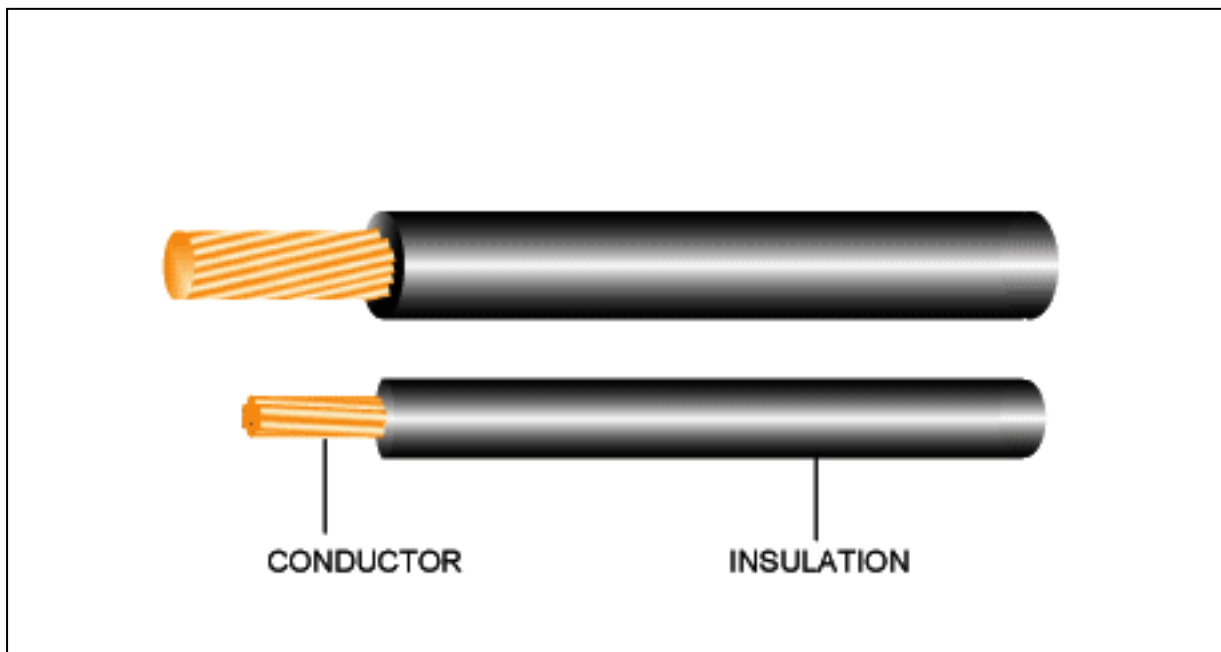

THW, MEA TYPE A

750 V 70 °C PVC INSULATED, SINGLE CORE



CABLE STRUCTURE

CONDUCTOR	: Solid and stranded annealed copper, Sizes 0.5 mm ² up to 500 mm ²
INSULATION	: PVC, Any color
CLASSIFICATION	: Maximum conductor temperature 70 °C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	: 2,500 volts
REFERENCE	: TIS 11-2531, Table 4



THW, MEA TYPE A

TIS 11-2531

TABLE 4

Nominal Cross Section area (mm ²)	Number and diameter of wire (No./mm)	Insulation Thickness (mm)	Max. Overall diameter (mm)	Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
0.5	1 / 0.80	0.8	3.0	0.0175	9	11	100/C
1	1 / 1.13	0.8	3.3	0.0141	13	17	100/C
1	7 / 0.43	0.8	3.5	0.0135	13	18	100/C
1.5	1 / 1.38	0.8	3.6	0.0123	17	22	100/C
1.5	7 / 0.53	0.8	3.8	0.0116	17	24	100/C
2.5	1 / 1.78	0.8	4.0	0.0102	23	32	100/C
2.5	7 / 0.67	0.8	4.3	0.0093	23	35	100/C
4	1 / 2.25	0.9	4.8	0.0094	32	49	100/C
4	7 / 0.85	0.9	5.2	0.0085	32	50	100/C
6	7 / 1.04	0.9	5.8	0.0073	43	75	100/C
10	7 / 1.35	1.1	7.2	0.0069	60	120	100/C
16	7 / 1.70	1.1	8.4	0.0057	83	180	100/C
25	7 / 2.14	1.3	10.5	0.0054	114	280	100/C
35	19 / 1.53	1.3	11.5	0.0047	141	380	100/C
50	19 / 1.78	1.5	13.5	0.0046	175	500	500/D
70	19 / 2.14	1.5	15.5	0.0039	221	700	500/D
95	19 / 2.52	1.7	18.0	0.0038	275	1,000	500/D
120	37 / 2.03	1.7	19.5	0.0034	321	1,200	500/D
150	37 / 2.25	1.9	21.5	0.0034	367	1,500	500/D
185	37 / 2.52	2.1	24.0	0.0034	424	1,900	500/D
240	61 / 2.25	2.3	27.0	0.0033	505	2,500	500/D
300	61 / 2.52	2.5	30.0	0.0032	581	3,100	500/D
400	61 / 2.85	2.7	33.5	0.0030	675	3,900	500/D
500	61 / 3.20	3.1	38.5	0.0031	781	5,000	500/D

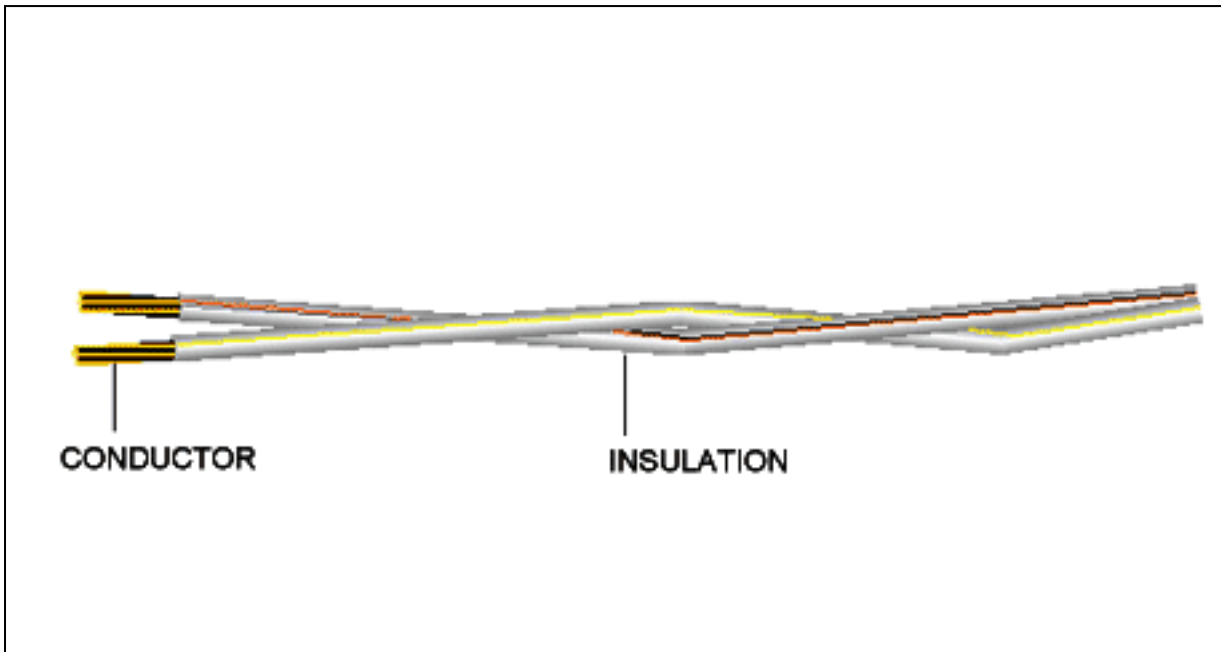
C: Packing in coil.

