

Aluminium Conductor Cables

Building Wires and Cables

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C

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


 TIS 293-2541

CABLE STRUCTURE

Conductor : Solid and Stranded hard drawn aluminium wires

Insulation : Black polyvinyl chloride (PVC)

TECHNICAL DATA

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

AC Testing voltage : 2,500 Volts

Reference standard : TIS 293-2541, Table 1

APPLICATION

For low voltage overhead distribution line

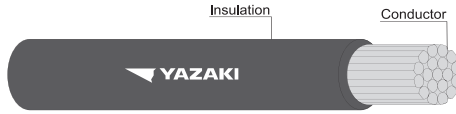
Nominal cross sectional area	Number and diameter of wires	Insulation thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Breaking strength of conductor minimum	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx.	Standard length
(mm ²)	(No./mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(N)		(kg/km)	(m)
10	1/3.49	1.1	6.0	3.08	0.0078	1,562	52	51	100/C
10	7/1.32	1.1	6.5	3.08	0.0070	1,769	52	57	100/C
16	1/4.43	1.1	7.0	1.91	0.0064	2,445	70	72	100/C
16	7/1.68	1.1	8.0	1.91	0.0058	2,781	70	82	100/C
25	7/2.12	1.3	9.5	1.20	0.0055	4,241	95	126	100/C
35	7/2.49	1.3	10.5	0.868	0.0048	5,703	117	162	100/C
50	7/2.90	1.5	12.5	0.641	0.0047	7,423	143	220	100/C
50	19/1.76	1.5	12.5	0.641	0.0047	8,114	143	214	100/C
70	19/2.12	1.5	14.5	0.443	0.0040	11,487	185	289	100/C
95	19/2.49	1.7	16.5	0.320	0.0038	15,470	226	394	100/C
120	19/2.80	1.7	18.0	0.253	0.0035	18,810	264	478	500/D
120	37/2.01	1.7	18.0	0.253	0.0034	20,114	264	475	500/D
150	37/2.23	1.9	20.0	0.206	0.0035	24,704	302	587	500/D
185	37/2.50	2.1	22.5	0.164	0.0034	30,187	352	729	500/D
240	61/2.23	2.3	25.5	0.125	0.0033	38,568	421	941	500/D
300	61/2.49	2.5	28.5	0.100	0.0032	46,901	487	1166	500/D
400	61/2.82	2.7	31.5	0.0778	0.0031	57,948	574	1469	500/D
500	61/3.20	3.1	36.0	0.0605	0.0031	73,194	675	1902	500/D

C : Packing in coil

D : Packing in drum

Nominal cross sectional area	Number and diameter of wires	A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
(mm ²)	(No./mm)	(Ω/km)	(mH/km)	(Ω/km)	(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 : Compacted stranded hard drawn aluminium wires

Insulation : Black Polyvinyl chloride (PVC)

TECHNICAL DATA

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

AC Testing voltage : 2,500 Volts

Reference standard : TIS 293-2541, Table 2

APPLICATION

For low voltage overhead distribution line

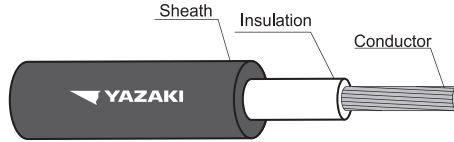
Nominal cross sectional area (mm ²)	Conductor type	Conductor diameter approx. (mm)	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Breaking strength of conductor minimum (N)	Continuous current rating in free air at 40°C maximum (A) 	Cable weight approx. (kg/km)	Standard length (m)
10	Compacted	3.72	1.1	6.5	3.08	0.0084	1,768	52	55	100/C
16	Compacted	4.69	1.1	7.5	1.91	0.0068	2,734	69	80	100/C
25	Compacted	5.90	1.3	9.0	1.20	0.0064	4,120	93	120	100/C
35	Compacted	6.95	1.3	10.0	0.868	0.0056	5,591	115	160	100/C
50	Compacted	8.01	1.5	12.0	0.641	0.0059	7,313	141	210	100/C
70	Compacted	9.73	1.5	13.5	0.443	0.0050	10,420	178	280	100/C
95	Compacted	11.40	1.7	15.5	0.320	0.0047	14,098	220	380	100/C
120	Compacted	12.95	1.7	17.0	0.253	0.0042	18,518	258	460	100/C
150	Compacted	14.27	1.9	19.0	0.206	0.0042	22,457	294	560	500/D
185	Compacted	15.98	2.1	21.0	0.164	0.0042	28,974	342	710	500/D
240	Compacted	18.47	2.3	24.0	0.125	0.0040	37,506	410	920	500/D
300	Compacted	20.68	2.5	26.5	0.100	0.0038	45,642	475	1140	500/D
400	Compacted	23.39	2.7	29.5	0.0778	0.0036	56,992	560	1440	500/D
500	Compacted	26.67	3.1	34.0	0.0605	0.0037	72,195	659	1870	500/D

C : Packing in coil
D : Packing in drum

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

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

IEC 60502-1

**CABLE STRUCTURE**

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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

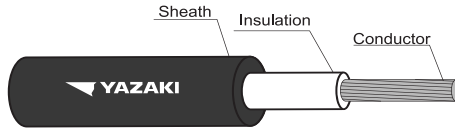
Number of core	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
								Spaced 	Touching 	Trefoil 			
1	10	Compacted	0.7	1.4	8.5	308	1,250	72	55	54	64	83	500/D
	16	Compacted	0.7	1.4	9.5	1.91	1,000	95	74	72	82	109	500/D
	25	Compacted	0.9	1.4	11.5	1.20	1,050	128	100	97	107	153	500/D
	35	Compacted	0.9	1.4	12.5	0.868	900	156	122	119	128	191	500/D
	50	Compacted	1.0	1.4	13.5	0.641	850	189	149	145	151	240	500/D
	70	Compacted	1.1	1.4	15.5	0.443	800	240	190	184	185	318	500/D
	95	Compacted	1.1	1.5	17.5	0.320	650	295	236	228	221	417	500/D
	120	Compacted	1.2	1.6	19.5	0.253	650	345	277	268	252	521	500/D
	150	Compacted	1.4	1.8	21.5	0.206	700	393	317	308	282	643	500/D
	185	Compacted	1.6	2.1	24.5	0.164	700	458	371	360	321	824	500/D
	240	Compacted	1.7	2.3	28.0	0.125	650	548	446	432	373	1058	500/D
	300	Compacted	1.8	2.4	30.5	0.100	600	633	518	501	420	1285	500/D
	400	Compacted	2.0	2.7	34.0	0.0778	600	745	612	591	481	1644	500/D
	500	Compacted	2.2	3.0	38.5	0.0605	600	878	724	698	550	2107	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

