

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

Testing voltage : 2,500 Volts

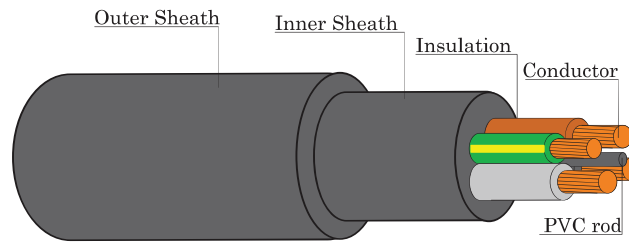
Reference standard : TIS 11 Part 101-2559 Table 5

APPLICATION

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

Number of cores	Conductor				Insulation thickness nominal	Inner Sheath thickness approx.	Outer Sheath thickness nominal	Overall diameter maximum	Conductor resistance		Insulation resistance at 70°C minimum	Continuous current rating		Cable weight approx.	Standard length per drum
	Nominal cross section area		Type of Conductor						maximum at 20°C			maximum			
	Phase	Ground	Phase	Ground					Phase	Ground	on cable Ladder at 40°C	direct burial in ground at 30°C			
	(mm ²)	(mm ²)							(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	Stranded		0.8	0.8	1.8	14.0	18.1	18.1	0.0135	13	18	220	500
	1.5	1.5	Solid		0.8	0.8	1.8	14.0	12.1	12.1	0.0123	16	22	240	500
	1.5	1.5	Stranded		0.8	0.8	1.8	15.0	12.1	12.1	0.0116	16	22	260	500
	2.5	2.5	Solid		0.8	0.8	1.8	15.5	7.41	7.41	0.0102	22	30	300	500
	2.5	2.5	Stranded		0.8	0.8	1.8	16.0	7.41	7.41	0.0093	22	30	320	500
	4	4	Solid		0.9	0.8	1.8	17.0	4.61	4.61	0.0094	30	39	400	500
	4	4	Stranded		0.9	0.8	1.8	18.0	4.61	4.61	0.0085	30	39	430	500
	6	6	Stranded		0.9	0.8	1.8	19.0	3.08	3.08	0.0073	37	50	550	500
	10	10	Stranded		1.1	0.8	1.8	22.5	1.83	1.83	0.0069	52	68	800	500
	16	16	Stranded		1.1	1.2	2.0	26.5	1.15	1.15	0.0057	70	87	1200	500
	25	16	Stranded		1.3	1.2	2.0	30.5	0.727	0.727	0.0054	88	128	1600	500
	35	16	Stranded		1.3	1.2	2.0	33.0	0.524	0.524	0.0047	110	154	1900	500
	50	25	Stranded		1.5	1.5	2.2	38.5	0.387	0.387	0.0046	133	181	2600	500
	70	35	Stranded		1.5	1.5	2.2	42.5	0.268	0.268	0.0039	171	223	3500	500
	95	50	Stranded		1.7	1.5	2.4	48.5	0.193	0.193	0.0038	207	267	4700	500
	120	70	Stranded		1.7	1.8	2.6	53.5	0.153	0.153	0.0034	240	304	6000	500
	150	95	Stranded		1.9	1.8	2.8	59.0	0.124	0.124	0.0034	278	342	7500	500
	185	95	Stranded		2.1	2.0	3.0	64.5	0.0991	0.0991	0.0034	317	386	9000	500
	240	120	Stranded		2.3	2.0	3.2	72.0	0.0754	0.0754	0.0033	374	448	11500	300
	300	150	Stranded		2.5	2.2	3.4	79.5	0.0601	0.0601	0.0032	432	507	14000	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



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 3 Cores + Ground : Brown, Black, Grey + Green/Yellow

Inner Sheath : Black polyvinyl chloride (PVC)

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

Testing voltage : 2,500 Volts

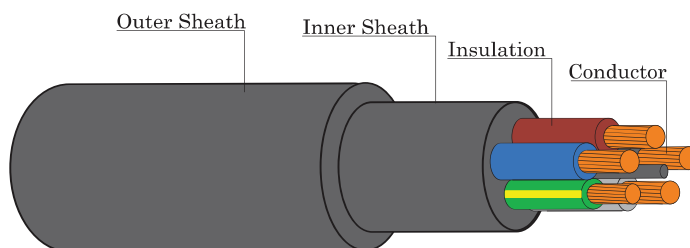
Reference standard : TIS 11 Part 101-2559 Table 5

APPLICATION

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

Number of cores	Nominal cross section area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase	Ground	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
	(mm ²)	(mm ²)				
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

450/750 V 70 °C 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)

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

Inner Sheath : Black polyvinyl chloride (PVC)

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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 5

APPLICATION

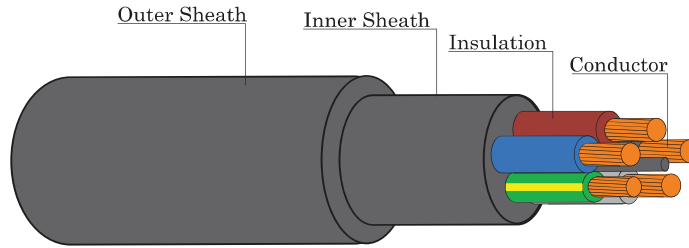
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Conductor				Insulation thickness nominal	Inner Sheath thickness approx.	Outer Sheath thickness nominal	Overall diameter maximum	Conductor resistance maximum at 20°C		Insulation resistance at 70°C minimum	Continuous current rating maximum		Cable weight approx.	Standard length per drum
	Nominal cross section area		Type of Conductor						Phase	Ground		on cable Ladder at 40°C	direct burial in ground at 30°C		
	Phase	Ground	Phase	Ground											
	(mm ²)	(mm ²)							(mm)	(mm)	(mm)	(mm)	(Ω/km)	(Ω/km)	(MΩ-km)
4+G	1	1	Solid		0.8	0.8	1.8	14.5	18.1	18.1	0.0141	13	18	250	500
	1	1	Stranded		0.8	0.8	1.8	15.0	18.1	18.1	0.0135	13	18	260	500
	1.5	1.5	Solid		0.8	0.8	1.8	15.0	12.1	12.1	0.0123	16	22	280	500
	1.5	1.5	Stranded		0.8	0.8	1.8	16.0	12.1	12.1	0.0116	16	22	300	500
	2.5	2.5	Solid		0.8	0.8	1.8	16.5	7.41	7.41	0.0102	22	30	360	500
	2.5	2.5	Stranded		0.8	0.8	1.8	17.0	7.41	7.41	0.0093	22	30	390	500
	4	4	Solid		0.9	0.8	1.8	18.0	4.61	4.61	0.0094	30	39	480	500
	4	4	Stranded		0.9	0.8	1.8	19.0	4.61	4.61	0.0085	30	39	500	500
	6	6	Stranded		0.9	0.8	1.8	20.5	3.08	3.08	0.0073	37	50	650	500
	10	10	Stranded		1.1	0.8	2.0	25.0	1.83	1.83	0.0069	52	68	1000	500
	16	16	Stranded		1.1	1.2	2.0	28.5	1.15	1.15	0.0057	70	87	1400	500
	25	16	Stranded		1.3	1.2	2.0	34.0	0.727	0.727	0.0054	88	128	1900	500
	35	16	Stranded		1.3	1.5	2.2	39.0	0.524	0.524	0.0047	110	154	2500	500
	50	25	Stranded		1.5	1.5	2.2	43.5	0.387	0.387	0.0046	133	181	3300	500
	70	35	Stranded		1.5	1.5	2.4	49.0	0.268	0.268	0.0039	171	223	4500	500
	95	50	Stranded		1.7	1.8	2.6	56.5	0.193	0.193	0.0038	207	267	6000	500
	120	70	Stranded		1.7	1.8	2.8	61.5	0.153	0.153	0.0034	240	304	7500	500
	150	95	Stranded		1.9	2.0	3.0	68.0	0.124	0.124	0.0034	278	342	9500	300
	185	95	Stranded		2.1	2.0	3.2	75.0	0.0991	0.0991	0.0034	317	386	11500	300
	240	120	Stranded		2.3	2.2	3.4	84.5	0.0754	0.0754	0.0033	374	448	14500	300
	300	150	Stranded		2.5	2.2	3.8	93.5	0.0601	0.0601	0.0032	432	507	18000	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

450/750 V 70 °C 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)
Core identification 4 Cores + Ground : Blue, Brown, Black, Grey + Green/Yellow
Inner Sheath : Black polyvinyl chloride (PVC)
Sheath : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

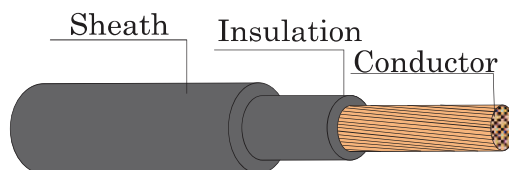
Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts
Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line
Testing voltage : 2,500 Volts
Reference standard : TIS 11 Part 101-2559 Table 5

APPLICATION

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

Number of cores	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)
4+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

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

 TIS 11 Part 101-2559


CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification 1 Cores : 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
: 750 Volts between Line to Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 7

APPLICATION

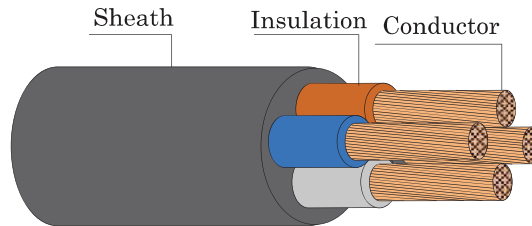
For mobile-electrical equipment used in mines, factories, farm or household appliances. This cable is suitable for use in places where cables come in contact with oils.