D: Packing in drum.



VTF

300 V 70° C PVC INSULATED TWISTED, FLEXIBLE CONDUCTOR



CABLE STRUCTURE

NUMBER OF CORE CONDUCTOR	: 2 up to 5 cores, twisted together : Flexible annealed copper wire, : Sizes. 0.5 mm ² up to 2.5 mm ²
INSULATION	: PVC Color : Single core shall be light gray, others shall be light gray as base color with color tracer or color threads laid with conductor Black, Red, Blue : For 5 cores shall be plus one core Green/Yellow or Yellow/ Green color
CLASSIFICATION	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 Volts
REFERENCE	: TIS 11-2531, Table 10

VTF

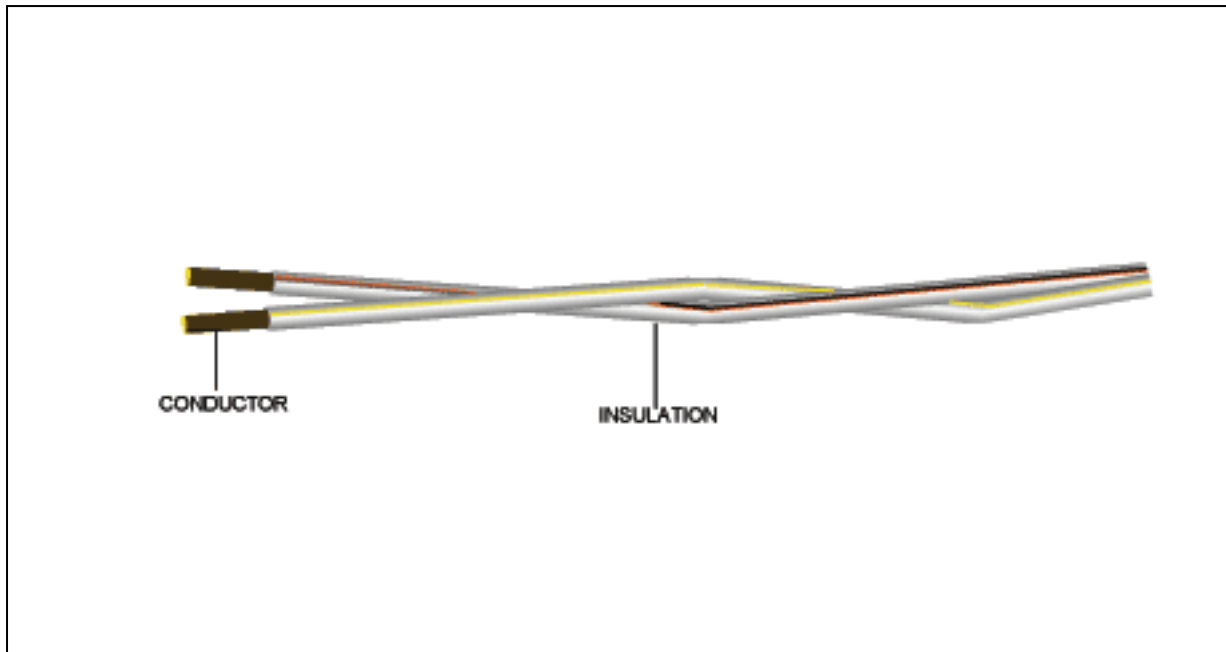
TIS 11-2531
TABLE 10

Number Of core	Nominal Cross Sectional area (mm ²)	Number and diameter of wire	Insulation Thickness (mm)	Max. Overall diameter (mm)	Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
2	0.5	16/0.20	0.8	3.2	0.0160	7	23	100/C
	0.5	28/0.15	0.8	3.2	0.0160	7	23	100/C
	0.75	24/0.20	0.8	3.4	0.0140	10	29	100/C
	0.75	42/0.15	0.8	3.4	0.0140	10	29	100/C
	1	32/0.20	0.8	3.6	0.0127	11	34	100/C
	1.5	30/0.25	0.8	3.9	0.0111	15	45	100/C
	2.5	50/0.25	0.8	4.8	0.0092	20	65	100/C

C: PACKING IN COIL.

VSF

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



CABLE STRUCTURE

CONDUCTOR	: Flexible stranded annealed copper wire, Sizes. 0.5 mm ² up to 2.5 mm ²
INSULATION	: PVC- Any color
CLASSIFICATION	: Maximum conductor temperature 70°C Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 Volts
REFERENCE	: TIS 11-2531, Table 10

