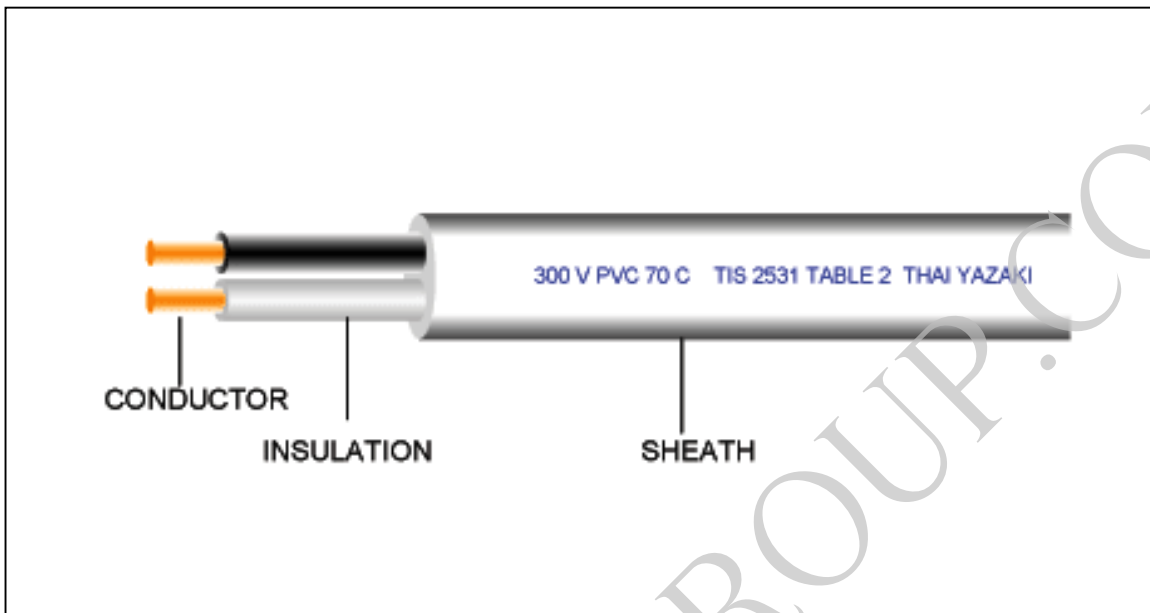


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## VAF

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### 300 V 70 °C PVC INSULATED AND SHEATHED FLAT TYPE



#### CABLE STRUCTURE

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



# VAF

**TIS 11-2531  
TABLE 2**

Number of core	Nominal cross section area (mm <sup>2</sup> )	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.

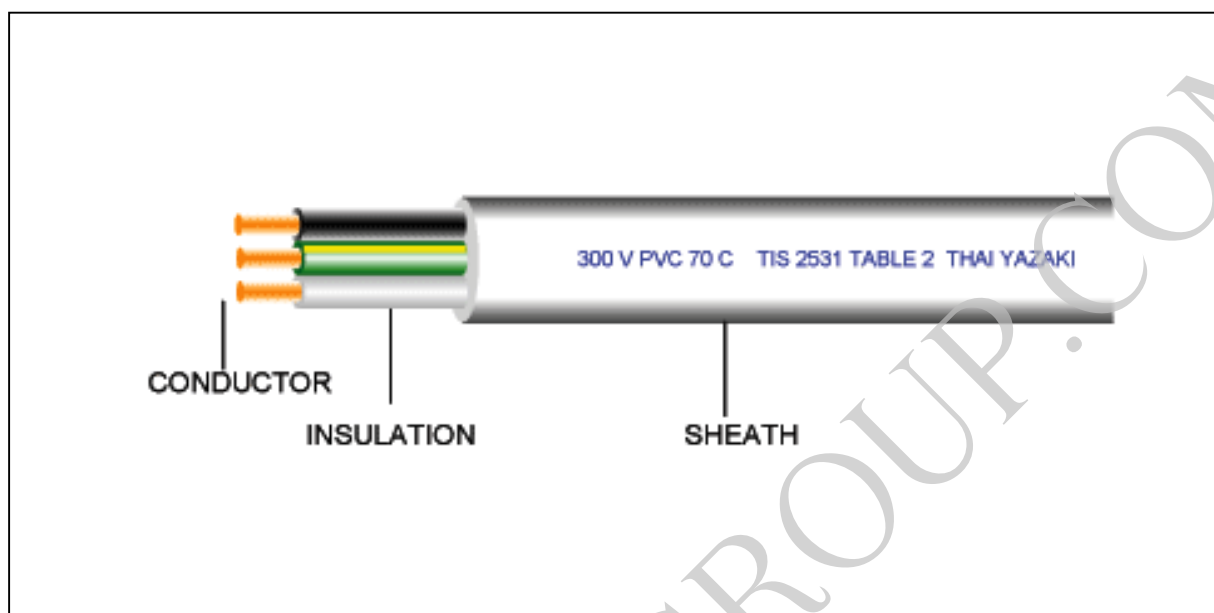
D: Packing in drum.