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness approx. (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 free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
1	1	Flexible	0.8	1.2	6.2	19.5	0.0127	14	40	100/C
	1.5	Flexible	0.8	1.2	6.6	13.3	0.0111	16	50	100/C
	2.5	Flexible	0.8	1.2	7.4	7.98	0.0092	25	65	100/C
	4	Flexible	0.9	1.4	8.6	4.95	0.0084	30	90	100/C
	6	Flexible	0.9	1.4	9.4	3.30	0.0071	39	120	100/C
	10	Flexible	1.1	1.8	12.0	1.91	0.0068	51	210	100/C
	16	Flexible	1.1	1.8	13.5	1.21	0.0050	73	270	100/C
	25	Flexible	1.3	2.2	16.0	0.780	0.0048	97	410	100/C
	35	Flexible	1.3	2.2	17.5	0.554	0.0041	140	550	500/D

C : Packing in coil

D : Packing in drum

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
1	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
	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

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE
 TIS 11 Part 101-2559

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, 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

Testing voltage : 2,500 Volts

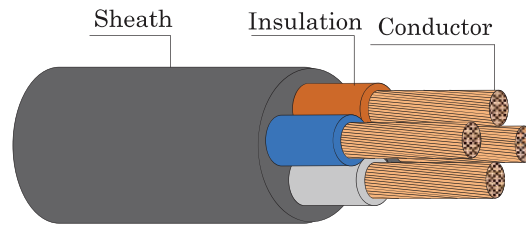
Reference standard : TIS 11 Part 101-2559 Table 7

APPLICATION

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

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness approx. (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 free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
2	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	0.0111	16	130	100/C
	2.5	Flexible	0.8	1.4	12.5	7.98	0.0092	25	170	100/C
	4	Flexible	0.9	1.6	14.5	4.95	0.0084	30	230	100/C
	6	Flexible	0.9	1.6	16.0	3.30	0.0071	39	320	100/C
	10	Flexible	1.1	1.8	20.0	1.91	0.0068	51	500	500/D
	16	Flexible	1.1	2.2	23.0	1.21	0.0050	73	700	500/D
	25	Flexible	1.3	2.4	27.5	0.780	0.0048	97	1000	500/D
3	35	Flexible	1.3	2.6	31.0	0.554	0.0041	140	1400	500/D
	1	Flexible	0.8	1.4	10.5	19.5	0.0127	12	100	100/C
	1.5	Flexible	0.8	1.4	11.5	13.3	0.0111	15	130	100/C
	2.5	Flexible	0.8	1.4	13.0	7.98	0.0092	20	170	100/C
	4	Flexible	0.9	1.6	15.5	4.95	0.0084	26	230	100/C
	6	Flexible	0.9	1.8	17.5	3.30	0.0071	34	320	100/C
	10	Flexible	1.1	2.0	21.5	1.91	0.0068	47	500	500/D
	16	Flexible	1.1	2.4	25.0	1.21	0.0050	63	700	500/D
4	25	Flexible	1.3	2.6	30.0	0.780	0.0048	83	1000	500/D
	35	Flexible	1.3	2.8	33.5	0.554	0.0041	102	1400	500/D
	1	Flexible	0.8	1.6	10.5	19.5	0.0127	12	100	100/C
	1.5	Flexible	0.8	1.6	11.5	13.3	0.0111	15	130	100/C
	2.5	Flexible	0.8	1.6	13.0	7.98	0.0092	20	170	100/C
	4	Flexible	0.9	1.8	15.5	4.95	0.0084	26	230	100/C
	6	Flexible	0.9	2.0	17.5	3.30	0.0071	34	320	100/C
	10	Flexible	1.1	2.2	21.5	1.91	0.0068	47	500	500/D
	16	Flexible	1.1	2.6	25.0	1.21	0.0050	63	700	500/D
	25	Flexible	1.3	2.8	30.0	0.780	0.0048	83	1000	500/D
	35	Flexible	1.3	3.1	33.5	0.554	0.0041	102	1400	500/D

C : Packing in coil
D : Packing in drum

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED, ROUND TYPE
 TIS 11 Part 101-2559

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, 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

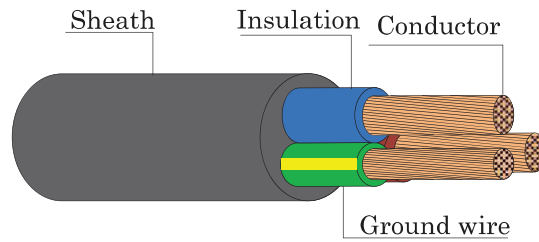
Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 7

APPLICATION

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

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	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
3	35	0.6631	0.2500	0.0785	0.6677
	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
4	25	0.9335	0.2602	0.0817	0.9371
	35	0.6632	0.2500	0.0785	0.6678
	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

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED WITH GROUND, ROUND TYPE
 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/D)

Core identification 2 Cores + Ground : Blue, Brown + 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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 8

APPLICATION

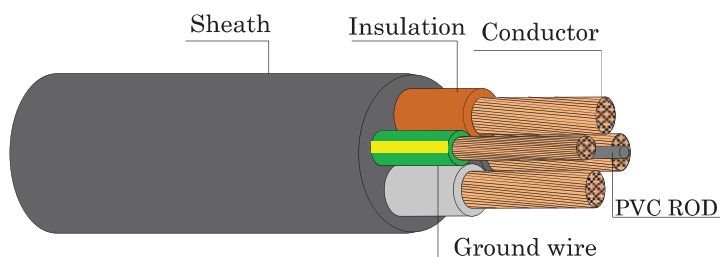
For mobile-electrical equipment used in mines, factories, farm or household appliances. This cable is suitable for use in places where cables come in contact with oils.

Number of cores	Conductor				Insulation thickness nominal	Sheath thickness approx.	Overall diameter maximum	Conductor resistance maximum at 20°C		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	Phase	Ground									
	(mm ²)	(mm ²)											
2+G	1	1	Flexible		0.8	1.2	10.0	19.5	19.5	0.0127	14	120	100/C
	1.5	1.5	Flexible		0.8	1.4	12.0	13.3	13.3	0.0111	16	150	100/C
	2.5	2.5	Flexible		0.8	1.4	13.0	7.98	7.98	0.0092	25	200	100/C
	4	4	Flexible		0.9	1.6	15.5	4.95	4.95	0.0084	30	280	100/C
	6	6	Flexible		0.9	1.8	17.5	3.30	3.30	0.0071	39	400	100/C
	10	10	Flexible		1.1	2.0	21.5	1.91	1.91	0.0068	51	650	500/D
	16	16	Flexible		1.1	2.4	25.0	1.21	1.21	0.0050	73	900	500/D
	25	16	Flexible		1.3	2.6	28.5	0.780	0.780	0.0048	97	1200	500/D
	35	16	Flexible		1.3	2.8	31.5	0.554	0.554	0.0041	140	1500	500/D

C : Packing in coil
D : Packing in drum

Number of cores	Nominal cross section area		A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	Phase	Ground				
	(mm ²)	(mm ²)				
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	9.5500
	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	1.4502
	25	16	0.9334	0.2602	0.0817	0.9370
	35	16	0.6631	0.2500	0.0785	0.6677

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

TIS 11 Part 101-2559

CABLE STRUCTURE
Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification
 3 Cores + Ground : 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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 8

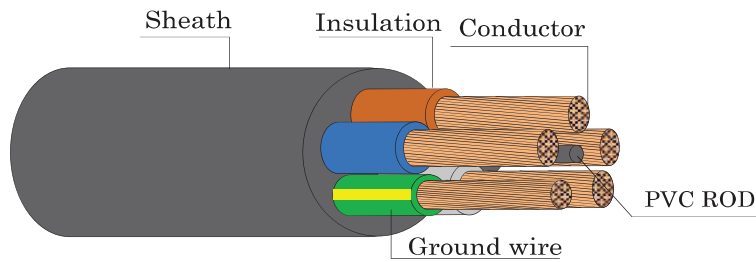
APPLICATION

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

Number of cores	Conductor				Insulation thickness nominal	Sheath thickness approx.	Overall diameter maximum	Conductor resistance maximum at 20°C		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	Phase	Ground									
	(mm ²)	(mm ²)											
3+G	1	1	Flexible	0.8	1.4	11.5	19.5	19.5	0.0127	12	150	100/C	
	1.5	1.5	Flexible	0.8	1.4	12.5	13.3	13.3	0.0111	15	180	100/C	
	2.5	2.5	Flexible	0.8	1.4	14.0	7.98	7.98	0.0092	20	240	100/C	
	4	4	Flexible	0.9	1.8	17.0	4.95	4.95	0.0084	26	360	100/C	
	6	6	Flexible	0.9	2.0	19.5	3.30	3.30	0.0071	34	500	500/D	
	10	10	Flexible	1.1	2.2	24.0	1.91	1.91	0.0068	47	850	500/D	
	16	16	Flexible	1.1	2.6	28.0	1.21	1.21	0.0050	63	1200	500/D	
	25	16	Flexible	1.3	2.8	33.0	0.780	0.780	0.0048	83	1600	500/D	
	35	16	Flexible	1.3	3.1	37.0	0.554	0.554	0.0041	102	2100	500/D	