VSF

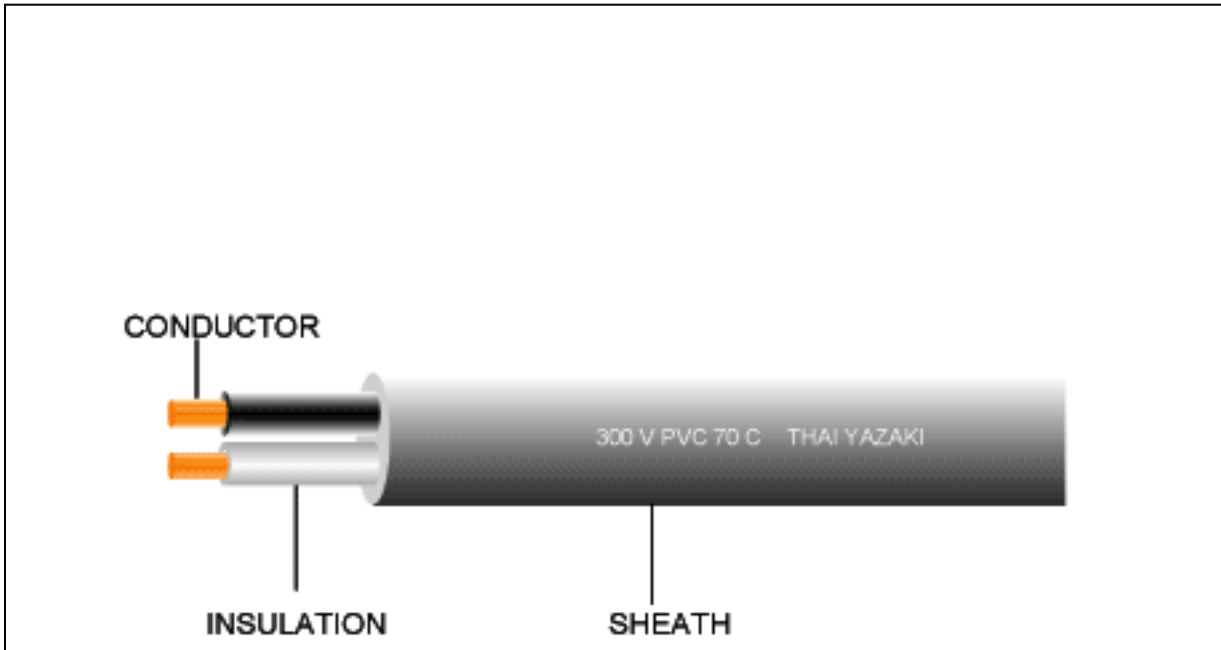
TIS 11-2531
TABLE 10

Number of core	Nominal Cross Sectional area (mm ²)	Number and diameter of wire	Insulation Thickness (mm)	Max. Overall diameter (mm)	Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
1	0.5	16/0.20	0.8	3.2	0.0160	9	12	100/C
	0.5	28/0.15	0.8	3.2	0.0160	9	11	100/C
	0.75	24/0.20	0.8	3.4	0.0140	11	15	100/C
	0.75	42/0.15	0.8	3.4	0.0140	11	14	100/C
	1	32/0.20	0.8	3.6	0.0127	14	17	100/C
	1.5	30/0.25	0.8	3.9	0.0111	18	22	100/C
	2.5	50/0.25	0.8	4.8	0.0092	24	33	100/C

C: PACKING IN COIL.

VKF

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



CABLE STRUCTURE

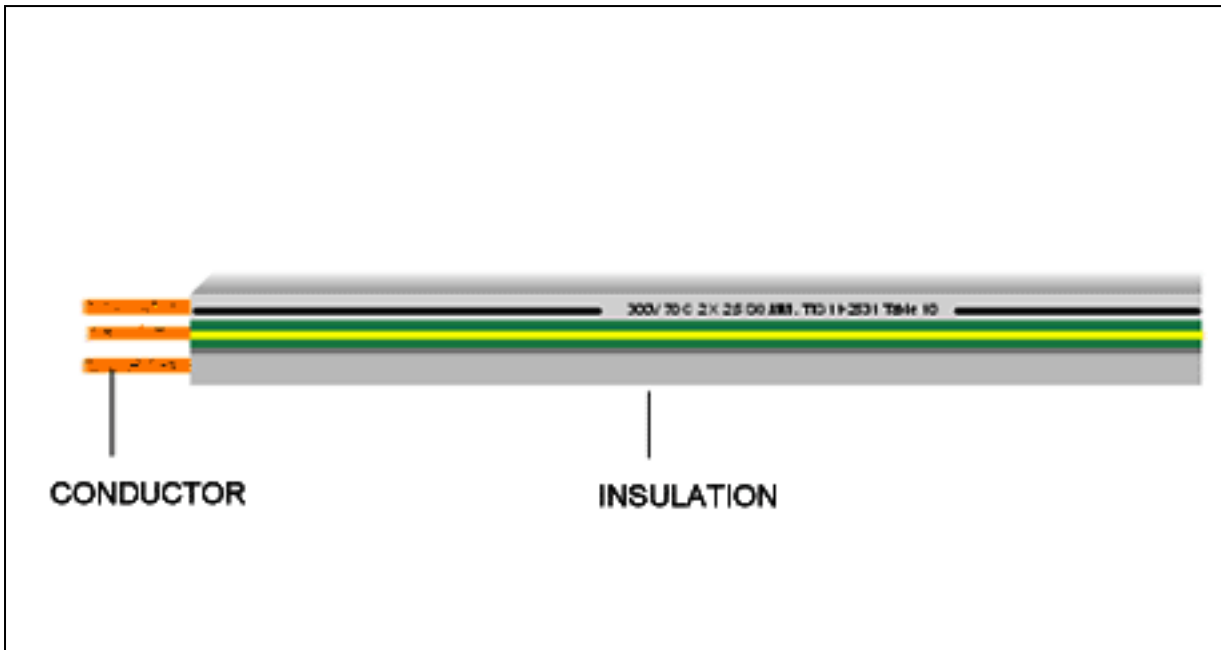
NUMBER OF CORE CONDUCTOR	: 2 cores : Flexible annealed copper wires : Sizes. 0.5 mm ² up to 35 mm ²
INSULATION	: PVC : Color : Light gray, Black
SHEATH	: PVC : Color : Black or White
CLASSIFICATION	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 Volts
REFERENCE	: TIS 11-2531, Table 17

Number Of core	Nominal cross sectional area (mm ²)	Number and diameter of wire (No/mm)	Insulation thickness (mm)	Sheath Thickness (mm)	Overall diameter (mm)		Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard Length (m)
					Lower limit	Upper limit				
					2	0.5				
	0.5	28/0.15	0.6	0.9	3.8x5.8	4.7x7.2	0.0133	8	38	100/C
	1	32/0.20	0.6	0.9	4.1x6.6	5.2x8.0	0.0104	11	50	100/C
	1.5	30/0.25	0.6	1.2	5.0x7.6	6.2x9.4	0.0090	15	75	100/C
	2.5	50/0.25	0.7	1.2	5.6x9.0	7.2x11.5	0.0083	20	110	100/C
	4	56/0.30	0.8	1.2	6.4x10.0	8.0x13.0	0.0073	27	150	100/C
	6	84/0.30	0.8	1.2	6.8x11.5	8.8x14.5	0.0065	36	210	100/C
	10	84/0.40	0.9	1.2	8.0x13.5	10.5x17.5	0.0057	50	330	100/C
	16	126/0.40	1.0	1.2	9.8x17.5	12.0x20.5	0.0047	67	460	100/C
	25	196/0.40	1.2	1.4	12.0x21.5	14.5x25.0	0.0045	80	700	500/D
	35	280/0.40	1.2	1.4	13.5x24.0	16.0x28.0	0.0038	111	950	500/D

TISI PERMITTED TO INCREASE THE MAXIMUM OVERALL DIAMETER BY 5%
 C : PACKING IN COIL.
 D : PACKING IN DRUM.