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## VAF-GRD

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



### CABLE STRUCTURE

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



# VAF-GRD

TIS 11-2531  
TABLE 11

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Nominal cross sectional area of ground conductor (mm <sup>2</sup> )	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.

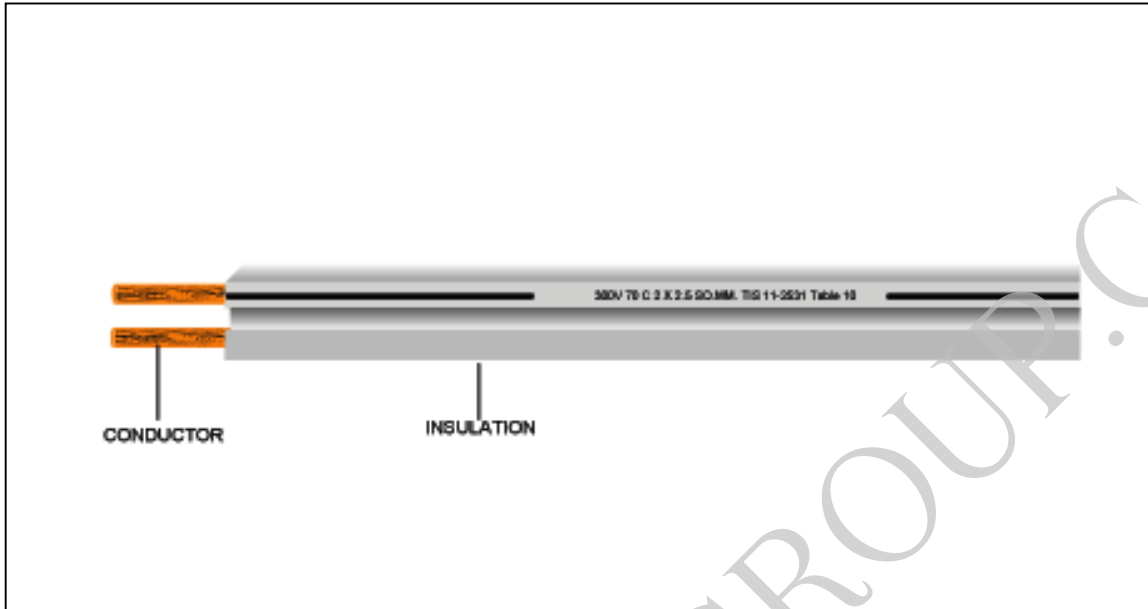


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## VFF

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



### CABLE STRUCTURE

- NUMBER OF CORE CONDUCTOR** : 2 conductors  
: Flexible annealed copper wire,  
Sizes. 0.5 mm<sup>2</sup> up to 2.5 mm<sup>2</sup>
- 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 10



# VFF

TIS 11-2531  
TABLE 10

Number of core	Nominal cross Sectional area (mm <sup>2</sup> )	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.