 C : Packing in coil
 D : Packing in drum

Number of cores	Nominal cross section area		A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
	Phase	Ground				
	(mm ²)	(mm ²)				
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

450/750 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATHED WITH GROUND, ROUND TYPE
 TIS 11 Part 101-2559

CABLE STRUCTURE
Conductor : Flexible annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification
 4 Cores + Ground : 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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 8

APPLICATION

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


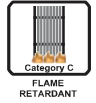
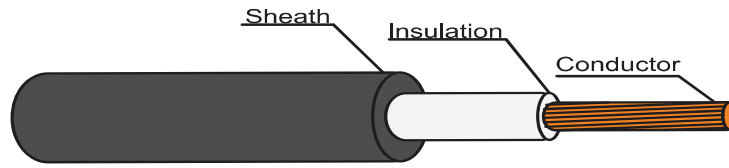
Number of cores	Conductor				Insulation thickness nominal	Sheath thickness approx.	Overall diameter maximum	Conductor resistance maximum at 20°C		Insulation resistance at 70°C minimum	Continuous currnt rating in free air at 40°C maximum	Cable weight approx.	Standard length
	Nominal cross section area		Type of Conductor										
	Phase	Ground	Phase	Ground									
	(mm ²)	(mm ²)											
4+G	1	1	Flexible		0.8	1.6	13.0	19.5	19.5	0.0127	12	190	100/C
	1.5	1.5	Flexible		0.8	1.6	14.0	13.3	13.3	0.0111	15	220	100/C
	2.5	2.5	Flexible		0.8	1.6	15.5	7.98	7.98	0.0092	20	310	100/C
	4	4	Flexible		0.9	1.8	18.5	4.95	4.95	0.0084	26	440	100/C
	6	6	Flexible		0.9	2.0	21.5	3.30	3.30	0.0071	34	600	500/D
	10	10	Flexible		1.1	2.2	26.5	1.91	1.91	0.0068	47	1000	500/D
	16	16	Flexible		1.1	2.6	30.5	1.21	1.21	0.0050	63	1400	500/D
	25	16	Flexible		1.3	2.8	36.5	0.780	0.780	0.0048	83	2000	500/D
	35	16	Flexible		1.3	3.1	41.5	0.554	0.554	0.0041	102	2600	500/D

 C : Packing in coil
 D : Packing in drum

Number of cores	Nominal cross section area		A.C. Resistance	Inductance	Reactance	Impedance
	Phase	Ground	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
	(mm ²)	(mm ²)				
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	9.5500
	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

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

IEC 60502-1

 TIS 2143-2546


CABLE STRUCTURE

Conductor : Non-compacted and compacted round annealed copper**Insulation** : Cross-Linked polyethylene (XLPE)**Core identification** Single-core : 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**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)	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 20°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
								Space  (A)	Touching  (A)	Trefoil  (A)			
1	1.5	Non-Compacted	0.7	1.4	6.3	12.1	2,500	31	24	23	33	50	500/D
	300	Compacted	1.8	1.8	29	0.0601	600	821	670	640	601	3100	500/D
	400	Compacted	2.0	1.9	32	0.0470	600	987	790	749	684	3900	500/D
	500	Compacted	2.2	2.0	36	0.0366	600	1140	908	861	777	5000	500/D
	630	Compacted	2.4	2.2	40	0.0283	550	1298	1064	1014	1229	6500	500/D
	800	Compacted	2.6	2.3	45	0.0221	550	1494	1220	1156	1380	8000	500/D
	1000	Compacted	2.8	2.4	51	0.0176	500	1712	1391	1307	1532	10500	500/D


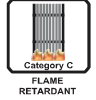
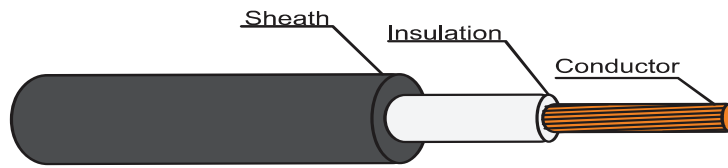
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

D : Packing in drum

Depth of laying (For cable laid direct in ground) 0.3 m

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

IEC 60502-1

 TIS 2143-2546


CABLE STRUCTURE

Conductor : Non-compacted and compacted round annealed copper**Insulation** : Cross-Linked polyethylene (XLPE)**Core identification** Single-core : 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**Testing voltage** : 3,500 Volts**Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1
IEC 60332-3-24 (Cat.C)

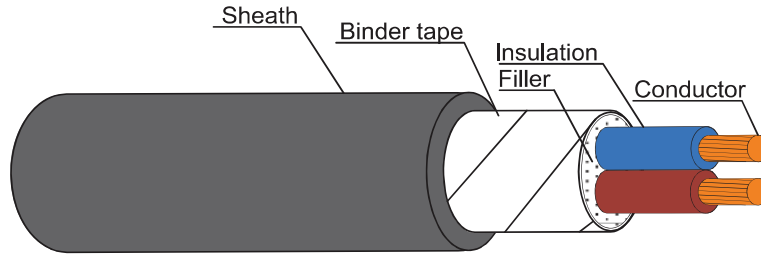
APPLICATION

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


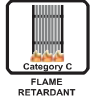
Number of core	Nominal cross sectional area (mm ²)	A.C.Resistance			Inductance			Reactance			Impedance		
		R (Ω/km)			L (mH/km)			XL (Ω/km)			Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.6630	0.5244	0.4782	0.2083	0.1647	0.1502	15.4301	15.4296	15.4294
	300	0.0779	0.0787	0.0792	0.4413	0.3027	0.2565	0.1387	0.0951	0.0806	0.1591	0.1234	0.1130
	400	0.0616	0.0625	0.0632	0.4393	0.3007	0.2545	0.1380	0.0945	0.0800	0.1511	0.1133	0.1019
	500	0.0488	0.0499	0.0509	0.4365	0.2979	0.2517	0.1371	0.0936	0.0791	0.1455	0.1061	0.0940
	630	0.0387	0.0402	0.0414	0.4341	0.2954	0.2492	0.1364	0.0928	0.0783	0.1418	0.1011	0.0886
	800	0.0314	0.0332	0.0346	0.4309	0.2923	0.2461	0.1354	0.0918	0.0773	0.1390	0.0977	0.0847
	1000	0.0263	0.0284	0.0301	0.4265	0.2879	0.2416	0.1340	0.0904	0.0759	0.1366	0.0948	0.0817

B

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



IEC 60502-1

 TIS 2143-2546


CABLE STRUCTURE

Conductor : Non-compacted and compacted round annealed copper**Insulation** : Cross-Linked polyethylene (XLPE)**Core identification**
2 Cores: Blue, Brown**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**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 cores	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Sheath thickness nominal	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	Continuous current rating in ground at 30°C maximum	Cable weight approx.	Standard Length
	(mm ²)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(A)	(A)	(kg/km)	(m)
2	1.5	Non-Compacted	0.7	1.8	11.0	12.1	2,500	27	33	130	500/D
	95	Compacted	1.1	2.0	33	0.193	650	329	350	2200	500/D
	120	Compacted	1.2	2.1	37	0.153	650	381	400	2800	500/D
	150	Compacted	1.4	2.2	41	0.124	700	436	450	3400	500/D
	185	Compacted	1.6	2.3	45	0.0991	700	503	505	4200	500/D
	240	Compacted	1.7	2.5	51	0.0754	650	593	585	5500	500/D
	300	Compacted	1.8	2.7	56	0.0601	600	676	665	7000	500/D
	400	Compacted	2.0	2.9	63	0.0470	600	777	750	8500	500/D

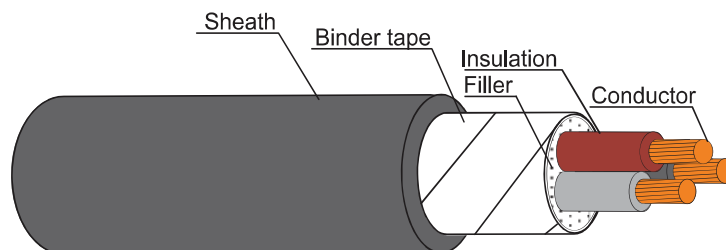
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

D : Packing in Drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area	A.C.Resistance	Inductance	Reactance	Impedance
	(mm ²)	R	L	XL	Z
	(mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	95	0.2468	0.2331	0.0732	0.2575
	120	0.1960	0.2315	0.0727	0.2091
	150	0.1593	0.2302	0.0723	0.1749
	185	0.1278	0.2338	0.0734	0.1474
	240	0.0981	0.2295	0.0721	0.1217
	300	0.0791	0.2260	0.0710	0.1063
	400	0.0630	0.2259	0.0710	0.0949

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



IEC 60502-1

 TIS 2143-2546


CABLE STRUCTURE

Conductor : Non-compacted and compacted round annealed copper**Insulation** : Cross-Linked polyethylene (XLPE)**Core identification**

3 Cores: Brown, Black, Grey

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**Testing volt** : 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 cores	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 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 (m)
3	1.5	Non-Compacted	0.7	1.8	11.5	12.1	2,500	22	28	150	500/D
	95	Compacted	1.1	2.0	36	0.193	650	272	295	3100	500/D
	120	Compacted	1.2	2.1	39	0.153	650	320	335	3900	500/D
	150	Compacted	1.4	2.3	44	0.124	700	366	380	4800	500/D
	185	Compacted	1.6	2.4	49	0.0991	700	422	425	6000	500/D
	240	Compacted	1.7	2.6	55	0.0754	650	498	495	8000	500/D
	300	Compacted	1.8	2.8	61	0.0601	600	567	560	9500	500/D
	400	Compacted	2.0	3.1	68	0.0470	600	652	630	12500	500/D