VFF-GRD

300 V 70° C PVC INSULATED FLAT TYPE CONDUCTOR WITH GROUND



CABLE STRUCTURE

NUMBER OF CORE CONDUCTOR	: 2 conductors with safety ground : Flexible annealed copper wires : Sizes. 1 mm ² up to 2.5 mm ² : Ground conductor 1 mm ² up to 1.5 mm ²
INSULATION	: PVC : Color : Any color with one different color tracer on lateral side of wire, or color thread at one of conductors
CLASSIFICATION	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 Volts
REFERENCE	: TIS 11-2531, Table 16

VFF-GRD

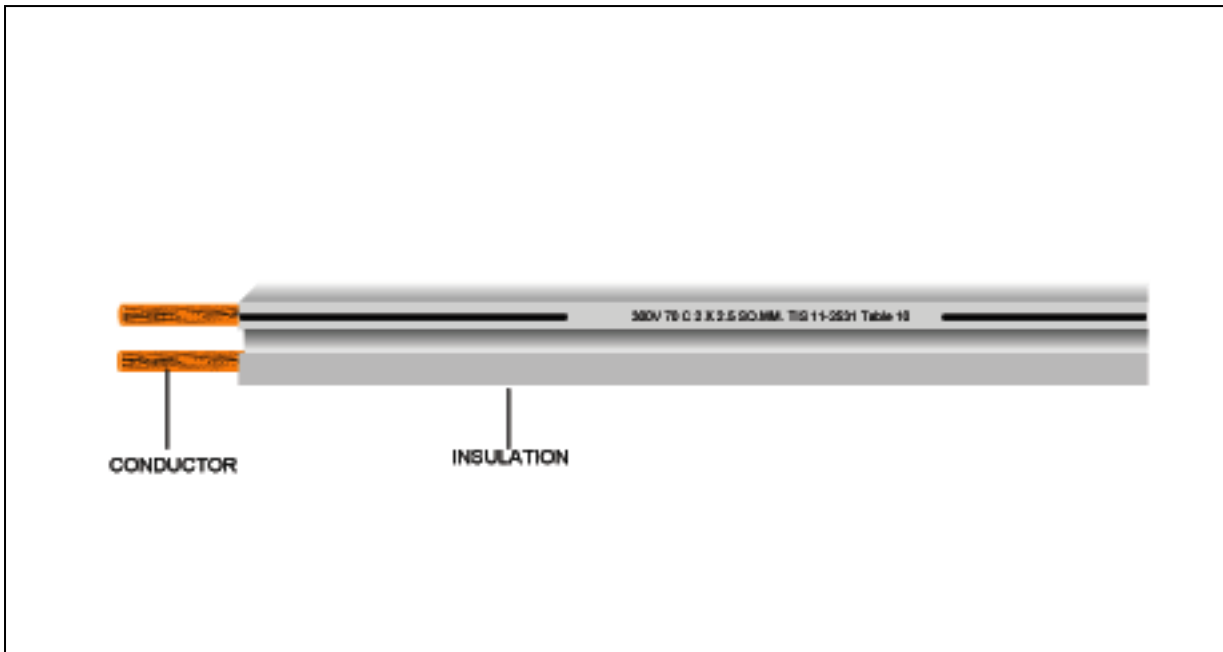
TIS 11-2531
TABLE 16

Nominal Cross Sectional area (mm ²)	Number and diameter of wire (No/mm)	Insulation Thickness (mm)	Nominal Cross sectional area of ground Conductor (mm ²)	Thickness Of ground insulator (mm)	Overall diameter (mm)		Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard Length (m)
					Lower limit	Upper limit				
1	30/0.20	0.8	1	0.6	2.8x8.0	3.6x9.8	0.0127	12	50	500/C
1.5	30/0.25	0.8	1	0.6	3.0x8.6	3.9x10.5	0.0111	15	60	500/C
2.5	50/0.25	0.8	1.5	0.6	3.5x9.6	4.8x12.5	0.0092	21	90	500/C

C : PACKING IN COIL.

VFF

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



CABLE STRUCTURE

NUMBER OF CORE CONDUCTOR	: 2 conductors
INSULATION	: Flexible annealed copper wire, Sizes. 0.5 mm ² up to 2.5 mm ²
CLASSIFICATION	: PVC color : Any color with one different color tracer on lateral side of wire, or color thread at one of conductors
TESTING VOLTAGE	: Maximum conductor temperature 70°C Circuit voltage not exceeding 300 volts
REFERENCE	: 2,000 Volts : TIS 11-2531, Table 10

VFF

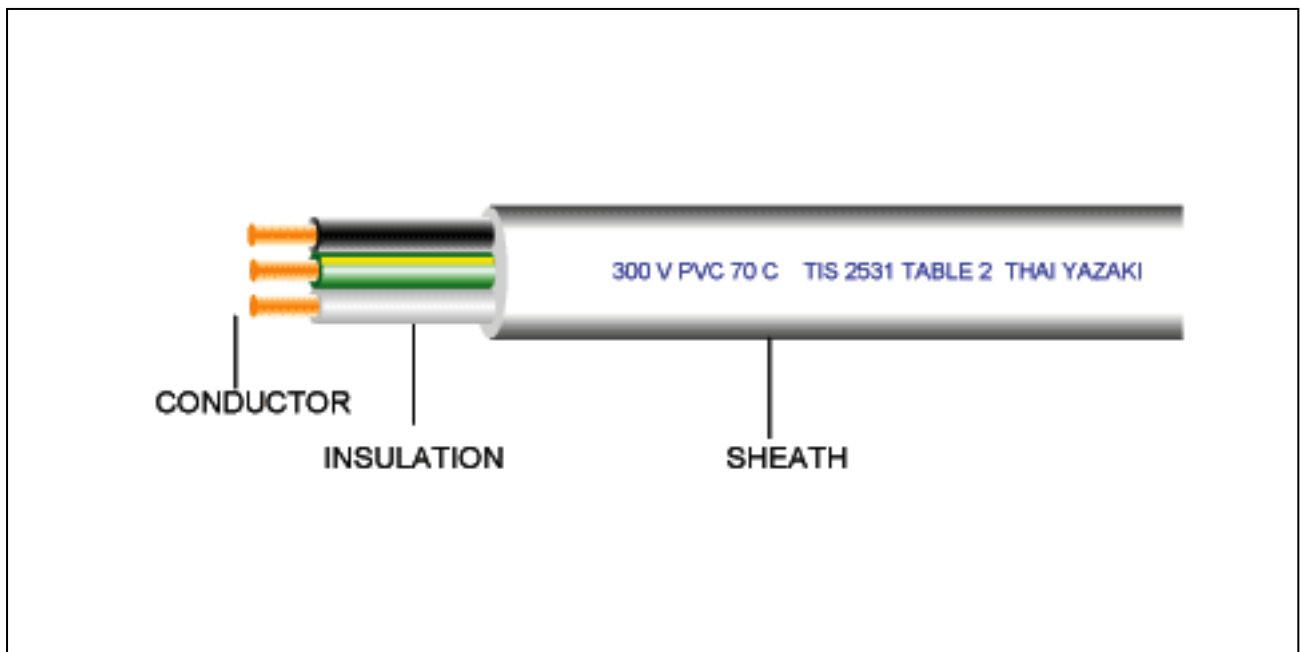
TIS 11-2531
TABLE 10

Number of core	Nominal cross Sectional area (mm ²)	Number and diameter of wire	Insulation thickness (mm)	Overall diameter (mm)		Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
				Lower limit	Upper limit				
2	0.5	16/0.20	0.8	2.4x4.9	3.2x6.2	0.0160	8	23	100/C
	0.5	28/0.15	0.8	2.4x4.8	3.2x6.2	0.0160	8	23	100/C
	0.75	24/0.20	0.8	2.6x5.2	3.4x6.6	0.0140	10	29	100/C
	0.75	42/0.15	0.8	2.6x5.2	3.4x6.6	0.0140	10	29	100/C
	1	32/0.20	0.8	2.8x5.6	3.6x7.0	0.0127	12	35	100/C
	1.5	30/0.25	0.8	3.0x6.0	3.9x7.6	0.0111	15	46	100/C
	2.5	50/0.25	0.8	3.5x7.0	4.8x9.4	0.0092	21	68	100/C

C : PACKING IN COIL.