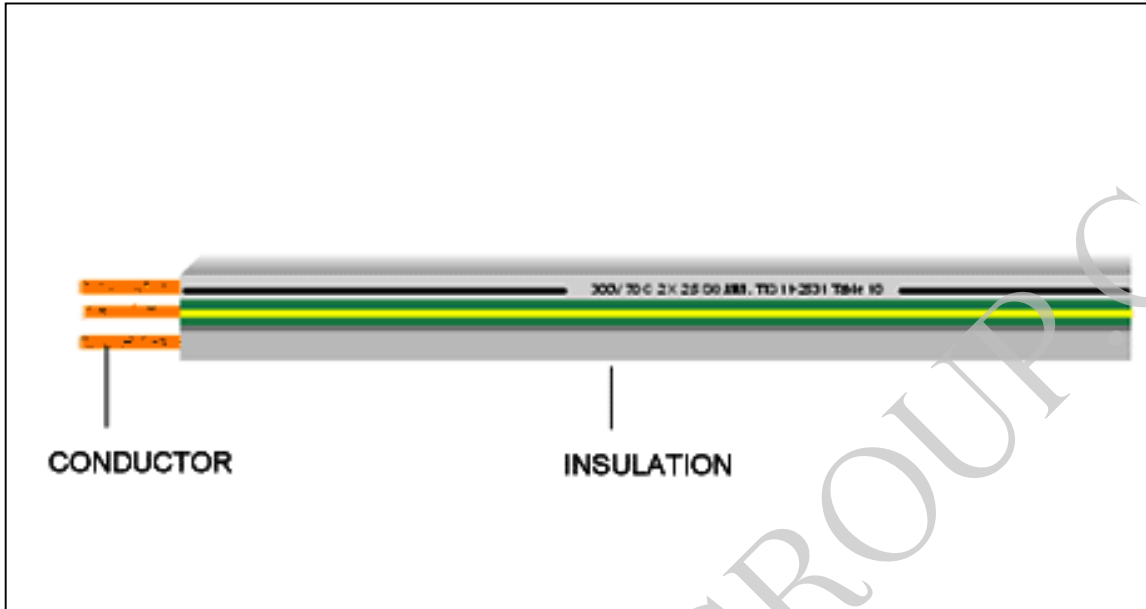


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## VFF-GRD

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



### CABLE STRUCTURE

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



# VFF-GRD

TIS 11-2531  
TABLE 16

Nominal Cross Sectional area (mm <sup>2</sup> )	Number and diameter of wire (No/mm)	Insulation Thickness (mm)	Nominal Cross sectional area of ground Conductor (mm <sup>2</sup> )	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.

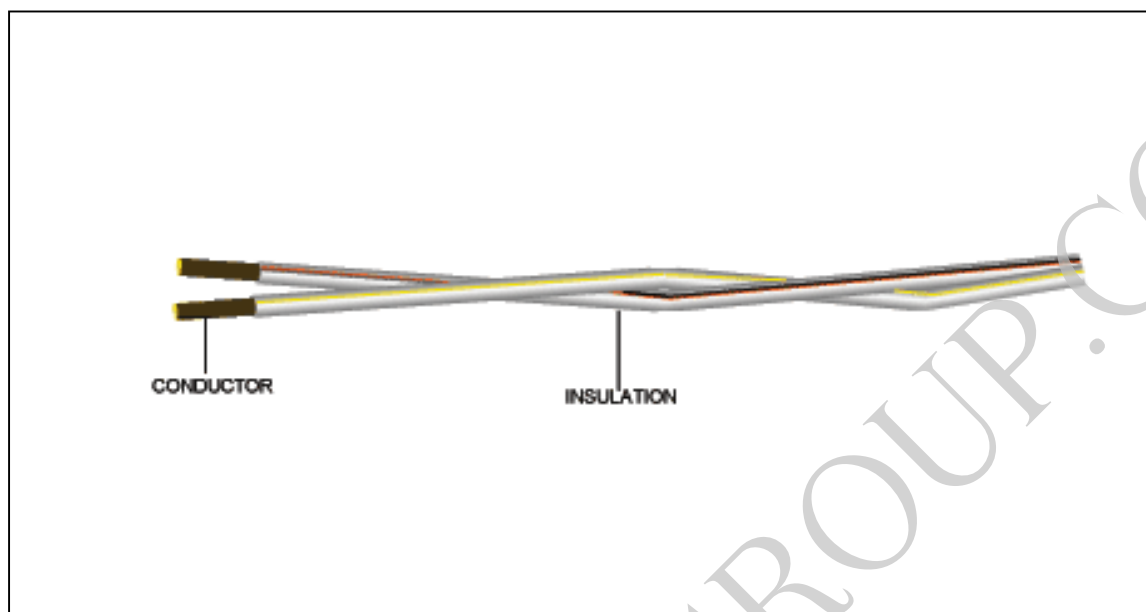


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## VSF

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



### CABLE STRUCTURE

- CONDUCTOR** : Flexible stranded annealed copper wire,  
Sizes. 0.5 mm<sup>2</sup> up to 2.5 mm<sup>2</sup>
- 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 <sup>2</sup> )	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.