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

IEC 60502-1

**CABLE STRUCTURE**

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

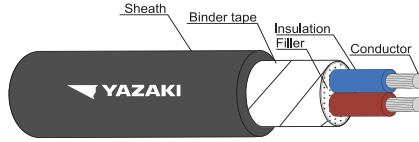
Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1
IEC 60332-3-24 (Cat.C)

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 R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	10	3.9489	3.9489	3.9489	0.5529	0.4143	0.3681	0.1737	0.1302	0.1156	3.9527	3.9510	3.9506
	16	2.4488	2.4489	2.4489	0.5267	0.3881	0.3419	0.1655	0.1219	0.1074	2.4544	2.4519	2.4512
	25	1.5386	1.5386	1.5386	0.5141	0.3755	0.3292	0.1615	0.1180	0.1034	1.5470	1.5431	1.5421
	35	1.1129	1.1130	1.1130	0.5002	0.3616	0.3154	0.1571	0.1136	0.0991	1.1240	1.1188	1.1174
	50	0.8219	0.8220	0.8220	0.4921	0.3535	0.3072	0.1546	0.1110	0.0965	0.8364	0.8295	0.8277
	70	0.5681	0.5682	0.5683	0.4707	0.3321	0.2859	0.1479	0.1043	0.0898	0.5871	0.5777	0.5753
	95	0.4105	0.4106	0.4107	0.4635	0.3248	0.2786	0.1456	0.1020	0.0875	0.4356	0.4231	0.4199
	120	0.3247	0.3248	0.3250	0.4576	0.3190	0.2728	0.1438	0.1002	0.0857	0.3551	0.3399	0.3361
	150	0.2645	0.2647	0.2648	0.4571	0.3185	0.2723	0.1436	0.1001	0.0855	0.3010	0.2830	0.2783
	185	0.2107	0.2110	0.2112	0.4526	0.3139	0.2677	0.1422	0.0986	0.0841	0.2542	0.2329	0.2273
	240	0.1609	0.1612	0.1615	0.4470	0.3083	0.2621	0.1404	0.0969	0.0823	0.2135	0.1881	0.1813
	300	0.1290	0.1294	0.1298	0.4432	0.3046	0.2584	0.1392	0.0957	0.0812	0.1898	0.1610	0.1531
C	400	0.1008	0.1013	0.1018	0.4394	0.3008	0.2546	0.1381	0.0945	0.0800	0.1709	0.1386	0.1295
	500	0.0789	0.0796	0.0802	0.4365	0.2979	0.2517	0.1371	0.0936	0.0791	0.1582	0.1229	0.1126

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



IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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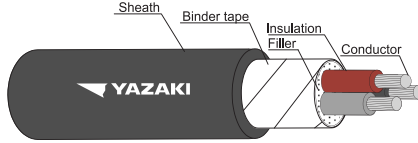
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
2	10	Compacted	0.7	1.9	16.0	3.08	1,250	61	77	222	500/D
	16	Compacted	0.7	2.1	18.5	1.91	1,000	82	100	308	500/D
	25	Compacted	0.9	2.9	23.5	1.20	1,050	110	130	522	500/D
	35	Compacted	0.9	3.0	26.0	0.868	900	134	154	643	500/D
	50	Compacted	1.0	3.2	29.0	0.641	850	164	180	820	500/D
	70	Compacted	1.1	3.6	33.5	0.443	800	208	220	1117	500/D
	95	Compacted	1.1	4.0	38.0	0.320	650	254	365	1446	500/D
	120	Compacted	1.2	4.0	41.5	0.253	650	296	300	1735	500/D
	150	Compacted	1.4	4.0	45.0	0.206	700	338	335	2042	500/D
	185	Compacted	1.6	4.0	49.5	0.164	700	392	380	2468	500/D
	240	Compacted	1.7	4.0	55.0	0.125	650	464	440	3053	500/D
	300	Compacted	1.8	4.0	60.0	0.100	600	531	496	3635	500/D
	400	Compacted	2.0	4.0	66.5	0.0778	600	619	565	4476	500/D

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)
2	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5386	0.2637	0.0829	1.5409
	35	1.1130	0.2567	0.0807	1.1159
	50	0.8220	0.2551	0.0801	0.8259
	70	0.5683	0.2409	0.0757	0.5733
	95	0.4107	0.2337	0.0734	0.4172
	120	0.3249	0.2325	0.0731	0.3331
	150	0.2648	0.2337	0.0734	0.2748
	185	0.2111	0.2333	0.0733	0.2235
	240	0.1614	0.2300	0.0723	0.1769
	300	0.1297	0.2278	0.0716	0.1481
	400	0.1016	0.2260	0.0710	0.1240

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

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



IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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

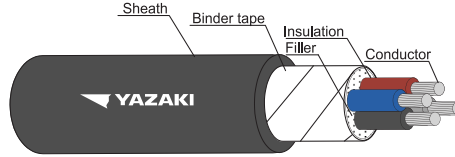
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MQ·km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
3	10	Compacted	0.7	2.0	17.0	3.08	1,250	51	65	271	500/D
	16	Compacted	0.7	2.2	19.5	1.91	1,000	68	84	378	500/D
	25	Compacted	0.9	2.6	24.0	1.20	1,050	91	110	566	500/D
	35	Compacted	0.9	2.7	26.5	0.868	900	113	130	701	500/D
	50	Compacted	1.0	2.8	29.5	0.641	850	136	154	891	500/D
	70	Compacted	1.1	3.0	34.5	0.443	800	172	188	1203	500/D
	95	Compacted	1.1	3.3	38.5	0.320	650	210	225	1569	500/D
	120	Compacted	1.2	3.8	43.5	0.253	650	248	255	2010	500/D
	150	Compacted	1.4	4.0	47.5	0.206	700	283	285	2435	500/D
	185	Compacted	1.6	4.0	52.5	0.164	700	329	325	2948	500/D
	240	Compacted	1.7	4.0	58.5	0.125	650	389	375	3673	500/D
	300	Compacted	1.8	4.0	64.0	0.100	600	446	420	4407	500/D
	400	Compacted	2.0	4.0	71.0	0.078	600	519	480	5446	500/D

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	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5386	0.2637	0.0829	1.5409
	35	1.1130	0.2567	0.0807	1.1159
	50	0.8220	0.2551	0.0801	0.8259
	70	0.5683	0.2409	0.0757	0.5733
	95	0.4107	0.2337	0.0734	0.4172
	120	0.3249	0.2325	0.0731	0.3331
	150	0.2648	0.2337	0.0734	0.2748
	185	0.2111	0.2333	0.0733	0.2235
	240	0.1614	0.2300	0.0723	0.1769
	300	0.1297	0.2278	0.0716	0.1481
	400	0.1016	0.2260	0.0710	0.1240

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

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



IEC 60502-1



CABLE STRUCTURE

Conductor	: Compacted stranded hard drawn aluminium
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation color	: Blue, Brown, Black, Grey
Filler	: Non-hygroscopic material
Binder tape	: Non-hygroscopic tape
Sheath	: Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