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

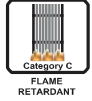
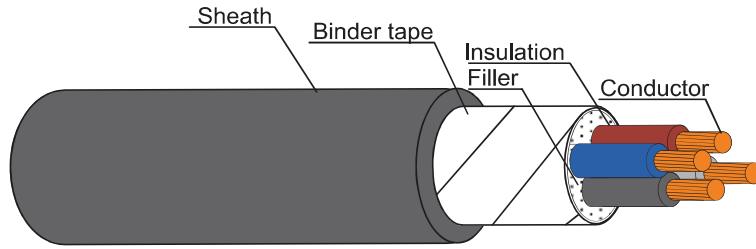
D : Packing in Drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area (mm ²)	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
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2315	0.0727	0.2094
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1282	0.2338	0.0734	0.1478
	240	0.0987	0.2295	0.0721	0.1222
	300	0.0798	0.2260	0.0710	0.1068
	400	0.0639	0.2259	0.0710	0.0955

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

IEC 60502-1

 TIS 2143-2546


CABLE STRUCTURE

Conductor : Non-compacted and compacted round annealed copper**Insulation** : Cross-Linked polyethylene (XLPE)**Core identification**

4 Cores: Blue, Brown, Black, Grey

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**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 cores	Nominal cross sectional area (mm ²)	Number of wires	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)	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)
4	1.5	Non-Compacted	0.7	1.8	12.0	12.1	2,500	22	28	180	500/D
	95	Compacted	1.1	2.0	39	0.193	650	272	295	4000	500/D
	120	Compacted	1.2	2.1	44	0.153	650	320	335	5000	500/D
	150	Compacted	1.4	2.3	49	0.124	700	366	380	6500	500/D
	185	Compacted	1.6	2.4	54	0.0991	700	422	425	8000	500/D
	240	Compacted	1.7	2.6	61	0.0754	650	498	495	10000	500/D
	300	Compacted	1.8	2.8	68	0.0601	600	567	560	12500	500/D
	400	Compacted	2.0	3.1	76	0.0470	600	652	630	16000	500/D

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

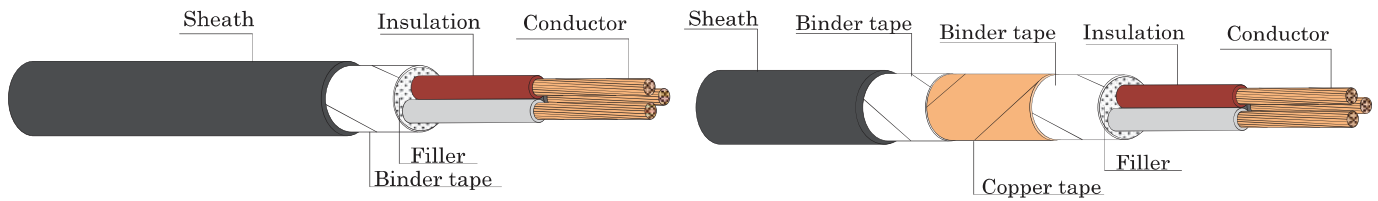
D : Packing in Drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
4	1.5	15.4287	0.3427	0.1077	15.4291
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2315	0.0727	0.2094
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1282	0.2338	0.0734	0.1478
	240	0.0987	0.2295	0.0721	0.1222
	300	0.0798	0.2260	0.0710	0.1068
	400	0.0639	0.2259	0.0710	0.0955

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)**Core identification**

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
throughout the whole length of insulated wires for the purpose of core
identification.

Filler : polypropylene (non-hygroscopic material)**Binder tape and Separator tape** : Spunbond tape**Shield** : Copper tape**Sheath** : Black polyvinyl chloride (PVC)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 600 Volts

Testing voltage : 2,000 Volts**Reference standard** : THAI YAZAKI STANDARD

APPLICATION

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

Number of cores	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Cable weight approx.	Standard Length
	(mm ²)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(kg/km)	(m)
2	0.5	Flexible	0.6	0.9	7.5	39.0	0.0130	49	300/D
	0.75	Flexible	0.6	1.2	8.5	26.0	0.0114	65	300/D
	1	Flexible	0.6	1.2	8.7	19.5	0.0104	75	300/D
	1.5	Flexible	0.6	1.2	9.3	13.3	0.0089	90	300/D
	2.5	Flexible	0.7	1.2	10.5	7.98	0.0081	130	300/D
	4	Flexible	0.8	1.2	12.0	4.95	0.0076	170	300/D
3	6	Flexible	0.8	1.4	14.0	3.30	0.0061	250	300/D
	0.5	Flexible	0.6	1.2	8.5	39.0	0.0130	65	300/D
	0.75	Flexible	0.6	1.2	8.9	26.0	0.0114	80	300/D
	1	Flexible	0.6	1.2	9.1	19.5	0.0104	90	300/D
	1.5	Flexible	0.6	1.2	9.8	13.3	0.0089	110	300/D
	2.5	Flexible	0.7	1.2	11.0	7.98	0.0081	160	300/D
4	4	Flexible	0.8	1.2	13.0	4.95	0.0076	230	300/D
	6	Flexible	0.8	1.4	15.0	3.30	0.0061	330	300/D
	0.5	Flexible	0.6	1.2	9.1	39.0	0.0130	80	300/D
	0.75	Flexible	0.6	1.2	9.6	26.0	0.0114	95	300/D
	1	Flexible	0.6	1.2	9.8	19.5	0.0104	110	300/D
	1.5	Flexible	0.6	1.2	10.5	13.3	0.0089	140	300/D
5	2.5	Flexible	0.7	1.2	12.0	7.98	0.0081	200	300/D
	4	Flexible	0.8	1.4	14.5	4.95	0.0076	300	300/D
	6	Flexible	0.8	1.4	16.5	3.30	0.0061	410	300/D
	0.5	Flexible	0.6	1.2	9.8	39.0	0.0130	90	300/D
	0.75	Flexible	0.6	1.2	10.0	26.0	0.0114	110	300/D
	1	Flexible	0.6	1.2	10.5	19.5	0.0104	130	300/D
5	1.5	Flexible	0.6	1.2	11.5	13.3	0.0089	160	300/D
	2.5	Flexible	0.7	1.4	13.5	7.98	0.0081	250	300/D
	4	Flexible	0.8	1.4	15.5	4.95	0.0076	350	300/D
	6	Flexible	0.8	1.4	18.0	3.30	0.0061	500	300/D