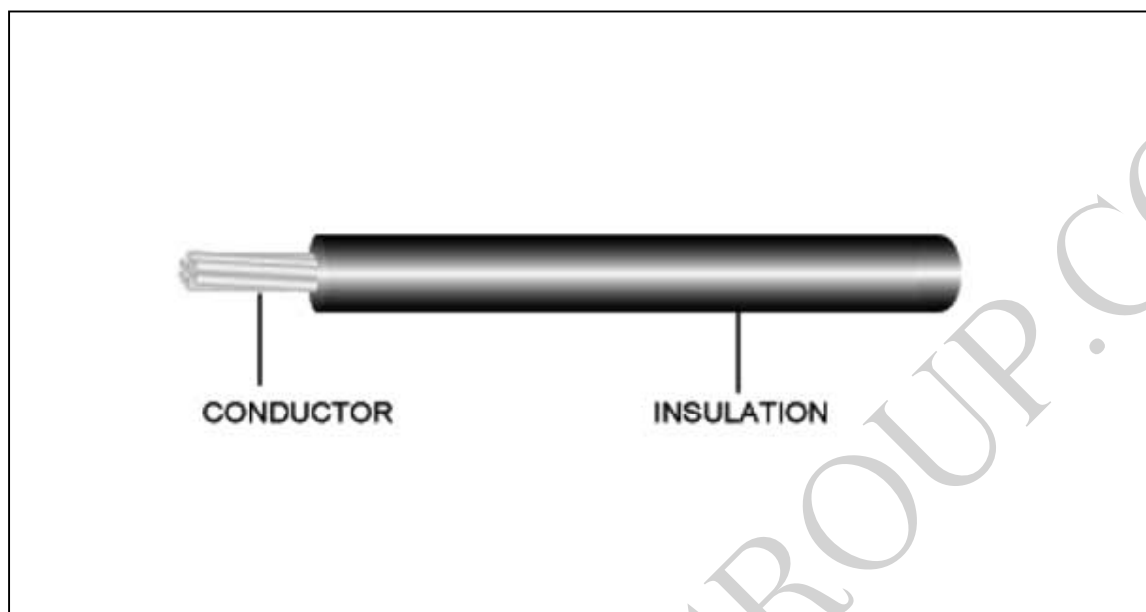


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## THWA

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



### CABLE STRUCTURE

- CONDUCTOR** : Solid hard and stranded hard drawn aluminum wires,  
Sizes 10 mm<sup>2</sup> up to 500 mm<sup>2</sup>
- 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 <sup>2</sup> )	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.



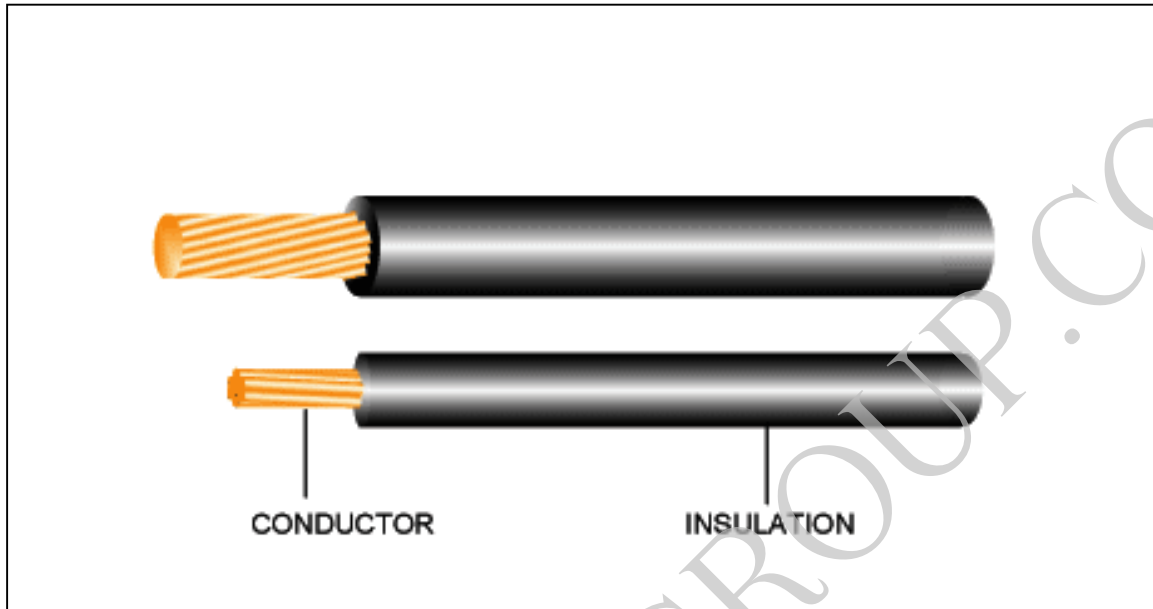
[WWW.KORATGROUP.COM](http://WWW.KORATGROUP.COM)