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

APPLICATION

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

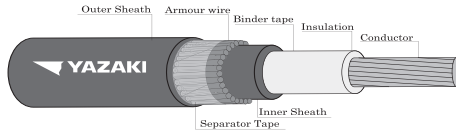
Number of cores	Nominal cross sectional area (mm ²)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
4	10	Compacted 0.7	2.3	19.0	3.08	1,250	51	65	352	500/D
	16	Compacted 0.7	2.5	21.5	1.91	1,000	68	84	486	500/D
	25	Compacted 0.9	3.0	27.0	1.20	1,050	91	110	750	500/D
	35	Compacted 0.9	3.2	30.0	0.868	900	113	130	948	500/D
	50	Compacted 1.0	3.4	33.5	0.641	850	136	154	1211	500/D
	70	Compacted 1.1	3.7	39.0	0.443	800	172	188	1636	500/D
	95	Compacted 1.1	4.0	43.5	0.320	650	210	225	2128	500/D
	120	Compacted 1.2	4.0	48.0	0.253	650	248	255	2589	500/D
	150	Compacted 1.4	4.0	52.0	0.206	700	283	285	3080	500/D
	185	Compacted 1.6	4.0	58.0	0.164	700	329	325	3751	500/D
	240	Compacted 1.7	4.0	64.5	0.125	650	389	375	4700	500/D
	300	Compacted 1.8	4.0	70.5	0.100	600	446	420	5662	500/D
	400	Compacted 2.0	4.0	78.0	0.0778	600	519	480	7041	300/D

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	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5386	0.2637	0.0829	1.5409
	35	1.1130	0.2567	0.0807	1.1159
	50	0.8220	0.2551	0.0801	0.8259
	70	0.5683	0.2409	0.0757	0.5733
	95	0.4107	0.2337	0.0734	0.4172
	120	0.3249	0.2325	0.0731	0.3331
	150	0.2648	0.2337	0.0734	0.2748
	185	0.2111	0.2333	0.0733	0.2235
	240	0.1614	0.2300	0.0723	0.1769
	300	0.1297	0.2278	0.0716	0.1481
	400	0.1016	0.2260	0.0710	0.1240

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

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



IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Natural (Translucent)

Inner sheath : Black polyvinyl chloride (PVC)

Aarmor : Aluminium wires

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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

Number of core	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer 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)
											Spaced	Touching	Trefoil			
																
1	10	Compacted	0.7	1.2	8.5	1.25	1.8	15.0	3.08	1,250	80	66	64	96	264	500/D
	16	Compacted	0.7	1.2	9.0	1.25	1.8	16.0	1.91	1,000	105	86	84	125	305	500/D
	25	Compacted	0.9	1.2	11.0	1.25	1.8	17.5	1.20	1,050	139	114	111	161	376	500/D
	35	Compacted	0.9	1.2	12.0	1.25	1.8	18.5	0.868	900	169	139	135	194	433	500/D
	50	Compacted	1.0	1.2	13.5	1.25	1.8	20.0	0.641	850	202	167	162	229	503	500/D
	70	Compacted	1.1	1.2	15.0	1.25	1.8	22.0	0.443	800	253	209	203	281	615	500/D
	95	Compacted	1.1	1.2	17.0	1.60	1.8	24.0	0.320	650	312	258	251	339	779	500/D
	120	Compacted	1.2	1.2	18.5	1.60	1.8	26.0	0.253	650	362	300	291	387	904	500/D
	150	Compacted	1.4	1.2	20.5	1.60	1.8	27.5	0.206	700	410	341	331	432	1035	500/D
	185	Compacted	1.6	1.2	22.5	2.00	1.9	31.0	0.164	700	479	400	388	492	1314	500/D
	240	Compacted	1.7	1.2	25.5	2.00	2.0	34.0	0.125	650	569	476	461	573	1588	500/D
	300	Compacted	1.8	1.2	27.5	2.00	2.1	37.0	0.100	600	655	550	532	648	1874	500/D
	400	Compacted	2.0	1.2	31.0	2.00	2.2	40.0	0.0778	600	766	644	624	741	2264	500/D
	500	Compacted	2.2	1.2	34.5	2.00	2.3	44.0	0.0605	600	897	756	731	848	2744	500/D

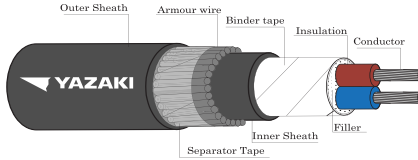
Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	10	3.9489	3.9489	3.9489	0.6639	0.5252	0.4790	0.2086	0.1650	0.1505	3.9544	3.9523	3.9518
	16	2.4488	2.4488	2.4489	0.6293	0.4907	0.4445	0.1977	0.1542	0.1396	2.4568	2.4537	2.4528
	25	1.5386	1.5386	1.5386	0.6040	0.4654	0.4191	0.1897	0.1462	0.1317	1.5502	1.5455	1.5442
	35	1.1129	1.1130	1.1130	0.5835	0.4449	0.3986	0.1833	0.1398	0.1252	1.1279	1.1217	1.1200
	50	0.8219	0.8220	0.8220	0.5687	0.4301	0.3838	0.1787	0.1351	0.1206	0.8411	0.8330	0.8308
	70	0.5681	0.5682	0.5682	0.5393	0.4007	0.3544	0.1694	0.1259	0.1114	0.5929	0.5819	0.5790
	95	0.4105	0.4106	0.4106	0.5278	0.3891	0.3429	0.1658	0.1223	0.1077	0.4427	0.4284	0.4245
	120	0.3247	0.3247	0.3248	0.5167	0.3781	0.3319	0.1623	0.1188	0.1043	0.3630	0.3458	0.3411
	150	0.2645	0.2646	0.2647	0.5101	0.3715	0.3252	0.1602	0.1167	0.1022	0.3092	0.2892	0.2837
	185	0.2107	0.2108	0.2110	0.5082	0.3695	0.3233	0.1596	0.1161	0.1016	0.2644	0.2407	0.2341
	240	0.1608	0.1610	0.1612	0.4960	0.3573	0.3111	0.1558	0.1123	0.0977	0.2239	0.1963	0.1885
	300	0.1289	0.1292	0.1294	0.4894	0.3507	0.3045	0.1537	0.1102	0.0957	0.2007	0.1698	0.1609
	400	0.1007	0.1011	0.1014	0.4836	0.3450	0.2987	0.1519	0.1084	0.0939	0.1823	0.1482	0.1381
	500	0.0788	0.0793	0.0797	0.4760	0.3373	0.2911	0.1495	0.1060	0.0915	0.1690	0.1324	0.1213