D = Packing in drum

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	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Cable weight approx.	Standard Length
	(mm ²)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(kg/km)	(m)
6	0.5	Flexible	0.6	1.2	10.5	39.0	0.0130	110	300/D
	0.75	Flexible	0.6	1.2	11.0	26.0	0.0114	130	300/D
	1	Flexible	0.6	1.2	11.5	19.5	0.0104	150	300/D
	1.5	Flexible	0.6	1.2	12.0	13.3	0.0089	190	300/D
	2.5	Flexible	0.7	1.4	14.5	7.98	0.0081	290	300/D
	4	Flexible	0.8	1.4	17.0	4.95	0.0076	420	300/D
7	6	Flexible	0.8	1.4	19.5	3.30	0.0061	600	300/D
	0.5	Flexible	0.6	1.2	10.5	39.0	0.0130	110	300/D
	0.75	Flexible	0.6	1.2	11.0	26.0	0.0114	140	300/D
	1	Flexible	0.6	1.2	11.5	19.5	0.0104	160	300/D
	1.5	Flexible	0.6	1.2	12.0	13.3	0.0089	210	300/D
	2.5	Flexible	0.7	1.4	14.5	7.98	0.0081	320	300/D
8	4	Flexible	0.8	1.4	17.0	4.95	0.0076	460	300/D
	6	Flexible	0.8	1.4	19.5	3.30	0.0061	650	300/D
	0.5	Flexible	0.6	1.2	11.0	39.0	0.0130	130	300/D
	0.75	Flexible	0.6	1.2	11.5	26.0	0.0114	160	300/D
	1	Flexible	0.6	1.2	12.0	19.5	0.0104	180	300/D
	1.5	Flexible	0.6	1.4	13.5	13.3	0.0089	240	300/D
9	2.5	Flexible	0.7	1.4	16.0	7.98	0.0081	360	300/D
	4	Flexible	0.8	1.4	18.5	4.95	0.0076	550	300/D
	6	Flexible	0.8	1.4	21.0	3.30	0.0061	750	300/D
	0.5	Flexible	0.6	1.2	12.0	39.0	0.0130	150	300/D
	0.75	Flexible	0.6	1.2	12.5	26.0	0.0114	180	300/D
	1	Flexible	0.6	1.4	13.5	19.5	0.0104	220	300/D
10	1.5	Flexible	0.6	1.4	14.5	13.3	0.0089	270	300/D
	2.5	Flexible	0.7	1.4	17.0	7.98	0.0081	410	300/D
	4	Flexible	0.8	1.4	20.0	4.95	0.0076	600	300/D
	6	Flexible	0.8	1.4	23.0	3.30	0.0061	850	300/D
	0.5	Flexible	0.6	1.2	12.5	39.0	0.0130	150	300/D
	0.75	Flexible	0.6	1.4	14.0	26.0	0.0114	210	300/D
11	1	Flexible	0.6	1.4	14.5	19.5	0.0104	240	300/D
	1.5	Flexible	0.6	1.4	15.5	13.3	0.0089	310	300/D
	2.5	Flexible	0.7	1.4	18.0	7.98	0.0081	460	300/D
	4	Flexible	0.8	1.4	21.0	4.95	0.0076	650	300/D
	6	Flexible	0.8	1.8	25.0	3.30	0.0061	1,000	300/D
	0.5	Flexible	0.6	1.2	12.5	39.0	0.0130	170	300/D
12	0.75	Flexible	0.6	1.4	14.0	26.0	0.0114	210	300/D
	1	Flexible	0.6	1.4	14.5	19.5	0.0104	250	300/D
	1.5	Flexible	0.6	1.4	15.5	13.3	0.0089	320	300/D
	2.5	Flexible	0.7	1.4	18.0	7.98	0.0081	480	300/D
	4	Flexible	0.8	1.4	21.0	4.95	0.0076	700	300/D
	6	Flexible	0.8	1.8	25.0	3.30	0.0061	1,100	300/D
13	0.5	Flexible	0.6	1.2	13.0	39.0	0.0130	180	300/D
	0.75	Flexible	0.6	1.4	14.5	26.0	0.0114	220	300/D
	1	Flexible	0.6	1.4	15.0	19.5	0.0104	280	300/D
	1.5	Flexible	0.6	1.4	16.0	13.3	0.0089	350	300/D
	2.5	Flexible	0.7	1.4	19.0	7.98	0.0081	550	300/D
	4	Flexible	0.8	1.4	22.0	4.95	0.0076	750	300/D
14	6	Flexible	0.8	1.8	26.0	3.30	0.0061	1,200	300/D
	0.5	Flexible	0.6	1.4	14.0	39.0	0.0130	200	300/D
	0.75	Flexible	0.6	1.4	15.0	26.0	0.0114	250	300/D
	1	Flexible	0.6	1.4	15.5	19.5	0.0104	290	300/D
	1.5	Flexible	0.6	1.4	17.0	13.3	0.0089	370	300/D
	2.5	Flexible	0.7	1.4	20.0	7.98	0.0081	550	300/D
15	4	Flexible	0.8	1.4	23.0	4.95	0.0076	850	300/D
	6	Flexible	0.8	1.8	28.0	3.30	0.0061	1,300	300/D
	0.5	Flexible	0.6	1.4	14.0	39.0	0.0130	210	300/D
	0.75	Flexible	0.6	1.4	15.0	26.0	0.0114	250	300/D
	1	Flexible	0.6	1.4	15.5	19.5	0.0104	300	300/D
	1.5	Flexible	0.6	1.4	17.0	13.3	0.0089	390	300/D
16	2.5	Flexible	0.7	1.4	20.0	7.98	0.0081	600	300/D
	4	Flexible	0.8	1.4	23.0	4.95	0.0076	850	300/D
	6	Flexible	0.8	1.8	28.0	3.30	0.0061	1,300	300/D
	0.5	Flexible	0.6	1.4	14.0	39.0	0.0130	210	300/D
	0.75	Flexible	0.6	1.4	15.0	26.0	0.0114	250	300/D
	1	Flexible	0.6	1.4	15.5	19.5	0.0104	300	300/D

D = Packing in drum

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	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)
15	0.5	Flexible	0.6	1.4	14.5	39.0	0.0130	220	300/D
	0.75	Flexible	0.6	1.4	15.5	26.0	0.0114	270	300/D
	1	Flexible	0.6	1.4	16.0	19.5	0.0104	320	300/D
	1.5	Flexible	0.6	1.4	17.5	13.3	0.0089	420	300/D
	2.5	Flexible	0.7	1.4	21.0	7.98	0.0081	650	300/D
	4	Flexible	0.8	1.8	25.0	4.95	0.0076	950	300/D
16	6	Flexible	0.8	1.8	29.0	3.30	0.0061	1,400	300/D
	0.5	Flexible	0.6	1.4	15.0	39.0	0.0130	230	300/D
	0.75	Flexible	0.6	1.4	15.5	26.0	0.0114	280	300/D
	1	Flexible	0.6	1.4	16.0	19.5	0.0104	340	300/D
	1.5	Flexible	0.6	1.4	17.5	13.3	0.0089	430	300/D
	2.5	Flexible	0.7	1.4	21.0	7.98	0.0081	650	300/D
17	4	Flexible	0.8	1.8	25.0	4.95	0.0076	1,000	300/D
	6	Flexible	0.8	1.8	29.0	3.30	0.0061	1,400	300/D
	0.5	Flexible	0.6	1.4	15.5	39.0	0.0130	240	300/D
	0.75	Flexible	0.6	1.4	16.5	26.0	0.0114	310	300/D
	1	Flexible	0.6	1.4	17.0	19.5	0.0104	370	300/D
	1.5	Flexible	0.6	1.4	18.5	13.3	0.0089	470	300/D
18	2.5	Flexible	0.7	1.4	22.0	7.98	0.0081	700	300/D
	4	Flexible	0.8	1.8	27.0	4.95	0.0076	1,100	300/D
	6	Flexible	0.8	1.8	31.0	3.30	0.0061	1,600	300/D
	0.5	Flexible	0.6	1.4	15.5	39.0	0.0130	250	300/D
	0.75	Flexible	0.6	1.4	16.5	26.0	0.0114	310	300/D
	1	Flexible	0.6	1.4	17.0	19.5	0.0104	370	300/D
19	1.5	Flexible	0.6	1.4	18.5	13.3	0.0089	470	300/D
	2.5	Flexible	0.7	1.4	22.0	7.98	0.0081	700	300/D
	4	Flexible	0.8	1.8	27.0	4.95	0.0076	1,100	300/D
	6	Flexible	0.8	1.8	31.0	3.30	0.0061	1,600	300/D
	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	320	300/D
20	1	Flexible	0.6	1.4	17.0	19.5	0.0104	380	300/D
	1.5	Flexible	0.6	1.4	18.5	13.3	0.0089	490	300/D
	2.5	Flexible	0.7	1.4	22.0	7.98	0.0081	750	300/D
	4	Flexible	0.8	1.8	27.0	4.95	0.0076	1,100	300/D
	6	Flexible	0.8	1.8	31.0	3.30	0.0061	1,600	300/D
	0.5	Flexible	0.6	1.4	16.0	39.0	0.0130	270	300/D
21	0.75	Flexible	0.6	1.4	17.0	26.0	0.0114	330	300/D
	1	Flexible	0.6	1.4	17.5	19.5	0.0104	400	300/D
	1.5	Flexible	0.6	1.4	19.0	13.3	0.0089	500	300/D
	2.5	Flexible	0.7	1.4	23.0	7.98	0.0081	800	300/D
	4	Flexible	0.8	1.8	28.0	4.95	0.0076	1,200	300/D
	6	Flexible	0.8	1.8	32.0	3.30	0.0061	1,700	300/D
22	0.5	Flexible	0.6	1.4	16.5	39.0	0.0130	280	300/D
	0.75	Flexible	0.6	1.4	17.5	26.0	0.0114	350	300/D
	1	Flexible	0.6	1.4	18.0	19.5	0.0104	420	300/D
	1.5	Flexible	0.6	1.4	19.5	13.3	0.0089	550	300/D
	2.5	Flexible	0.7	1.4	23.0	7.98	0.0081	800	300/D
	4	Flexible	0.8	1.8	28.0	4.95	0.0076	1,300	300/D
23	6	Flexible	0.8	1.8	32.0	3.30	0.0061	1,800	300/D
	0.5	Flexible	0.6	1.4	17.0	39.0	0.0130	300	300/D
	0.75	Flexible	0.6	1.4	18.0	26.0	0.0114	370	300/D
	1	Flexible	0.6	1.4	18.5	19.5	0.0104	450	300/D
	1.5	Flexible	0.6	1.4	20.0	13.3	0.0089	550	300/D
	2.5	Flexible	0.7	1.8	25.0	7.98	0.0081	900	300/D
24	4	Flexible	0.8	1.8	30.0	4.95	0.0076	1,300	300/D
	6	Flexible	0.8	1.8	34.0	3.30	0.0061	1,900	300/D
	0.5	Flexible	0.6	1.4	17.0	39.0	0.0130	310	300/D
	0.75	Flexible	0.6	1.4	18.0	26.0	0.0114	380	300/D
	1	Flexible	0.6	1.4	18.5	19.5	0.0104	460	300/D
	1.5	Flexible	0.6	1.4	20.0	13.3	0.0089	600	300/D
25	2.5	Flexible	0.7	1.8	25.0	7.98	0.0081	950	300/D
	4	Flexible	0.8	1.8	30.0	4.95	0.0076	1,400	300/D
26	6	Flexible	0.8	1.8	34.0	3.30	0.0061	2,000	300/D