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## THW, MEA TYPE A

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750 V 70 °C PVC INSULATED, SINGLE CORE



### CABLE STRUCTURE

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



# THW, MEA TYPE A

TIS 11-2531  
TABLE 4

Nominal Cross Section area (mm <sup>2</sup> )	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.

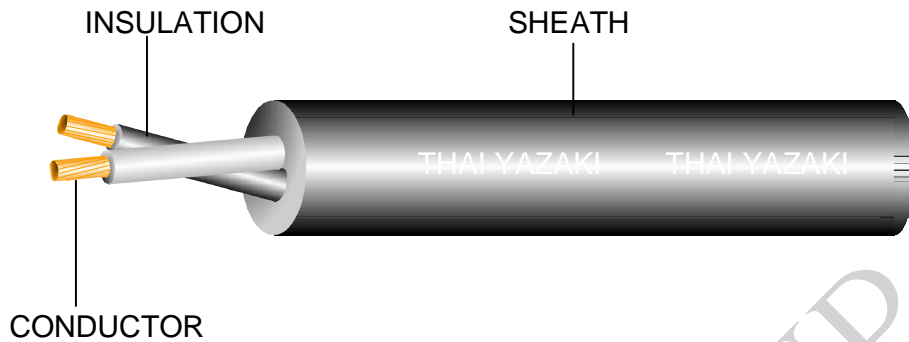


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# VCT

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750 V 70 °C PVC INSULATED AND SHEATHED FLEXIBLE CABLE



## CABLE STRUCTURE

<b>NUMBER OF CORE CONDUCTOR</b>	:	Up to 4 cores Flexible annealed copper wire, Sizes.0.5 mm <sup>2</sup> up to 95 mm <sup>2</sup> for single core 0.5 mm <sup>2</sup> up to 35 mm <sup>2</sup> for multi core
<b>INSULATION</b>	:	PVC Color: Single core – Light gray 2 cores – Light gray and Black 3 cores – Light gray, Black and Red 4 cores – Light gray, Black, Red and Blue
<b>SHEATH</b>	:	PVC Color: White
<b>CLASSIFICATION</b>	:	Maximum conductor temperature 70 °C Circuit voltage not exceeding 750 Volts
<b>TESTING VOLTAGE REFERENCE</b>	:	2,500 volts TIS 11-2531, Table 9