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

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



IEC 60502-1



CABLE STRUCTURE

Conductor	: Compacted stranded hard drawn aluminium
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation color	: Blue, Brown
Filler	: Non-hygroscopic material
Binder tape	: Non-hygroscopic tape
Inner sheath	: Black polyvinyl chloride (PVC)
Armor	: Galvanized steel wires
Outer sheath	: Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

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

APPLICATION

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

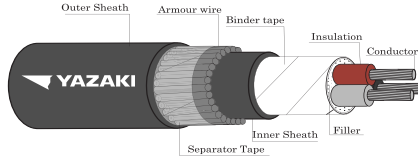
Number of cores	Nominal cross sectional area (mm²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 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)
2	10	Compacted	0.7	1.2	14.5	1.25	1.8	21.0	3.08	1,250	64	72	696	500/D
	16	Compacted	0.7	1.2	16.0	1.60	1.8	23.5	1.91	1,000	86	94	963	500/D
	25	Compacted	0.9	1.2	19.5	1.60	1.8	27.0	1.20	1,050	114	121	1206	500/D
	35	Compacted	0.9	1.2	22.0	1.60	1.9	29.5	0.868	900	141	146	1395	500/D
	50	Compacted	1.0	1.2	24.5	1.60	1.9	32.0	0.641	850	169	172	1629	500/D
	70	Compacted	1.1	1.2	28.5	2.00	2.1	37.5	0.443	800	213	211	2280	500/D
	95	Compacted	1.1	1.2	31.5	2.00	2.2	41.0	0.320	650	260	252	2673	500/D
	120	Compacted	1.2	1.2	35.0	2.00	2.4	45.0	0.253	650	302	286	3122	500/D
	150	Compacted	1.4	1.3	39.0	2.50	2.5	50.0	0.206	700	344	320	4037	500/D
	185	Compacted	1.6	1.4	43.5	2.50	2.7	55.0	0.164	700	396	362	4773	500/D
	240	Compacted	1.7	1.5	49.5	2.50	2.9	61.5	0.125	650	469	419	5736	500/D
	300	Compacted	1.8	1.6	54.5	2.50	3.1	67.0	0.100	600	537	472	6676	500/D
	400	Compacted	2.0	1.7	61.0	2.50	3.3	74.0	0.0778	600	622	536	7711	300/D

Number of cores	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
2	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5386	0.2637	0.0829	1.5409
	35	1.1130	0.2567	0.0807	1.1159
	50	0.8220	0.2551	0.0801	0.8259
	70	0.5683	0.2409	0.0757	0.5733
	95	0.4107	0.2337	0.0734	0.4172
	120	0.3249	0.2325	0.0731	0.3331
	150	0.2648	0.2337	0.0734	0.2748
	185	0.2111	0.2333	0.0733	0.2235
	240	0.1614	0.2300	0.0723	0.1769
	300	0.1297	0.2278	0.0716	0.1481
	400	0.1016	0.2274	0.0714	0.1242

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

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



IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized steel wires

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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

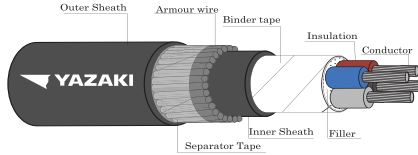
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 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	10	Compacted	0.7	1.2	15.0	1.25	1.8	22.0	3.08	1,250	55	61	761	500/D
	16	Compacted	0.7	1.2	17.0	1.60	1.8	24.5	1.91	1,000	73	79	1061	500/D
	25	Compacted	0.9	1.2	21.0	1.60	1.8	28.5	1.20	1,050	97	102	1317	500/D
	35	Compacted	0.9	1.2	23.5	1.60	1.9	31.0	0.868	900	120	123	1562	500/D
	50	Compacted	1.0	1.2	26.0	2.00	2.0	35.0	0.641	850	144	145	2073	500/D
	70	Compacted	1.1	1.2	30.5	2.00	2.2	39.5	0.443	800	181	177	2586	500/D
	95	Compacted	1.1	1.2	33.5	2.00	2.3	43.0	0.320	650	221	212	3054	500/D
	120	Compacted	1.2	1.3	38.0	2.50	2.5	49.0	0.253	650	258	242	4062	500/D
	150	Compacted	1.4	1.4	42.0	2.50	2.6	53.0	0.206	700	292	269	4679	500/D
	185	Compacted	1.6	1.5	47.0	2.50	2.8	59.0	0.164	700	336	304	5554	500/D
	240	Compacted	1.7	1.6	53.5	2.50	3.0	65.5	0.125	650	397	351	6689	500/D
	300	Compacted	1.8	1.7	58.5	2.50	3.2	71.5	0.100	600	454	394	7848	300/D
	400	Compacted	2.0	1.8	66.0	3.15	3.5	80.5	0.0778	600	524	444	10320	200/D

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	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5387	0.2637	0.0829	1.5409
	35	1.1131	0.2567	0.0807	1.1160
	50	0.8221	0.2551	0.0801	0.8260
	70	0.5684	0.2409	0.0757	0.5734
	95	0.4109	0.2337	0.0734	0.4174
	120	0.3251	0.2325	0.0731	0.3332
	150	0.2650	0.2337	0.0734	0.2750
	185	0.2114	0.2333	0.0733	0.2237
	240	0.1618	0.2300	0.0723	0.1772
	300	0.1301	0.2278	0.0716	0.1485
	400	0.1022	0.2274	0.0714	0.1247

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

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



IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized steel wires

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°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	10	Compacted	0.7	1.2	16.5	1.60	1.8	24.0	3.08	1,250	55	61	989	500/D
	16	Compacted	0.7	1.2	19.0	1.60	1.8	26.0	1.91	1,000	73	79	1195	500/D
	25	Compacted	0.9	1.2	23.0	1.60	1.9	30.5	1.20	1,050	97	102	1536	500/D
	35	Compacted	0.9	1.2	25.5	1.60	2.0	33.5	0.868	900	120	123	1805	500/D
	50	Compacted	1.0	1.2	29.0	2.00	2.1	38.0	0.641	850	144	145	2405	500/D
	70	Compacted	1.1	1.2	33.5	2.00	2.3	43.0	0.443	800	181	177	3019	500/D
	95	Compacted	1.1	1.3	37.5	2.50	2.5	48.5	0.320	650	221	212	4084	500/D
	120	Compacted	1.2	1.4	42.0	2.50	2.6	53.5	0.253	650	258	242	4789	500/D
	150	Compacted	1.4	1.5	46.5	2.50	2.8	58.5	0.206	700	292	269	5610	500/D
	185	Compacted	1.6	1.6	52.5	2.50	3.0	64.5	0.164	700	336	304	6633	500/D
	240	Compacted	1.7	1.7	59.5	2.50	3.2	72.0	0.125	650	397	351	8063	300/D
	300	Compacted	1.8	1.8	65.5	3.15	3.5	80.0	0.100	600	454	394	10383	300/D
	400	Compacted	2.0	2.0	73.5	3.15	3.8	89.0	0.0778	600	524	444	12521	200/D