VAF-GRD

300 V 70 °C PVC INSULATED AND SHEATHED FLAT TYPE, WITH GROUND



CABLE STRUCTURE

NUMBER OF CORE CONDUCTOR	: 2-3 cores with safety-ground : Solid and stranded annealed copper, sizes 1 mm ² up to 35 mm ²
GROUND WIRE INSULATION	: Ground conductor size 1 mm ² up 10 mm ² : PVC Color: 2 core-Light grey and Black 3 core-Light grey, Black and Red Ground core-Green/Yellow
SHEATH	: PVC Color: White
CLASSIFICATION	: Maximum conductor temperature 70 °C Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 volts
REFERENCE	: TIS 11-2531, Table 11

VAF-GRD

TIS 11-2531
TABLE 11

Number of core	Nominal cross sectional area (mm ²)	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Nominal cross sectional area of ground conductor (mm ²)	Ground insulation thickness (mm)	Sheath thickness (mm)	Overall diameter (mm) Approx.		Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
							Lower limit	Upper limit				
2	1	7/ 1.13	0.6	1	0.6	0.9	4.0X8.4	4.8X10.0	0.0115	11	75	100/C
	1	1/ 0.43	0.6	1	0.6	0.9	4.0X8.6	5.0X10.5	0.0110	11	80	100/C
	1.5	1/ 1.38	0.6	1	0.6	1.2	4.8X9.4	5.8X11.5	0.0100	15	100	100/C
	1.5	7/ 0.53	0.6	1	0.6	1.2	4.9X9.8	6.0X12.0	0.0094	15	110	100/C
	2.5	1/ 1.78	0.7	1.5	0.6	1.2	5.4X10.5	6.4X13.0	0.0092	20	140	100/C
	2.5	7/ 0.67	0.7	1.5	0.6	1.2	5.6X11.5	6.8X14.0	0.0084	20	140	100/C
	4	1/ 2.25	0.8	2.5	0.6	1.2	6.0X12.5	7.2X15.0	0.0086	27	190	100/C
	4	7/ 0.85	0.8	2.5	0.6	1.2	6.2X13.0	7.6X16.0	0.0078	27	210	100/C
	6	7/ 1.04	0.8	4	0.6	1.2	6.8X15.0	8.2X17.5	0.0066	35	270	100/C
	10	7/ 1.35	1.0	4	0.6	1.2	8.0X17.0	9.4X20.0	0.0059	49	380	100/C
	16	7/ 1.70	1.0	6	0.6	1.2	9.2X20.0	11.0X23.0	0.0053	65	550	100/C
	25	7/ 2.14	1.2	6	0.6	1.4	11.0X24.0	13.0X27.0	0.0051	88	800	500/D
	35	19/ 1.53	1.2	10	0.6	1.4	12.0X27.0	14.5X31.	0.0043	109	1,100	500/D

TISI Permitted to increase the maximum overall diameter by 5 %

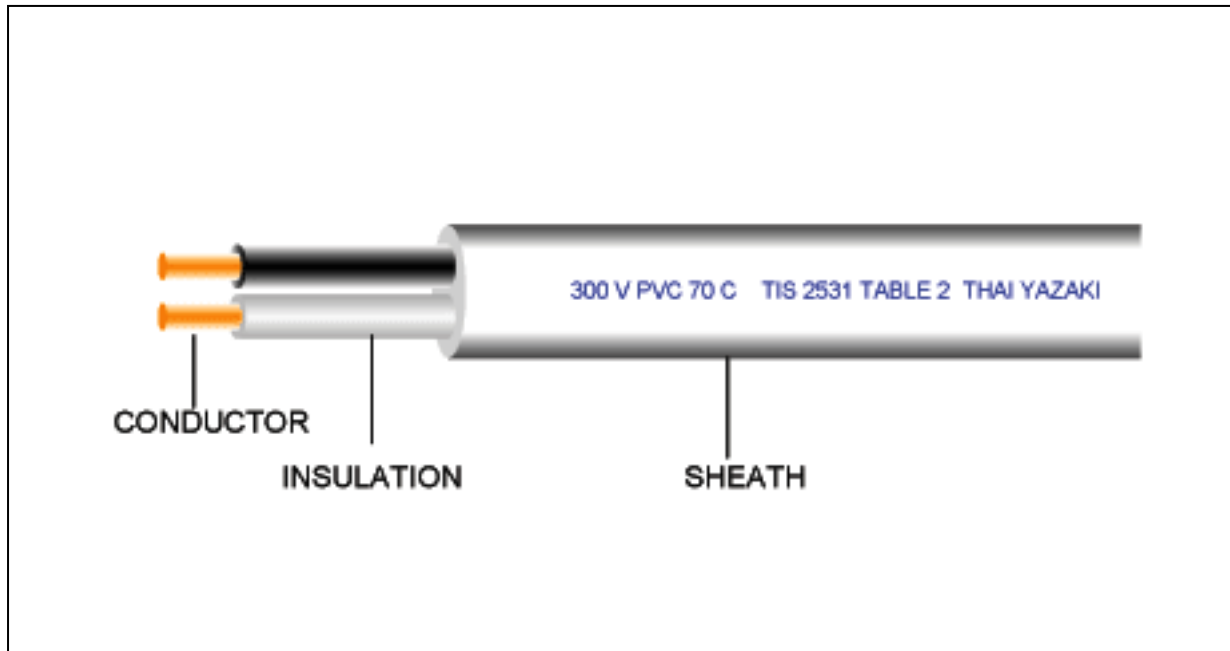
C: Packing in coil.

D: Packing in drum.