# VCT

TIS 11-2531  
TABLE 3

Number of core	Nominal cross section area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Sheath 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	1.0	5.4	0.0160	10	28	100/C
	0.75	24 / 0.20	0.8	1.0	5.6	0.0140	13	32	100/C
	1	32 / 0.25	0.8	1.2	6.2	0.0127	15	40	100/C
	1.5	30 / 0.25	0.8	1.2	6.6	0.0111	19	47	100/C
	2.5	50 / 0.25	0.8	1.2	7.4	0.0092	27	60	100/C
	4	56 / 0.30	0.9	1.4	8.6	0.0084	36	85	100/C
	6	84 / 0.30	0.9	1.4	9.4	0.0071	46	120	100/C
	10	80 / 0.40	1.1	1.8	12.0	0.0068	67	200	100/C
	16	126 / 0.40	1.1	1.8	13.5	0.0050	88	270	100/C
	25	196 / 0.40	1.3	2.2	16.0	0.0048	116	400	100/C
	35	280 / 0.40	1.3	2.2	17.5	0.0041	145	550	500/D
	50	399 / 0.40	1.5	2.6	21.0	0.0040	181	750	500/D
	70	361 / 0.50	1.5	2.6	23.0	0.0034	226	950	500/D
95	475 / 0.50	1.7	3.0	26.5	0.0034	268	1,300	500/D	
2	0.5	16 / 0.20	0.8	1.2	8.8	0.0160	9	75	100/C
	0.75	24 / 0.20	0.8	1.2	9.2	0.0140	12	85	100/C
	1	32 / 0.25	0.8	1.2	9.6	0.0127	14	95	100/C
	1.5	30 / 0.25	0.8	1.4	11.0	0.0111	18	120	100/C
	2.5	50 / 0.25	0.8	1.4	12.5	0.0092	24	160	100/C
	4	56 / 0.30	0.9	1.6	14.5	0.0084	33	230	100/C
	6	84 / 0.30	0.9	1.6	16.0	0.0071	42	300	100/C
	10	80 / 0.40	1.1	1.8	20.0	0.0068	60	500	500/D
	16	126 / 0.40	1.1	2.2	23.0	0.0050	80	700	500/D
	25	196 / 0.40	1.3	2.4	27.5	0.0048	104	1,000	500/D
	35	280 / 0.40	1.3	2.6	31.0	0.0041	130	1,400	500/D
3	0.5	16 / 0.20	0.8	1.2	7.8	0.0146	7	65	500/D
	0.75	24 / 0.20	0.8	1.2	8.6	0.0115	10	90	500/D
	1	32 / 0.25	0.8	1.4	9.0	0.0110	10	100	500/D
	1.5	30 / 0.25	0.8	1.4	10.0	0.0100	13	130	500/D
	2.5	50 / 0.25	0.8	1.4	10.5	0.0094	13	140	500/D
	4	56 / 0.30	0.9	1.6	11.5	0.0092	18	190	500/D
	6	84 / 0.30	0.9	1.8	12.5	0.0084	18	200	500/D
	10	80 / 0.40	1.1	2.0	13.5	0.0086	25	280	500/D
	16	126 / 0.40	1.1	2.4	14.0	0.0078	25	300	500/D
	25	196 / 0.40	1.3	2.6	15.5	0.0066	33	400	500/D
	35	280 / 0.40	1.3	2.8	19.0	0.0059	45	650	500/D
4	0.5	16 / 0.20	0.8	0.9	7.8	0.0146	7	65	500/D
	0.75	24 / 0.20	0.8	0.9	8.6	0.0115	10	90	500/D
	1	32 / 0.25	0.8	0.9	9.0	0.0110	10	100	500/D
	1.5	30 / 0.25	0.8	1.2	10.0	0.0100	13	130	500/D
	2.5	50 / 0.25	0.8	1.2	10.5	0.0094	13	140	500/D
	4	56 / 0.30	0.9	1.2	11.5	0.0092	18	190	500/D
	6	84 / 0.30	0.9	1.2	12.5	0.0084	18	200	500/D
	10	80 / 0.40	1.1	1.2	13.5	0.0086	25	280	500/D
	16	126 / 0.40	1.1	1.2	14.0	0.0078	25	300	500/D
	25	196 / 0.40	1.3	1.2	15.5	0.0066	33	400	500/D
	35	280 / 0.40	1.3	1.4	19.0	0.0059	45	650	500/D