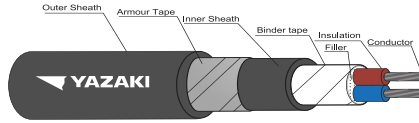
Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5387	0.2637	0.0829	1.5409
	35	1.1131	0.2567	0.0807	1.1160
	50	0.8221	0.2551	0.0801	0.8260
	70	0.5684	0.2409	0.0757	0.5734
	95	0.4109	0.2337	0.0734	0.4174
	120	0.3251	0.2325	0.0731	0.3332
	150	0.2650	0.2337	0.0734	0.2750
	185	0.2114	0.2333	0.0733	0.2237
	240	0.1618	0.2300	0.0723	0.1772
	300	0.1301	0.2278	0.0716	0.1485
	400	0.1022	0.2274	0.0714	0.1247

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

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

IEC 60502-1

**CABLE STRUCTURE**

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Armor : 2 Layers galvanized steel tape

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

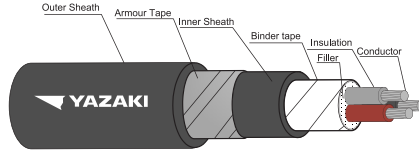
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of cores	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Inner sheath thickness approx.	Dia. of inner sheath approx.	Armor thickness nominal	Outer 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
	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(A)	(A)	(kg/km)	(m)
2	10	Compacted	0.7	1.2	14.5	0.2	1.8	19.5	3.08	1,250	63	71	492	500/D
	16	Compacted	0.7	1.2	16.0	0.2	1.8	21.5	1.91	1,000	84	93	597	500/D
	25	Compacted	0.9	1.2	19.5	0.2	1.8	25.0	1.20	1,050	111	120	780	500/D
	35	Compacted	0.9	1.2	22.0	0.2	1.8	27.0	0.868	900	136	144	911	500/D
	50	Compacted	1.0	1.2	24.5	0.2	1.9	30.0	0.641	850	164	170	1106	500/D
	70	Compacted	1.1	1.2	28.5	0.2	2.0	34.0	0.443	800	207	208	1402	500/D
	95	Compacted	1.1	1.2	31.5	0.5	2.1	38.5	0.320	650	256	250	1936	500/D
	120	Compacted	1.2	1.2	35.0	0.5	2.3	42.5	0.253	650	297	285	2319	500/D
	150	Compacted	1.4	1.3	39.0	0.5	2.4	46.0	0.206	700	337	318	2726	500/D
	185	Compacted	1.6	1.4	43.5	0.5	2.6	51.5	0.164	700	388	359	3300	500/D
	240	Compacted	1.7	1.5	49.5	0.5	2.8	57.5	0.125	650	461	417	4082	500/D
	300	Compacted	1.8	1.6	54.5	0.5	2.9	63.0	0.100	600	530	470	4821	500/D
	400	Compacted	2.0	1.7	61.0	0.5	3.2	70.5	0.0778	600	615	535	5943	500/D

Number of cores	Nominal cross sectional area	A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
	(mm²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
2	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5386	0.2637	0.0829	1.5409
	35	1.1130	0.2567	0.0807	1.1159
	50	0.8220	0.2551	0.0801	0.8259
	70	0.5683	0.2409	0.0757	0.5733
	95	0.4107	0.2337	0.0734	0.4172
	120	0.3249	0.2325	0.0731	0.3331
	150	0.2648	0.2337	0.0734	0.2748
	185	0.2111	0.2333	0.0733	0.2235
	240	0.1614	0.2300	0.0723	0.1769
	300	0.1297	0.2278	0.0716	0.1481
	400	0.1016	0.2274	0.0714	0.1242

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

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


IEC 60502-1

**CABLE STRUCTURE**

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Armor : 2 Layers galvanized steel tape

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

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

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. of inner sheath approx. (mm)	Armor thickness nominal (mm)	Outer 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	10	Compacted	0.7	1.2	15.0	0.2	1.8	20.5	3.08	1,250	53	60	549	500/D
	16	Compacted	0.7	1.2	17.0	0.2	1.8	22.5	1.91	1,000	71	78	675	500/D
	25	Compacted	0.9	1.2	21.0	0.2	1.8	26.0	1.20	1,050	95	101	873	500/D
	35	Compacted	0.9	1.2	23.5	0.2	1.8	28.5	0.868	900	116	121	1030	500/D
	50	Compacted	1.0	1.2	26.0	0.2	1.9	31.5	0.641	850	140	143	1260	500/D
	70	Compacted	1.1	1.2	30.5	0.2	2.1	36.5	0.443	800	176	176	1620	500/D
	95	Compacted	1.1	1.2	33.5	0.5	2.2	40.5	0.320	650	217	211	2248	500/D
	120	Compacted	1.2	1.3	38.0	0.5	2.4	45.5	0.253	650	252	240	2728	500/D
	150	Compacted	1.4	1.4	42.0	0.5	2.5	49.5	0.206	700	287	268	3212	500/D
	185	Compacted	1.6	1.5	47.0	0.5	2.7	55.0	0.164	700	331	304	3903	500/D
	240	Compacted	1.7	1.6	53.5	0.5	2.9	61.5	0.125	650	393	352	4832	500/D
	300	Compacted	1.8	1.7	58.5	0.5	3.1	67.5	0.100	600	451	397	5789	500/D
	400	Compacted	2.0	1.8	66.0	0.5	3.3	75.5	0.0778	600	525	453	7087	300/D

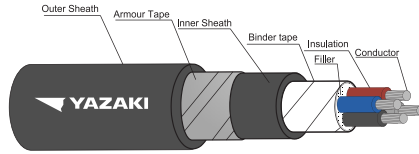
Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5387	0.2637	0.0829	1.5409
	35	1.1131	0.2567	0.0807	1.1160
	50	0.8221	0.2551	0.0801	0.8260
	70	0.5684	0.2409	0.0757	0.5734
	95	0.4109	0.2337	0.0734	0.4174
	120	0.3251	0.2325	0.0731	0.3332
	150	0.2650	0.2337	0.0734	0.2750
	185	0.2114	0.2333	0.0733	0.2237
	240	0.1618	0.2300	0.0723	0.1772
	300	0.1301	0.2278	0.0716	0.1485
	400	0.1022	0.2274	0.0714	0.1247

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

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

IEC 60502-1



CABLE STRUCTURE

Conductor : Compacted stranded hard drawn aluminium

Insulation : Cross-Linked polyethylene (XLPE)

Insulation color : Blue, Brown, Black, Grey

Filler : Non-hygroscopic material

Binder tape : Non-hygroscopic tape

Inner sheath : Black polyvinyl chloride (PVC)