VAF

300 V 70 °C PVC INSULATED AND SHEATHED FLAT TYPE



CABLE STRUCTURE

NUMBER OF CORE CONDUCTOR	: 2-3 cores : Solid and stranded annealed copper : Sizes 0.5 mm ² up to 35 mm ² for 2-core and up to 16 mm ² for 3-cores
INSULATION	: PVC : Color: 2 core-Light grey, Black : 3 core-Light grey, Black, Red
SHEATH	: PVC : Color: White
CLASSIFICATION	: Maximum conductor temperature 70 °C : Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 volts
REFERENCE	: TIS 11-2531, Table 2



VAF

**TIS 11-2531
TABLE 2**

Number of core	Nominal cross section area (mm ²)	Number and diameter of wire (No./mm)	Insulation Thickness (mm)	Sheath Thickness (mm)	Approx. overall Diameter (mm)		Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
					Lower limit	Upper limit				
2	0.5	1 / 0.80	0.6	0.9	3.6X5.6	4.4X6.8	0.0146	7	38	100/C
	1	1 / 1.13	0.6	0.9	4.0X6.2	4.8X7.4	0.0115	11	50	100/C
	1	7 / 0.43	0.6	0.9	4.0X6.4	5.0X7.8	0.0110	11	55	100/C
	1.5	1 / 1.38	0.6	1.2	4.8X7.2	5.8X8.6	0.0100	15	75	100/C
	1.5	7 / 0.53	0.6	1.2	4.9X7.4	6.0X9.2	0.0094	15	80	100/C
	2.5	1 / 1.78	0.7	1.2	5.4X8.4	6.4X10.0	0.0092	20	100	100/C
	2.5	7 / 0.67	0.7	1.2	5.6X8.8	6.8X10.5	0.0084	20	110	100/C
	4	1 / 2.25	0.8	1.2	6.0X9.8	7.2X11.5	0.0086	27	150	100/C
	4	7 / 0.85	0.8	1.2	6.2X10.0	7.6X12.0	0.0078	27	150	100/C
	6	7 / 1.04	0.8	1.2	6.8X11.0	8.2X13.5	0.0066	35	200	100/C
	10	7 / 1.35	0.9	1.2	8.0X13.0	9.4X16.0	0.0059	49	310	100/C
	16	7 / 1.70	1.0	1.2	9.2X16.0	11.0X18.5	0.0053	65	450	100/C
	25	7 / 2.14	1.2	1.4	11.0X19.5	13.0X22.5	0.0051	88	700	500/D
	35	19 / 1.53	1.2	1.4	12.0X22.0	14.5X25.0	0.0043	109	900	500/D
3	0.5	1 / 0.80	0.6	0.9	3.6X7.4	4.4X9.0	0.0146	6	55	100/C
	1	1 / 1.13	0.6	0.9	4.0X8.4	4.8X10.0	0.0115	9	75	100/C
	1	7 / 0.43	0.6	0.9	4.0X8.6	5.0X10.5	0.0110	9	80	100/C
	1.5	1 / 1.38	0.6	1.2	4.8X9.8	5.8X11.5	0.0100	12	100	100/C
	1.5	7 / 0.53	0.6	1.2	4.9X10.0	6.0X12.5	0.0094	12	110	100/C
	2.5	1 / 1.78	0.7	1.2	5.4X11.5	6.4X13.5	0.0092	16	150	100/C
	2.5	7 / 0.67	0.7	1.2	5.6X12.0	6.8X14.5	0.0084	16	160	100/C
	4	1 / 2.25	0.8	1.2	6.0X13.0	7.2X16.0	0.0086	22	210	100/C
	4	7 / 0.85	0.8	1.2	6.2X14.0	7.6X16.5	0.0078	22	230	100/C
	6	7 / 1.04	0.8	1.2	6.8X16.0	8.2X18.5	0.0066	29	300	100/C
	10	7 / 1.35	0.9	1.2	8.0X19.0	9.4X22.0	0.0059	40	450	500/D
	16	7 / 1.70	1.0	1.4	9.6X23.0	11.5X26.5	0.0053	53	700	500/D

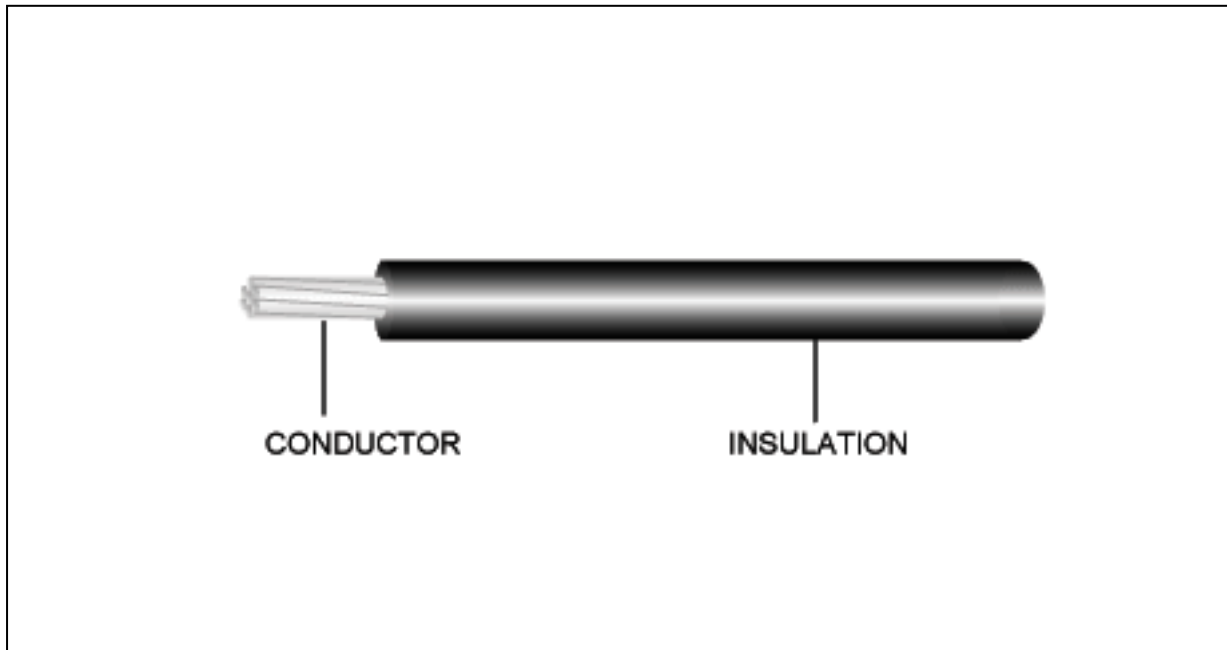
TISI Permitted to increase the maximum overall diameter by 5 %

C: Packing in coil.

D: Packing in drum.

THWA-C

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



CABLE STRUCTURE

CONDUCTOR	: Compact stranded hard drawn aluminium wires Sizes 10 mm ² up to 500 mm ²
INSULATION	: PVC Color: Black
CLASSIFICATION	: Maximum conductor temperature 70°C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	: 2,500 volts
REFERENCE	: TIS 293-2541, Table 2