D = Packing in drum

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	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)
24	0.5	Flexible	0.6	1.4	18.0	39.0	0.0130	320	300/D
	0.75	Flexible	0.6	1.4	19.0	26.0	0.0114	400	300/D
	1	Flexible	0.6	1.4	19.5	19.5	0.0104	500	300/D
	1.5	Flexible	0.6	1.4	21.0	13.3	0.0089	600	300/D
	2.5	Flexible	0.7	1.8	26.0	7.98	0.0081	1,000	300/D
	4	Flexible	0.8	1.8	31.0	4.95	0.0076	1,400	300/D
25	6	Flexible	0.8	2.2	37.0	3.30	0.0061	2,100	300/D
	0.5	Flexible	0.6	1.4	18.0	39.0	0.0130	330	300/D
	0.75	Flexible	0.6	1.4	19.0	26.0	0.0114	410	300/D
	1	Flexible	0.6	1.4	19.5	19.5	0.0104	490	300/D
	1.5	Flexible	0.6	1.4	21.0	13.3	0.0089	650	300/D
	2.5	Flexible	0.7	1.8	26.0	7.98	0.0081	1,000	300/D
26	4	Flexible	0.8	1.8	31.0	4.95	0.0076	1,500	300/D
	6	Flexible	0.8	2.2	37.0	3.30	0.0061	2,200	300/D
	0.5	Flexible	0.6	1.4	18.0	39.0	0.0130	340	300/D
	0.75	Flexible	0.6	1.4	19.0	26.0	0.0114	420	300/D
	1	Flexible	0.6	1.4	19.5	19.5	0.0104	500	300/D
	1.5	Flexible	0.6	1.4	21.0	13.3	0.0089	650	300/D
27	2.5	Flexible	0.7	1.8	26.0	7.98	0.0081	1,000	300/D
	4	Flexible	0.8	1.8	31.0	4.95	0.0076	1,500	300/D
	6	Flexible	0.8	2.2	37.0	3.30	0.0061	2,300	300/D
	0.5	Flexible	0.6	1.4	18.5	39.0	0.0130	340	300/D
	0.75	Flexible	0.6	1.4	19.5	26.0	0.0114	430	300/D
	1	Flexible	0.6	1.4	20.0	19.5	0.0104	500	300/D
28	1.5	Flexible	0.6	1.4	22.0	13.3	0.0089	650	300/D
	2.5	Flexible	0.7	1.8	27.0	7.98	0.0081	1,100	300/D
	4	Flexible	0.8	1.8	32.0	4.95	0.0076	1,600	300/D
	6	Flexible	0.8	2.2	38.0	3.30	0.0061	2,400	300/D
	0.5	Flexible	0.6	1.4	19.0	39.0	0.0130	370	300/D
	0.75	Flexible	0.6	1.4	20.0	26.0	0.0114	460	300/D
29	1	Flexible	0.6	1.4	21.0	19.5	0.0104	550	300/D
	1.5	Flexible	0.6	1.4	23.0	13.3	0.0089	700	300/D
	2.5	Flexible	0.7	1.8	28.0	7.98	0.0081	1,100	300/D
	4	Flexible	0.8	1.8	33.0	4.95	0.0076	1,700	300/D
	6	Flexible	0.8	2.2	39.0	3.30	0.0061	2,500	300/D
	0.5	Flexible	0.6	1.4	19.0	39.0	0.0130	370	300/D
30	0.75	Flexible	0.6	1.4	20.0	26.0	0.0114	460	300/D
	1	Flexible	0.6	1.4	21.0	19.5	0.0104	550	300/D
	1.5	Flexible	0.6	1.4	23.0	13.3	0.0089	750	300/D
	2.5	Flexible	0.7	1.8	28.0	7.98	0.0081	1,200	300/D
	4	Flexible	0.8	1.8	33.0	4.95	0.0076	1,700	300/D
	6	Flexible	0.8	2.2	39.0	3.30	0.0061	2,600	300/D
31	0.5	Flexible	0.6	1.4	19.5	39.0	0.0130	400	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	500	300/D
	1	Flexible	0.6	1.4	22.0	19.5	0.0104	600	300/D
	1.5	Flexible	0.6	1.8	24.0	13.3	0.0089	850	300/D
	2.5	Flexible	0.7	1.8	29.0	7.98	0.0081	1,300	300/D
	4	Flexible	0.8	1.8	34.0	4.95	0.0076	1,800	300/D
32	6	Flexible	0.8	2.2	41.0	3.30	0.0061	2,700	300/D
	0.5	Flexible	0.6	1.4	19.5	39.0	0.0130	400	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	500	300/D
	1	Flexible	0.6	1.4	22.0	19.5	0.0104	600	300/D
	1.5	Flexible	0.6	1.8	24.0	13.3	0.0089	850	300/D
	2.5	Flexible	0.7	1.8	29.0	7.98	0.0081	1,300	300/D
32	4	Flexible	0.8	1.8	34.0	4.95	0.0076	1,900	300/D
	6	Flexible	0.8	2.2	41.0	3.30	0.0061	2,800	300/D

D = Packing in drum

B

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	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)
33	0.5	Flexible	0.6	1.4	19.5	39.0	0.0130	400	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	500	300/D
	1	Flexible	0.6	1.4	22.0	19.5	0.0104	600	300/D
	1.5	Flexible	0.6	1.8	24.0	13.3	0.0089	850	300/D
	2.5	Flexible	0.7	1.8	29.0	7.98	0.0081	1,300	300/D
	4	Flexible	0.8	1.8	34.0	4.95	0.0076	1,900	300/D
34	6	Flexible	0.8	2.2	41.0	3.30	0.0061	2,800	300/D
	0.5	Flexible	0.6	1.4	20.0	39.0	0.0130	430	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	550	300/D
	1	Flexible	0.6	1.4	22.0	19.5	0.0104	650	300/D
	1.5	Flexible	0.6	1.8	25.0	13.3	0.0089	900	300/D
	2.5	Flexible	0.7	1.8	30.0	7.98	0.0081	1,400	300/D
35	4	Flexible	0.8	2.2	37.0	4.95	0.0076	2,100	300/D
	6	Flexible	0.8	2.2	42.0	3.30	0.0061	3,000	300/D
	0.5	Flexible	0.6	1.4	20.0	39.0	0.0130	430	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	550	300/D
	1	Flexible	0.6	1.4	22.0	19.5	0.0104	650	300/D
	1.5	Flexible	0.6	1.8	25.0	13.3	0.0089	900	300/D
36	2.5	Flexible	0.7	1.8	30.3	7.98	0.0081	1,400	300/D
	4	Flexible	0.8	2.2	37.0	4.95	0.0076	2,100	300/D
	6	Flexible	0.8	2.2	42.0	3.30	0.0061	3,000	300/D
	0.5	Flexible	0.6	1.4	20.0	39.0	0.0130	440	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	550	300/D
	1	Flexible	0.6	1.4	22.0	19.5	0.0104	650	300/D
37	1.5	Flexible	0.6	1.8	25.0	13.3	0.0089	900	300/D
	2.5	Flexible	0.7	1.8	30.0	7.98	0.0081	1,400	300/D
	4	Flexible	0.8	2.2	37.0	4.95	0.0076	2,200	300/D
	6	Flexible	0.8	2.2	42.0	3.30	0.0061	3,100	300/D
	0.5	Flexible	0.6	1.4	20.0	39.0	0.0130	450	300/D
	0.75	Flexible	0.6	1.4	21.0	26.0	0.0114	550	300/D
38	1	Flexible	0.6	1.4	22.0	19.5	0.0104	700	300/D
	1.5	Flexible	0.6	1.8	25.0	13.3	0.0089	950	300/D
	2.5	Flexible	0.7	1.8	30.0	7.98	0.0081	1,400	300/D
	4	Flexible	0.8	2.2	37.0	4.95	0.0076	2,200	300/D
	6	Flexible	0.8	2.2	42.0	3.30	0.0061	3,100	300/D
	0.5	Flexible	0.6	1.4	21.0	39.0	0.0130	460	300/D
39	0.75	Flexible	0.6	1.4	22.0	26.0	0.0114	600	300/D
	1	Flexible	0.6	1.4	23.0	19.5	0.0104	700	300/D
	1.5	Flexible	0.6	1.8	26.0	13.3	0.0089	1,000	300/D
	2.5	Flexible	0.7	1.8	31.0	7.98	0.0081	1,500	300/D
	4	Flexible	0.8	2.2	38.0	4.95	0.0076	2,300	300/D
	6	Flexible	0.8	2.2	44.0	3.30	0.0061	3,300	300/D
40	0.5	Flexible	0.6	1.4	21.0	39.0	0.0130	470	300/D
	0.75	Flexible	0.6	1.4	22.0	26.0	0.0114	600	300/D
	1	Flexible	0.6	1.4	23.0	19.5	0.0104	750	300/D
	1.5	Flexible	0.6	1.8	26.0	13.3	0.0089	1,000	300/D
	2.5	Flexible	0.7	1.8	31.0	7.98	0.0081	1,500	300/D
	4	Flexible	0.8	2.2	38.0	4.95	0.0076	2,300	300/D
41	6	Flexible	0.8	2.2	44.0	3.30	0.0061	3,400	300/D
	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	500	300/D
	0.75	Flexible	0.6	1.4	23.0	26.0	0.0114	650	300/D
	1	Flexible	0.6	1.8	25.0	19.5	0.0104	800	300/D
	1.5	Flexible	0.6	1.8	27.0	13.3	0.0089	1,000	300/D
	2.5	Flexible	0.7	1.8	33.0	7.98	0.0081	1,600	300/D
	4	Flexible	0.8	2.2	40.0	4.95	0.0076	2,400	300/D
	6	Flexible	0.8	2.2	46.0	3.30	0.0061	3,500	300/D