Armor : 2 Layers galvanized steel tape

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

TECHNICAL DATA

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

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

AC Testing voltage : 3,500 Volts

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

APPLICATION

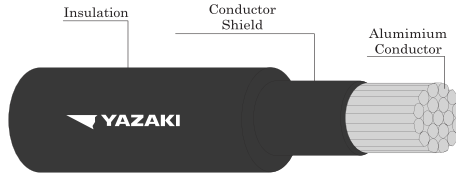
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. of inner sheath approx. (mm)	Armor thickness nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°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	10	Compacted	0.7	1.2	16.5	0.2	1.8	22.0	3.08	1,250	53	60	625	500/D
	16	Compacted	0.7	1.2	19.0	0.2	1.8	24.0	1.91	1,000	71	78	779	500/D
	25	Compacted	0.9	1.2	23.0	0.2	1.8	28.5	1.20	1,050	95	101	1032	500/D
	35	Compacted	0.9	1.2	25.5	0.2	1.9	31.0	0.868	900	116	121	1248	500/D
	50	Compacted	1.0	1.2	29.0	0.2	2.0	34.5	0.641	850	140	143	1531	500/D
	70	Compacted	1.1	1.2	33.5	0.5	2.2	40.5	0.443	800	176	176	2237	500/D
	95	Compacted	1.1	1.3	37.5	0.5	2.4	45.0	0.320	650	217	211	2790	500/D
	120	Compacted	1.2	1.4	42.0	0.5	2.5	49.5	0.253	650	252	240	3374	500/D
	150	Compacted	1.4	1.5	46.5	0.5	2.7	54.5	0.206	700	287	268	4030	500/D
	185	Compacted	1.6	1.6	52.5	0.5	2.9	61.0	0.164	700	331	304	4893	500/D
	240	Compacted	1.7	1.7	59.5	0.5	3.1	68.5	0.125	650	393	352	6094	500/D
	300	Compacted	1.8	1.8	65.5	0.5	3.3	75.0	0.100	600	451	397	7293	300/D
	400	Compacted	2.0	2.0	73.5	0.5	3.6	83.5	0.0778	600	525	453	9054	300/D

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	10	3.9489	0.2774	0.0871	3.9499
	16	2.4489	0.2619	0.0823	2.4503
	25	1.5387	0.2637	0.0829	1.5409
	35	1.1131	0.2567	0.0807	1.1160
	50	0.8221	0.2551	0.0801	0.8260
	70	0.5684	0.2409	0.0757	0.5734
	95	0.4109	0.2337	0.0734	0.4174
	120	0.3251	0.2325	0.0731	0.3332
	150	0.2650	0.2337	0.0734	0.2750
	185	0.2114	0.2333	0.0733	0.2237
	240	0.1618	0.2300	0.0723	0.1772
	300	0.1301	0.2278	0.0716	0.1485
	400	0.1022	0.2274	0.0714	0.1247

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

24KV 90°C PARTIAL INSULATED CABLE

 ICEA S-66-524
 ICEA S-93-639

CABLE STRUCTURE

- Conductor** : Compact round stranded hard drawn aluminium wires
- Conductor screen** : Semi-Conductive Cross-linked polyethylene (XLPE) compoundoss-linked
- Insulation** : Black Cross-linked polyethylene (XLPE)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 24,000 Volts
- AC Testing voltage** : 11,000 Volts
- Reference standard** : ICEA S-66-524, ICEA S-93-639

APPLICATION

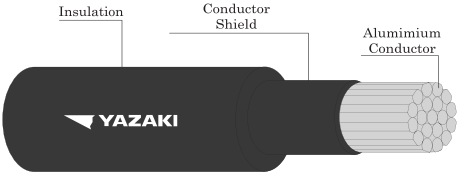
For aerial power transmission and distribution line.

Nominal cross sectional area (mm ²)	Number of wire minimum (No.)	Diameter of conductor Approx. (mm)	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 15.6°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)
35	6	7.05	1.8	12.0	0.868	900	5,591	140	170	1000/D
50	6	8.11	2.2	14.0	0.641	880	7,313	170	220	1000/D
70	12	9.73	2.1	15.0	0.443	800	10,420	215	290	1000/D
95	15	11.43	2.5	18.0	0.320	750	14,098	270	400	1000/D
120	15	13.05	2.6	19.5	0.253	700	18,518	310	490	1000/D
150	15	14.37	2.6	21.0	0.206	650	22,457	355	550	1000/D
185	30	16.08	2.55	23.0	0.164	600	28,974	410	700	1000/D

D : Packing in drum

C

33KV 90°C PARTIAL INSULATED CABLE



ICEA S-66-524
ICEA S-93-639

CABLE STRUCTURE

- Conductor** : Compact round stranded hard drawn aluminium wires
- Conductor screen** : Semi-Conductive Cross-linked polyethylene (XLPE) compound
- Insulation** : Black Cross-linked polyethylene (XLPE)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 33,000 Volts
- AC Testing voltage** : 17,000 Volts
- Reference standard** : ICEA S-66-524, ICEA S-93-639

APPLICATION

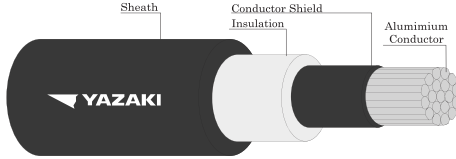
For aerial power transmission and distribution line.

Nominal cross sectional area	Number of wire minimum	Diameter of conductor Approx.	Insulation thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 15.6°C minimum	Breaking strength of conductor minimum	Continuous current rating in free air at 40°C maximum	Cable weight approx.	Standard length
(mm²)	(No.)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(N)	(A)	(kg/km)	(m)
35	6	7.05	3.0	14.5	0.868	1,350	5,591	145	220	1000/D
50	6	8.11	3.2	16.5	0.641	1,300	7,313	175	280	1000/D
70	12	9.73	3.2	18.0	0.443	1,200	10,420	220	350	1000/D
95	15	11.43	3.5	20.0	0.320	1,100	14,098	270	460	1000/D
120	15	13.05	3.6	22.0	0.253	1,000	18,518	315	550	1000/D
150	15	14.37	3.6	23.0	0.206	950	22,457	360	650	1000/D
185	30	16.08	3.9	26.0	0.164	900	28,974	415	800	1000/D

D : Packing in drum

15KV 90°C SPACED AERIAL CABLE

ICEA S-93-639



CABLE STRUCTURE

- Conductor** : Compact round stranded hard drawn aluminium wires
- Conductor screen** : Semi-Conductive Cross-linked polyethylene (XLPE) compound
- Insulation** : Cross-linked polyethylene (XLPE)
- Sheath** : Black Cross-linked polyethylene (XLPE)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 15,000 Volts
- AC Testing voltage** : 27,000 Volts
- Reference standard** : ICEA S-93-639

APPLICATION

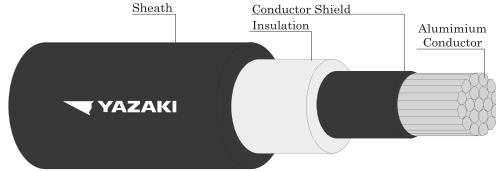
For aerial power transmission and distribution line.