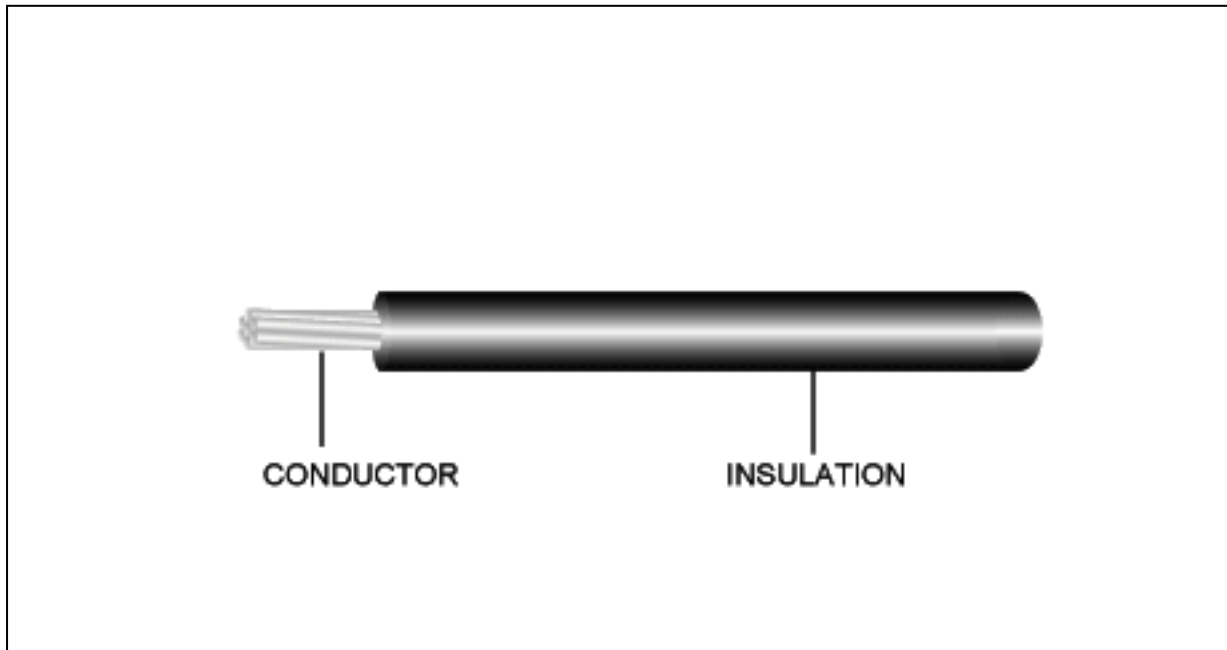
THWA-C

TIS 293-2541
TABLE 2

Nominal Cross Sectional area (mm ²)	Actual Cross Sectional Area (mm)	Number Of wire (Min)	Compact Conductor Diameter Approx. (mm)	Insulation thickness (mm)	Approx. Overall diameter (mm)	Maximum Conductor Resistance at 20 °C (Ω-Km)	Breaking Strength Of conductor (N)	Maximum continuous current rating in free air (Ampere)	Cable Weight (approx.) (Kg/Km)	Standard length (m)
10	9.64	6	3.65	1.1	6.2	3.08	1,768	51	50	500/C
16	15.55	6	4.64	1.1	7.2	1.91	2,734	68	70	500/C
25	24.75	6	5.85	1.3	8.8	1.20	4,120	91	110	300/C
35	34.21	6	6.88	1.3	9.8	0.868	5,591	111	150	300/C
50	46.32	6	8.01	1.5	11.5	0.641	7,313	133	200	200/C
70	67.03	12	9.63	1.5	13.0	0.443	10,420	167	270	100/C
95	92.79	15	11.33	1.7	15.5	0.320	14,098	210	370	100/C
120	117.37	15	12.75	1.7	16.5	0.253	18,518	248	450	100/C
150	144.15	15	14.13	1.9	18.5	0.206	22,457	287	550	500/D
185	181.06	30	15.83	2.1	21.0	0.164	28,974	337	700	500/D
240	237.55	30	18.28	2.3	24.0	0.125	37,506	410	900	500/D
300	296.94	30	20.43	2.5	26.0	0.100	45,642	479	1,100	500/D
400	381.67	53	23.17	2.7	29.0	0.0778	56,992	571	1,400	500/D
500	490.81	53	26.27	3.1	33.0	0.0605	72,195	680	1,800	500/D

THWA

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



CABLE STRUCTURE

CONDUCTOR	: Solid hard and stranded hard drawn aluminum wires, Sizes 10 mm ² up to 500 mm ²
INSULATION	: PVC Color: Black
CLASSIFICATION	: Maximum conductor temperature 70°C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	: 2,500 volts
REFERENCE	: TIS 293-2541, Table 1