D = Packing in drum

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	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)
42	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	500	300/D
	0.75	Flexible	0.6	1.4	23.0	26.0	0.0114	650	300/D
	1	Flexible	0.6	1.8	25.0	19.5	0.0104	800	300/D
	1.5	Flexible	0.6	1.8	27.0	13.3	0.0089	1100	300/D
	2.5	Flexible	0.7	1.8	33.0	7.98	0.0081	1,600	300/D
	4	Flexible	0.8	2.2	40.0	4.95	0.0076	2,500	300/D
	6	Flexible	0.8	2.2	46.0	3.30	0.0061	3,600	300/D
43	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	500	300/D
	0.75	Flexible	0.6	1.4	23.0	26.0	0.0114	650	300/D
	1	Flexible	0.6	1.8	25.0	19.5	0.0104	850	300/D
	1.5	Flexible	0.6	1.8	27.0	13.3	0.0089	1100	300/D
	2.5	Flexible	0.7	1.8	33.0	7.98	0.0081	1,600	300/D
	4	Flexible	0.8	2.2	40.0	4.95	0.0076	2,500	300/D
	6	Flexible	0.8	2.2	46.0	3.30	0.0061	3,600	300/D
44	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	550	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	650	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	850	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1,100	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1,700	300/D
	4	Flexible	0.8	2.2	41.0	4.95	0.0076	2,600	300/D
	6	Flexible	0.8	2.6	48.0	3.30	0.0061	3,800	300/D
45	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	550	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	700	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	850	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1,100	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1,700	300/D
	4	Flexible	0.8	2.2	41.0	4.95	0.0076	2,600	300/D
	6	Flexible	0.8	2.6	48.0	3.30	0.0061	3,900	300/D
46	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	550	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	700	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	900	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1,100	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1,800	300/D
	4	Flexible	0.8	2.2	41.0	4.95	0.0076	2,700	300/D
	6	Flexible	0.8	2.6	48.0	3.30	0.0061	4,000	300/D
47	0.5	Flexible	0.6	1.4	22.0	39.0	0.0130	550	300/D
	0.75	Flexible	0.6	1.4	24.0	26.0	0.0114	700	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	900	300/D
	1.5	Flexible	0.6	1.8	28.0	13.3	0.0089	1,200	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1,800	300/D
	4	Flexible	0.8	2.2	41.0	4.95	0.0076	2,700	300/D
	6	Flexible	0.8	2.6	48.0	3.30	0.0061	4,000	300/D
48	0.5	Flexible	0.6	1.4	23.0	39.0	0.0130	550	300/D
	0.75	Flexible	0.6	1.8	25.0	26.0	0.0114	750	300/D
	1	Flexible	0.6	1.8	26.0	19.5	0.0104	900	300/D
	1.5	Flexible	0.6	1.8	29.0	13.3	0.0089	1,200	300/D
	2.5	Flexible	0.7	1.8	34.0	7.98	0.0081	1,800	300/D
	4	Flexible	0.8	2.2	42.0	4.95	0.0076	2,800	300/D
	6	Flexible	0.8	2.6	49.0	3.30	0.0061	4,100	300/D

D = Packing in drum

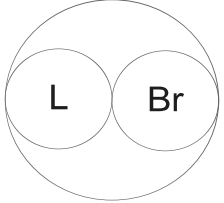
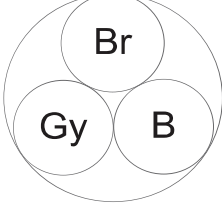
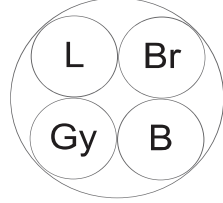
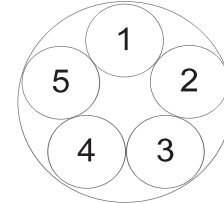
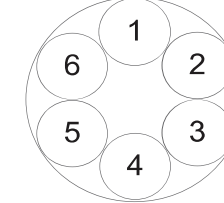
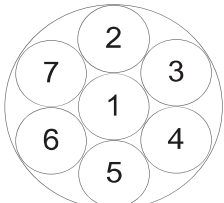
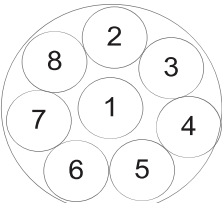
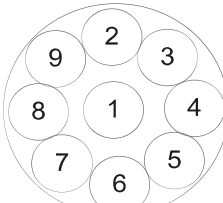
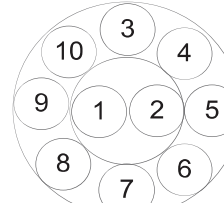
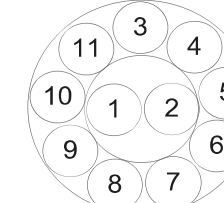
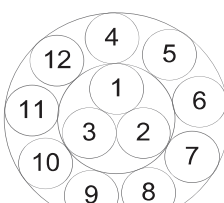
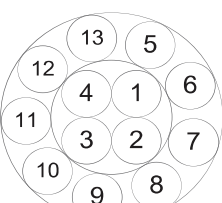
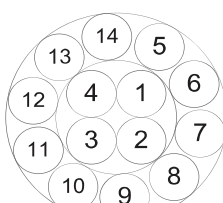
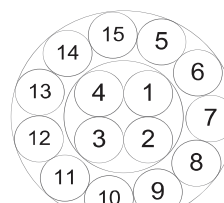
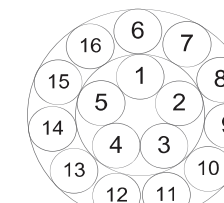
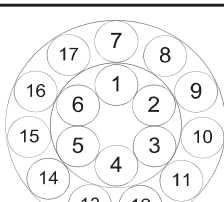
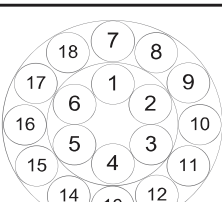
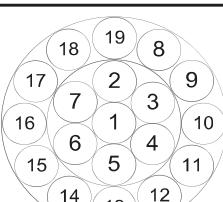
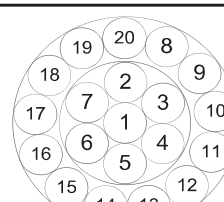
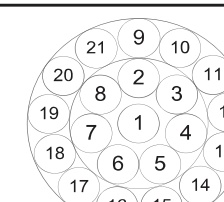
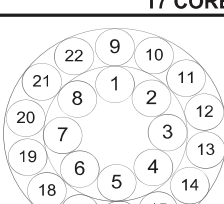
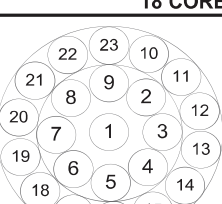
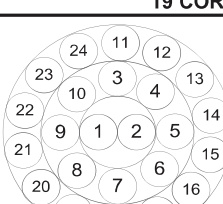
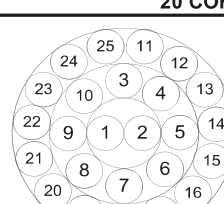
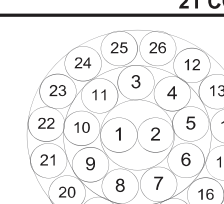
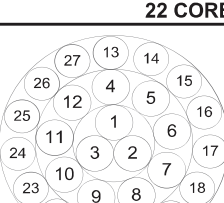
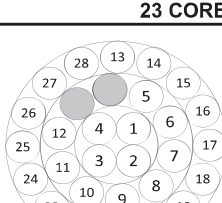
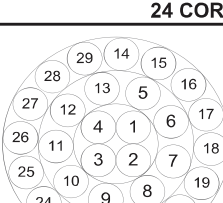
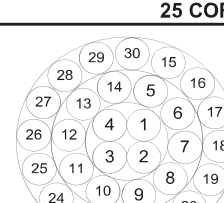
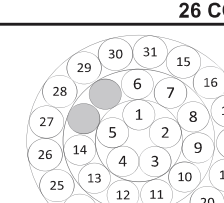
This table show only flexible stranded conductor. If you want to have solid or concentric conductor type, please contact with our sales department for CVV-S : The overall diameter of cable and cable weight shall be change a little bit more.

*Remark : Special protection can be produce.