Nominal cross sectional area (mm ²)	Conductor type	Diameter of conductor Approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 15.6°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)
35	Compacted	6.95	1.91	1.91	16.5	0.868	1,750	5,591	164	255	500/D
50	Compacted	8.01	1.91	1.91	18.0	0.641	1,550	7,313	198	305	500/D
70	Compacted	9.73	1.91	1.91	19.5	0.443	1,400	10,420	250	385	500/D
95	Compacted	11.40	1.91	1.91	21.5	0.320	1,250	14,098	306	477	500/D
120	Compacted	12.95	1.91	1.91	23.0	0.253	1,150	18,518	355	570	500/D
150	Compacted	14.27	1.91	1.91	24.0	0.206	1,050	22,457	405	662	500/D
185	Compacted	15.98	1.91	1.91	26.0	0.164	980	28,974	468	792	500/D
240	Compacted	18.47	1.91	1.91	28.5	0.125	850	37,506	560	988	500/D

D : Packing in drum

C

25KV 90°C SPACED AERIAL CABLE



ICEA S-93-639

 TIS 2341-2564

CABLE STRUCTURE

- Conductor** : Compact round stranded hard drawn aluminium wires
- Conductor screen** : Semi-Conductive Cross-linked polyethylene (XLPE) compound
- Insulation** : Cross-linked polyethylene (XLPE)
- Sheath** : Black Cross-linked polyethylene (XLPE)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 25,000 Volts
- AC Testing voltage** : 38,000 Volts
- Reference standard** : ICEA S-93-639, TIS 2341-2564

APPLICATION

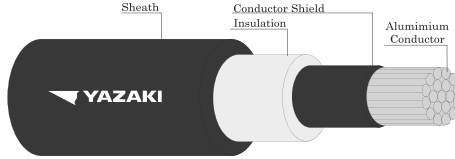
For aerial power transmission and distribution line.

Nominal cross sectional area (mm ²)	Conductor type	Diameter of conductor Approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 15.6°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)
35	Compacted	6.6 - 7.5	3.18	3.18	19.9 - 21.5	0.868	2,500	5,591	165	390	500/D
50	Compacted	7.7 - 8.6	3.18	3.18	22.0 - 24.0	0.641	2,250	7,313	199	440	500/D
70	Compacted	9.3 - 10.2	3.18	3.18	23.0 - 25.0	0.443	2,050	10,420	250	550	500/D
95	Compacted	11.0 - 12.0	3.18	3.18	25.0 - 27.0	0.320	1,850	14,098	305	650	500/D
120	Compacted	12.5 - 13.5	3.18	3.18	26.5 - 28.7	0.253	1,700	18,518	353	750	500/D
150	Compacted	13.9 - 15.0	3.18	3.18	28.0 - 30.2	0.206	1,600	22,457	402	850	500/D
185	Compacted	15.5 - 16.8	3.18	3.18	29.4 - 31.7	0.164	1,450	28,974	464	1000	500/D
240	Compacted	17.8 - 19.2	3.18	3.18	32.1 - 34.4	0.125	1,300	37,506	553	1200	500/D

D : Packing in drum

35KV 90°C SPACED AERIAL CABLE

ICEA S-93-639

 TIS 2341-2564


CABLE STRUCTURE

- Conductor** : Compact round stranded hard drawn aluminium wires
- Conductor screen** : Semi-Conductive Cross-linked polyethylene (XLPE) compound
- Insulation** : Cross-linked polyethylene (XLPE)
- Sheath** : Black Cross-linked polyethylene (XLPE)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 35,000 Volts
- AC Testing voltage** : 49,000 Volts
- Reference standard** : ICEA S-93-639, TIS 2341-2564

APPLICATION

For aerial power transmission and distribution line.

Nominal cross sectional area (mm ²)	Conductor type	Diameter of conductor Approx. (mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 15.6°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)
50	Compacted	7.7 - 8.6	4.45	3.18	26	0.641	2,500	7,313	24.2 - 26.4	550	500/D
70	Compacted	9.3 - 10.2	4.45	3.18	27	0.443	2,300	10,420	25.6 - 27.8	650	500/D
95	Compacted	11.0 - 12.0	4.45	3.18	29	0.320	2,100	14,098	27.3 - 29.5	750	500/D
120	Compacted	12.5 - 13.5	4.45	3.18	31	0.253	1,950	18,518	28.8 - 31.0	850	500/D
150	Compacted	13.9 - 15.0	4.45	3.18	32	0.206	1,800	22,457	30.2 - 32.5	950	500/D
185	Compacted	15.5 - 16.8	4.45	3.18	34	0.164	1,690	28,974	32.0 - 34.4	1100	500/D
240	Compacted	17.8 - 19.2	4.45	3.18	36	0.125	1,500	37,506	34.0 - 36.8	1300	500/D

D : Packing in drum

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ALL ALUMINIUM STRANDED CONDUCTOR

 TIS 85-2548


CABLE STRUCTURE

Conductor : Concentric stranded hard drawn aluminium wires

TECHNICAL DATA

Reference standard : TIS 85-2548

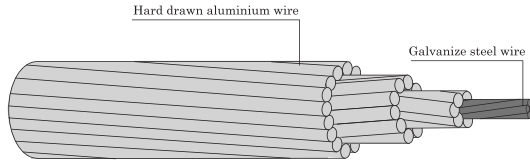
APPLICATION

For overhead transmission and distribution line.

Nominal cross sectional area	Number and diameter of wires	Conductor diameter approx.	Conductor resistance at 20°C maximum	Breaking strength	Continuous current rating in free air at 40°C maximum	Cable weight approx.	Standard length
(mm ²)	(No./mm)	(mm)	(Ω/km)	(kgf)	(A)	(kg/km)	(m)
10	7/1.35	4.05	2.8633	199	-	27	3000/D
16	7/1.71	5.13	1.7896	310	110	44	3000/D
25	7/2.13	6.42	1.1453	459	145	69	3000/D
35	7/2.52	7.56	0.8200	585	180	95	3000/D
40	7/2.70	8.10	0.7158	694	-	109	3000/D
50	7/3.02	9.06	0.5710	805	225	137	3000/D
50	19/1.83	9.15	0.5758	890	225	140	3000/D
63	7/3.39	10.17	0.4545	1060	-	173	3000/D
70	19/2.15	10.75	0.4171	1205	270	189	3000/D
95	19/2.52	12.60	0.3036	1585	340	259	3000/D
100	19/2.59	12.95	0.2877	1733	-	274	3000/D
120	19/2.85	14.25	0.2374	1980	390	332	3000/D
125	19/2.89	14.45	0.2302	2167	-	341	3000/D
150	37/2.25	15.75	0.1960	2570	455	404	3000/D
160	19/3.27	16.35	0.1798	2692	-	437	3000/D
185	37/2.52	17.64	0.1563	3085	550	507	3000/D
200	19/3.66	18.30	0.1439	3262	-	547	3000/D
240	61/2.25	20.25	0.1192	4015	625	670	3000/D
250	19/4.09	20.45	0.1151	4078	-	683	3000/D
300	61/2.52	22.68	0.0950	4820	710	841	3000/D
315	37/3.29	23.03	0.0916	5298	-	864	3000/D
400	61/2.85	25.65	0.0743	6025	855	1075	3000/D
450	37/3.94	27.58	0.0641	3740	-	1240	3000/D
500	61/3.25	29.25	0.0571	7695	990	1399	3000/D
560	37/4.39	30.73	0.0515	9134	-	1539	2000/D
625	91/2.96	32.56	0.0463	9694	1140	1735	2000/D
630	61/3.63	32.60	0.0458	10276	-	1745	2000/D
710	61/3.85	34.60	0.0407	11580	-	1963	2000/D