THWA

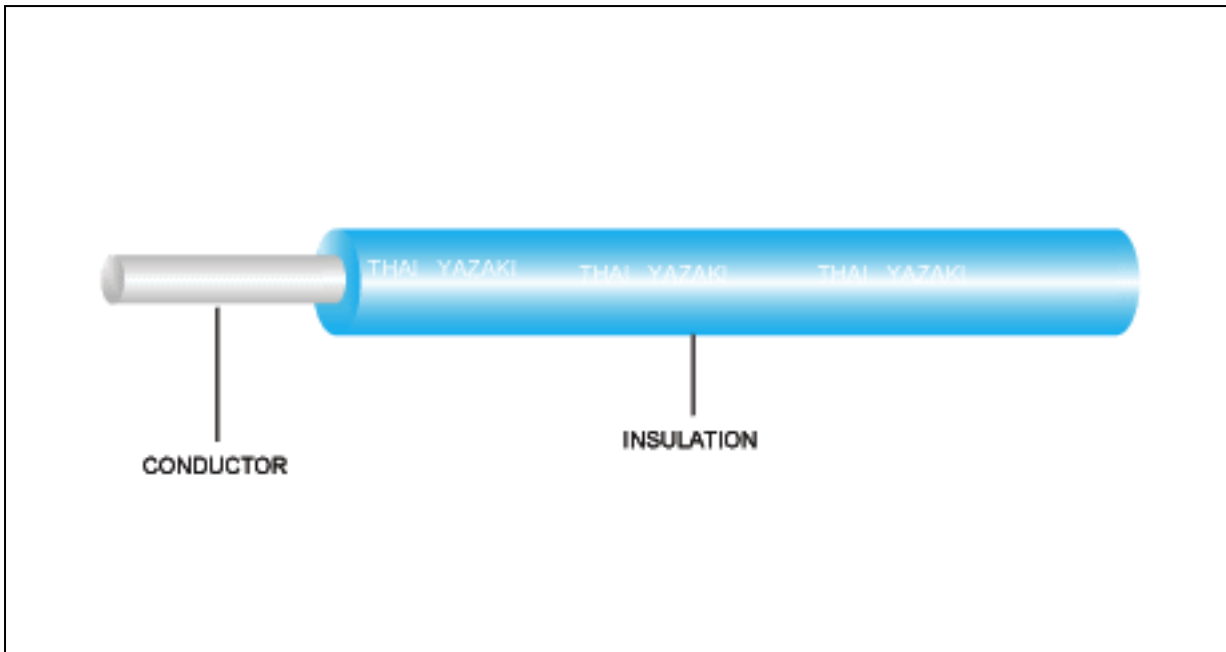
TIS 293-2541
TABLE 1

Nominal Cross Sectional area (mm ²)	Number and diameter of wire (NO./mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Maximum conductor Resistance at 20 °C (Ω-Km)	Minimum insulation resistance at 20 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
10	1/3.49	1.1	5.9	3.08	0.038	50	50	500/D
10	7/1.32	1.1	6.4	3.08	0.034	52	55	500/D
16	1/4.43	1.1	6.8	1.91	0.032	67	70	500/D
16	7/1.68	1.1	7.4	1.91	0.028	69	80	500/D
25	7/2.12	1.3	9.2	1.20	0.027	92	120	500/D
35	7/2.49	1.3	10.5	0.868	0.023	113	160	500/D
50	7/2.90	1.5	12.0	0.641	0.023	135	210	500/D
50	19/1.76	1.5	12.5	0.641	0.023	135	210	500/D
70	19/2.12	1.5	14.0	0.443	0.020	173	280	500/D
95	19/2.49	1.7	16.5	0.320	0.019	218	390	500/D
120	19/2.80	1.7	18.0	0.253	0.017	257	470	500/D
120	37/2.01	1.7	18.0	0.253	0.017	258	470	500/D
150	37/2.23	1.9	20.0	0.206	0.017	298	600	500/D
185	37/2.50	2.1	22.0	0.164	0.017	351	700	500/D
240	61/2.23	2.3	25.0	0.125	0.016	426	900	500/D
300	61/2.49	2.5	28.0	0.100	0.016	498	1,100	500/D
400	61/2.82	2.7	32.0	0.0778	0.015	594	1,400	500/D
500	61/3.20	3.1	36.0	0.0605	0.015	708	1,900	500/D

C : PACKING IN COILS.
D : PACKING IN DRUM.

NAY

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



CABLE STRUCTURE

CONDUCTOR	: Solid hard drawn aluminum wires, Sizes. 10 mm ² and 16 mm ²
INSULATION	: PVC Color : Blue
CLASSIFICATION	: Maximum conductor temperature 70°C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	: 2,500 volts
REFERENCE	: TIS 293-2541, Table 1

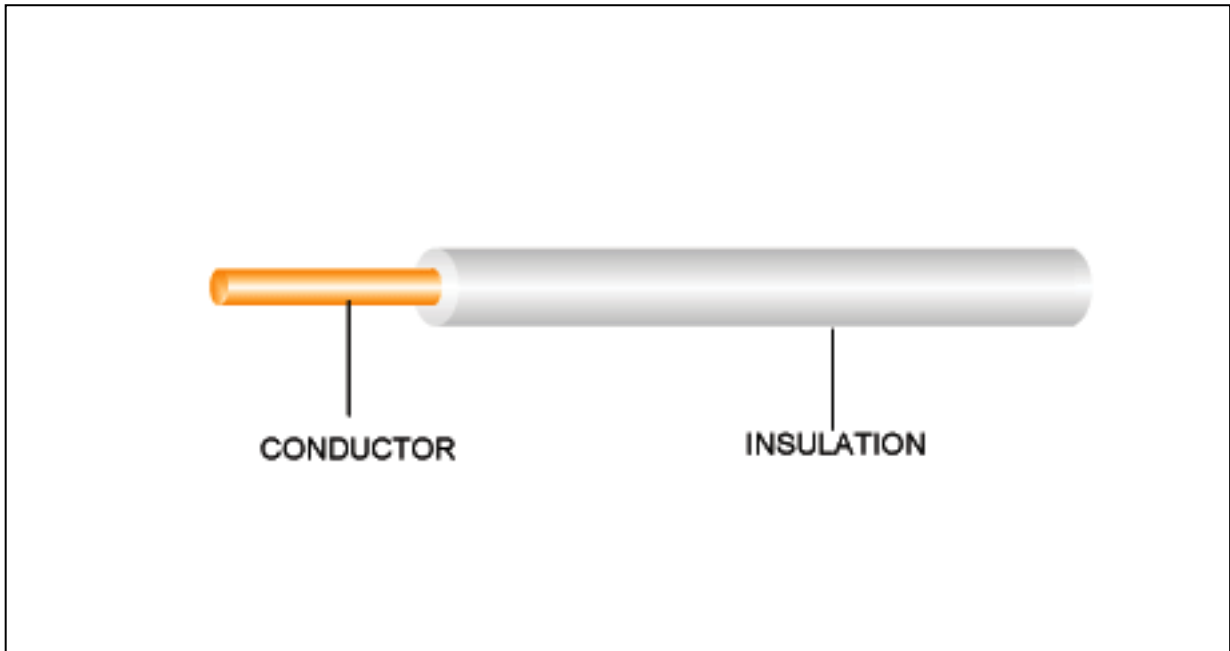
NAY

TIS 293-2541
TABLE 1

Nominal cross Sectional area (mm ²)	Number and diameter of wire (NO./mm)	Insulation thickness (mm)	Approx. overall diameter (mm)	Maximum Conductor Resistance at 20 °C (MΩ-Km)	Minimum insulation resistance at 20 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
10	1/3.57	2.7	9.3	2.937	40	51	110	500/C
16	1/4.50	2.9	10.5	1.848	40	68	147	500/C

IV

300 V 70 °C PVC INSULATED, SINGLE CORE



CABLE STRUCTURE

CONDUCTOR	: Solid and stranded annealed copper, Sizes 0.5 mm ² up to 500 mm ²
INSULATION	: PVC, Any color
CLASSIFICATION	: Maximum conductor temperature 70 °C Circuit Voltage not exceeding 300 volts
TESTING VOLTAGE	: 2,000 volts
REFERENCE	: TIS 11-2531, Table 1



IV

**TIS 11-2531
TABLE 1**

Nominal Cross Section area (mm ²)	Number and diameter of wire (No./mm)	Insulation Thickness (mm)	Max. overall diameter (mm)	Minimum insulation resistance at 70 °C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
0.5	1/0.80	0.6	2.6	0.0146	8	9	100/C
1	1/1.13	0.6	2.9	0.0115	12	14	100/C
1	7/0.43	0.6	3.1	0.0110	12	15	100/C
1.5	1/1.38	0.6	3.2	0.0100	16	19	100/C
1.5	7/0.53	0.6	3.4	0.0094	16	21	100/C
2.5	1/1.78	0.7	3.8	0.0092	23	31	100/C
2.5	7/0.67	0.7	4.1	0.0084	23	32	100/C
4	1/2.25	0.8	4.5	0.0086	31	47	100/C
4	7/0.85	0.8	4.9	0.0078	31	50	100/C
6	7/1.04	0.8	5.6	0.0066	42	70	100/C
10	7/1.35	1.0	7.0	0.0064	61	120	100/C
16	7/1.70	1.0	8.2	0.0053	83	180	100/C
25	7/2.14	1.2	10.0	0.0051	113	280	100/C
35	19/1.53	1.2	11.5	0.0043	141	370	100/C
50	19/1.78	1.4	13.0	0.0044	175	500	500/D
70	19/2.14	1.4	15.0	0.0037	221	700	500/D
95	19/2.52	1.6	17.5	0.0036	275	1,000	500/D
120	37/2.03	1.6	19.0	0.0032	321	1,200	500/D
150	37/2.25	1.8	21.5	0.0033	368	1,500	500/D

C: Packing in coil.
D: Packing in drum.