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

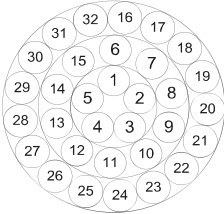
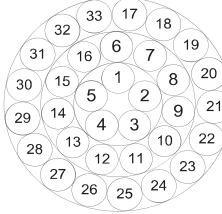
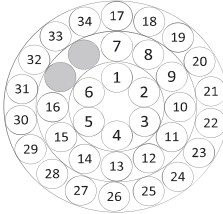
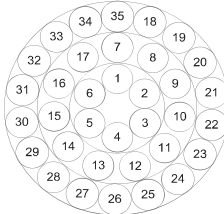
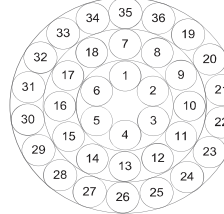
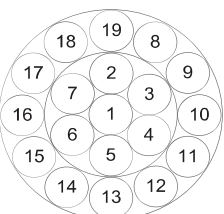
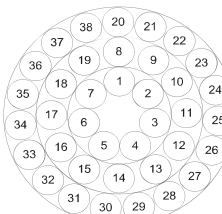
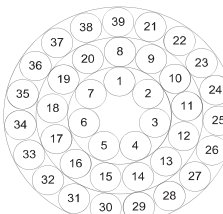
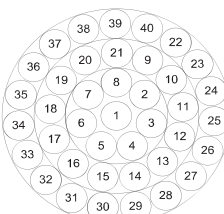
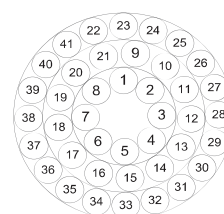
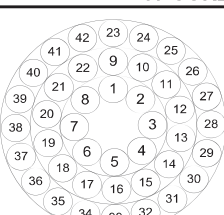
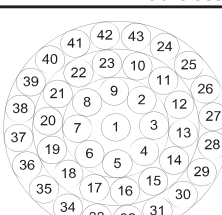
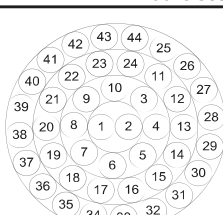
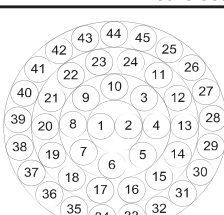
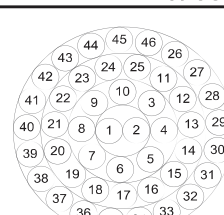
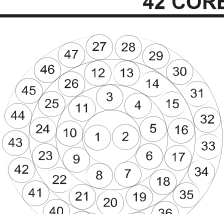
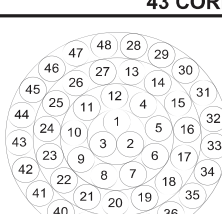
ARRANGEMENT OF CORES FOR CVV or CVV-S

				
2 CORES	3 CORES	4 CORES	5 CORES	6 CORES
				
7 CORES	8 CORES	9 CORES	10 CORES	11 CORES
				
12 CORES	13 CORES	14 CORES	15 CORES	16 CORES
				
17 CORES	18 CORES	19 CORES	20 CORES	21 CORES
				
22 CORES	23 CORES	24 CORES	25 CORES	26 CORES
				
27 CORES	28 CORES	29 CORES	30 CORES	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)

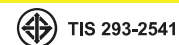
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH CONTROL CABLE
600 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED AND SHEATH WITH SHIELD CONTROL CABLE

ARRANGEMENT OF CORES FOR CVV or CVV-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			

B

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)

750V 70°C ALUMINIUM CONDUCTOR PVC INSULATED, SINGLE CORE

CABLE STRUCTURE

Conductor : Solid and Stranded hard drawn aluminium wires
 Sizes 10 mm² up to 500 mm²

Insulation : Black polyvinyl chloride (PVC)

TECHNICAL DATA

Classification : Maximum conductor temperature 70 °C
 : Circuit voltage not exceeding 750 Volts

Testing voltage : 2,500 Volts

Reference standard : TIS 293-2541, Table 1

APPLICATION

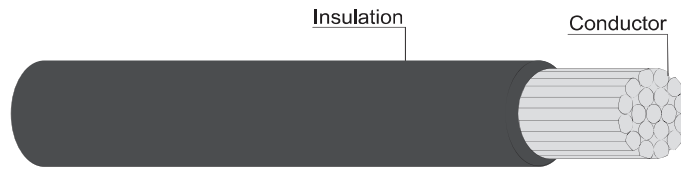
For low voltage overhead distribution line

Nominal cross sectional area (mm ²)	Number and diameter of wires (No./mm)	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Breaking strength of conductor minimum (N)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
10	1/3.49	1.1	6.0	3.08	0.0078	1,562	52	50	500/C
10	7/1.32	1.1	6.5	3.08	0.0070	1,769	52	55	500/C
16	1/4.43	1.1	7.0	1.91	0.0064	2,445	70	70	500/C
16	7/1.68	1.1	7.6	1.91	0.0058	2,781	70	80	500/C
25	7/2.12	1.3	9.3	1.20	0.0055	4,241	95	120	300/C
35	7/2.49	1.3	10.5	0.868	0.0048	5,703	117	160	200/C
50	7/2.90	1.5	12.0	0.641	0.0047	7,423	143	210	200/C
50	19/1.76	1.5	12.5	0.641	0.0047	8,114	143	210	200/C
70	19/2.12	1.5	14.0	0.443	0.0040	11,487	185	280	100/C
95	19/2.49	1.7	16.5	0.320	0.0038	15,470	226	390	100/C
120	19/2.80	1.7	18.0	0.253	0.0035	18,810	264	470	500/D
120	37/2.01	1.7	18.0	0.253	0.0034	20,114	264	470	500/D
150	37/2.23	1.9	20.0	0.206	0.0035	24,704	302	600	500/D
185	37/2.50	2.1	22.0	0.164	0.0034	30,187	352	700	500/D
240	61/2.23	2.3	25.0	0.125	0.0033	38,568	421	900	500/D
300	61/2.49	2.5	28.0	0.100	0.0032	46,901	487	1,100	500/D
400	61/2.82	2.7	32.0	0.0778	0.0031	57,948	574	1,400	500/D
500	61/3.20	3.1	36.0	0.0605	0.0031	73,194	675	1,900	500/D

C : Packing in coil
 D : Packing in drum

Nominal cross sectional area (mm ²)	Number and diameter of wires (No./mm)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
10	1/3.49	3.7006	0.4819	0.1514	3.7037
10	7/1.32	3.7006	0.4868	0.1529	3.7038
16	1/4.43	2.2949	0.4650	0.1461	2.2996
16	7/1.68	2.2949	0.4698	0.1476	2.2996
25	7/2.12	1.4419	0.4637	0.1457	1.4492
35	7/2.49	1.0430	0.4539	0.1426	1.0527
50	7/2.90	0.7703	0.4553	0.1430	0.7835
50	19/1.76	0.7703	0.4459	0.1401	0.7829
70	19/2.12	0.5325	0.4359	0.1370	0.5498
95	19/2.49	0.3847	0.4340	0.1363	0.4082
120	19/2.80	0.3043	0.4280	0.1345	0.3327
120	37/2.01	0.3043	0.4255	0.1337	0.3324
150	37/2.23	0.2479	0.4258	0.1338	0.2817
185	37/2.50	0.1976	0.4248	0.1334	0.2384
240	61/2.23	0.1509	0.4150	0.1304	0.1994
300	61/2.49	0.1210	0.4201	0.1320	0.1791
400	61/2.82	0.0946	0.4175	0.1311	0.1617
500	61/3.20	0.0741	0.4184	0.1314	0.1509

750V 70°C COMPACTED ALUMINIUM CONDUCTOR PVC INSULATED, SINGLE CORE

 TIS 293-2541


CABLE STRUCTURE

Conductor : Compact stranded hard drawn aluminium wires
Sizes 10 mm² up to 500 mm²

Insulation : Black Polyvinyl chloride (PVC)

TECHNICAL DATA


Classification : Maximum conductor temperature 70 °C
: Circuit voltage not exceeding 750 Volts

Testing voltage : 2,500 Volts

Reference standard : TIS 293-2541, Table 2

APPLICATION

For low voltage overhead distribution line

Nominal cross sectional area	Actual cross sectional area	Minimum number of wires	Conductor diameter approx.	Insulation thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Breaking strength of conductor minimum	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx.	Standard Length
(mm ²)	(mm ²)	(No.)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(N)		(kg/km)	(m)
10	9.64	6	3.72	1.1	6.3	3.08	0.0084	1,768	52	50	500/C
16	15.55	6	4.69	1.1	7.2	1.91	0.0068	2,734	69	75	500/C
25	24.75	6	5.90	1.3	8.8	1.20	0.0064	4,120	93	110	300/C
35	34.21	6	6.95	1.3	9.9	0.868	0.0056	5,591	115	150	300/C
50	46.32	6	8.01	1.5	11.5	0.641	0.0059	7,313	141	200	200/C
70	67.03	12	9.73	1.5	13.5	0.443	0.0050	10,420	178	270	100/C
95	92.79	15	11.40	1.7	15.5	0.320	0.0047	14,098	220	370	100/C
120	117.37	15	12.95	1.7	17.0	0.253	0.0042	18,518	258	450	100/C
150	144.15	15	14.27	1.9	18.5	0.206	0.0042	22,457	294	550	500/D
185	181.06	30	15.98	2.1	21.0	0.164	0.0042	28,974	342	700	500/D
240	237.55	30	18.47	2.3	24.0	0.125	0.0040	37,506	410	900	500/D
300	296.94	30	20.68	2.5	26.0	0.100	0.0038	45,642	475	1,100	500/D
400	381.67	53	23.39	2.7	30.0	0.0778	0.0036	56,992	560	1,400	500/D
500	490.81	53	26.67	3.1	34.0	0.0605	0.0037	72,195	659	1,800	500/D

C : Packing in Coil

D : Packing in Drum

Nominal cross sectional area	A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
(mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
10	3.7006	0.4930	0.1549	3.7039
16	2.2949	0.4734	0.1487	2.2997
25	1.4419	0.4676	0.1469	1.4493
35	1.0430	0.4584	0.1440	1.0529
50	0.7703	0.4617	0.1451	0.7838
70	0.5325	0.4414	0.1387	0.5502
95	0.3847	0.4377	0.1375	0.4086
120	0.3043	0.4321	0.1358	0.3332
150	0.2479	0.4319	0.1357	0.2826
185	0.1976	0.4290	0.1348	0.2392
240	0.1509	0.4261	0.1339	0.2017
300	0.1210	0.4244	0.1333	0.1801
400	0.0946	0.4206	0.1321	0.1625
500	0.0741	0.4217	0.1325	0.1518