D : Packing in drum

ALL ALUMINIUM CONDUCTOR STEEL REINFORCED

 TIS 85-2548


CABLE STRUCTURE

Conductor : Hard drawn aluminium wire

Reference standard : TIS 85-2548

Steel Core : Galvanized steel (Zinc coated), solid and concentric stranded

APPLICATION

For overhead transmission and distribution line.

Nominal cross sectional area (mm ²)	Aluminium Number and approx. diameter of wires (No./mm)	Steel wire Number and approx. diameter of wires (No./mm)	Overall conductor diameter approx. (mm)	Conductor re- sistance at 20°C maximum (Ω/km)	Breaking strength (kgf)	Continuous current rating in free air at 40°C maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
16/2.67	6/1.84	1/1.84	5.53	1.7934	620	-	65	4000/D
25/4.17	6/2.30	1/2.30	6.91	1.1478	931	-	100	4000/D
35/6.00	6/2.70	1/2.70	8.10	0.8352	1265	145	138	3000/D
40/6.67	6/2.91	1/2.91	8.47	0.7174	1468	-	161	3000/D
50/8.00	6/3.20	1/3.20	9.60	0.5945	1716	170	195	3000/D
50/30.0	12/2.33	7/2.33	11.70	0.5644	4380	170	376	3000/D
63/10.5	6/3.66	1/3.66	11.00	0.4555	2205	-	255	3000/D
70/12.0	26/1.85	7/1.44	11.70	0.4131	2676	290	283	3000/D
95/15.0	26/2.15	7/1.67	13.60	0.3058	3565	350	382	3000/D
95/55.0	12/3.20	7/3.20	16.00	0.2992	7965	350	710	3000/D
100/16.7	6/4.61	1/4.61	13.80	0.2869	3500	-	405	3000/D
120/20.0	26/2.44	7/1.90	15.50	0.2374	4555	410	493	2000/D
120/70.0	12/3.60	7/3.60	18.00	0.2364	10034	410	899	2000/D
125/6.94	18/2.97	1/2.97	14.90	0.2304	2974	-	397	2000/D
125/20.4	26/2.47	7/1.92	15.70	0.2310	4658	-	504	2000/D
125/30.0	30/2.33	7/2.33	16.10	0.2259	5759	425	590	2000/D
150/25.0	26/2.70	7/2.10	17.10	0.1939	5513	470	603	2000/D
160/8.89	18/3.36	1/3.36	16.80	0.1800	3688	-	508	2000/D
160/26.1	26/2.80	7/2.18	17.70	0.1805	5881	-	649	2000/D
170/40.0	30/2.70	7/2.70	18.90	0.1682	7675	520	793	1500/D
185/30.0	26/3.00	7/2.33	19.00	0.1571	6618	535	744	1500/D
200/11.1	18/3.76	1/3.76	18.80	0.1440	4508	-	637	1500/D
200/32.6	26/3.13	7/2.43	19.80	0.1444	7149	-	810	1500/D
210/35.0	26/3.20	7/2.49	20.30	0.1381	7489	590	848	1500/D
210/50.0	30/3.00	7/3.00	21.00	0.1383	9390	610	979	1500/D
230/30.0	24/3.50	7/2.33	21.00	0.1250	7313	630	874	1500/D
240/40.0	26/3.45	7/2.68	21.90	0.1188	8640	645	984	1500/D
250/24.6	22/3.80	7/2.11	21.60	0.1064	7005	-	882	1500/D
250/40.7	26/3.50	7/2.72	22.20	0.1155	8937	-	1013	1500/D
265/35.0	24/3.74	7/2.49	22.40	0.1095	8307	680	998	1500/D
300/50.0	26/3.86	7/3.00	24.50	0.0949	10702	740	1233	1000/D
305/40.0	54/2.68	7/2.68	24.10	0.0949	9942	740	1158	1000/D
315/21.8	45/2.99	7/1.99	23.90	0.0917	8056	-	1052	1000/D
315/51.3	26/3.93	7/3.05	24.90	0.0917	10890	-	1277	1000/D
380/50.0	54/3.00	7/3.00	27.00	0.0758	12312	840	1451	1000/D
400/27.7	45/3.36	7/2.24	26.90	0.0722	10027	-	1322	1000/D
400/51.9	54/3.07	7/3.07	27.60	0.0723	12543	-	1519	1000/D
435/55.0	54/3.20	7/3.20	28.80	0.0666	13673	900	1651	1000/D
450/31.1	45/3.57	7/2.38	28.50	0.0642	10956	-	1493	1000/D
450/58.3	54/3.26	7/3.26	29.30	0.0643	14110	-	1713	1000/D
490/65.0	54/3.40	7/3.40	30.60	0.0590	15343	960	1864	1000/D
500/34.6	45/3.76	7/2.51	30.10	0.0578	12173	-	1656	1000/D
500/64.8	54/3.43	7/3.43	30.90	0.0578	15678	-	1897	1000/D
550/70.0	54/3.60	7/3.60	32.40	0.0526	17096	1020	2089	500/D
560/38.7	45/3.98	7/2.65	31.80	0.0516	13633	-	1854	500/D
560/70.9	54/3.63	19/2.18	32.70	0.0516	17594	-	2112	500/D
630/43.6	45/4.22	7/2.81	33.80	0.0459	15337	-	2085	500/D
630/79.8	54/3.85	19/2.31	34.70	0.0459	19549	-	2384	500/D
680/85.0	54/4.00	19/2.40	36.00	0.0426	21040	1150	2564	500/D
710/49.1	45/4.48	7/2.99	35.90	0.0407	17285	-	2352	500/D
710/89.9	54/4.09	19/2.45	36.80	0.0407	22031	-	2678	500/D

D : Packing in drum