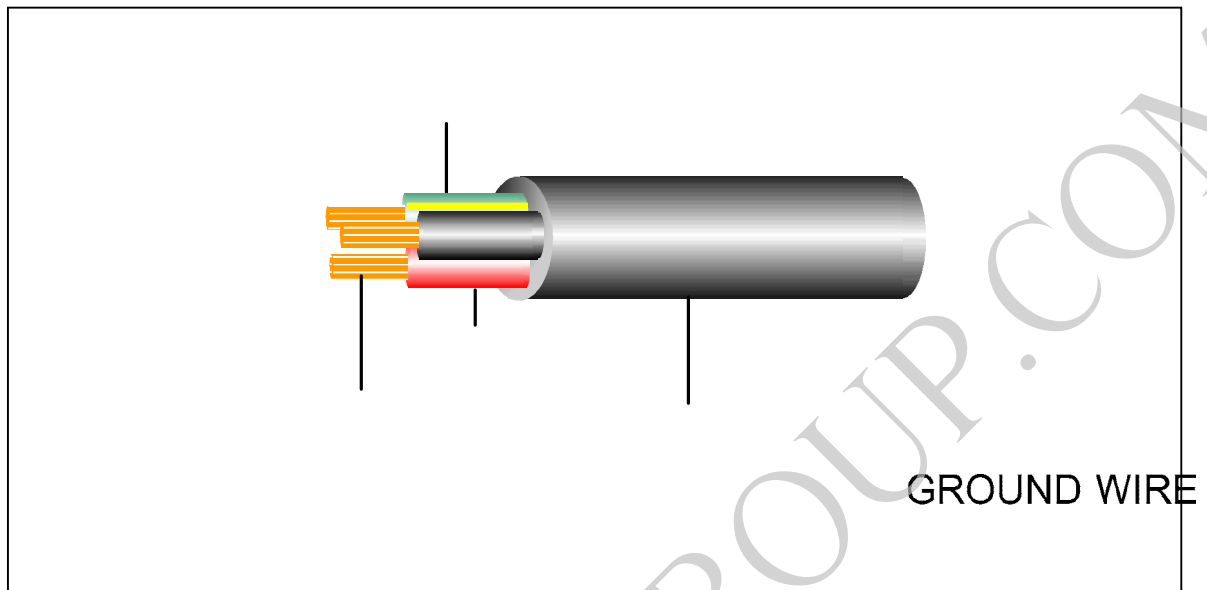


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## VCT-GRD

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750 V 70 °C PVC INSULATED AND SHEATHED FLEXIBLE CONDUCTOR WITH GROUND



### CABLE STRUCTURE

**NUMBER OF CORE CONDUCTOR** : 2 up to 4 phase cores with ground core  
: Flexible annealed copper wires,

sizes 1 mm<sup>2</sup> up to 35 mm<sup>2</sup>  
Ground conductor size 1 mm<sup>2</sup> up to 10 mm<sup>2</sup>

**INSULATION** :

PVC

Color : 2 cores – Light gray and Black

3 cores – Light gray, Black and Red

4 cores - Light gray, Black, Red and Blue

**SHEATH** :

PVC

Color: White

**CLASSIFICATION** :

Maximum conductor temperature 70 °C

Circuit voltage not exceeding 750 volts

**TESTING VOLTAGE** :

2,500 volts

**REFERENCE** :

TIS 11-2531, Table 15

INSULATION

CONDUCTOR



# VCT - GRD

TIS 11-2531  
TABLE 12

Number of core	Nominal cross section area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Nominal cross sectional area of ground conductor (mm <sup>2</sup> )	Ground insulation thickness (mm)	Sheath thickness (mm)	Max. Overall diameter (mm)	Minimum insulation resistance at 70 °C (MΩ·Km)	Minimum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
2	1	32/0.20	0.8	1	0.6	1.2	10.5	0.0127	14	100	100/C
	1.5	30/0.25	0.8	1	0.6	1.4	11.5	0.0111	18	130	100/C
	2.5	50/0.25	0.8	1.5	0.6	1.4	13.0	0.0092	24	170	100/C
	4	56/0.30	0.9	2.5	0.6	1.6	15.5	0.0084	33	240	100/C
	6	84/0.30	0.9	4	0.6	1.6	17.0	0.0071	42	330	100/C
	10	84/0.30	1.1	4	0.6	1.8	20.0	0.0068	60	550	500/D
	16	126/0.40	1.1	6	0.6	2.2	23.0	0.0050	80	750	500/D
	25	196/0.40	1.3	6	0.6	2.4	27.5	0.0048	104	1,100	500/D
	35	280/0.40	1.3	10	0.6	2.6	31.0	0.0041	130	1,500	500/D
3	1	32/0.20	0.8	1	0.6	1.4	11.5	0.0127	12	130	100/C
	1.5	30/0.25	0.8	1	0.6	1.4	12.5	0.0111	15	160	100/C
	2.5	50/0.25	0.8	1.5	0.6	1.4	14.5	0.0092	20	210	100/C
	4	56/0.30	0.9	2.5	0.6	1.6	17.0	0.0084	27	310	100/C
	6	84/0.30	0.9	4	0.6	1.8	19.0	0.0071	35	440	100/C
	10	84/0.30	1.1	4	0.6	2.0	23.5	0.0068	51	650	500/D
	16	126/0.40	1.1	6	0.6	2.4	27.5	0.0050	67	950	500/D
	25	196/0.40	1.3	6	0.6	2.6	32.5	0.0048	87	1,400	500/D
	35	280/0.40	1.3	10	0.6	2.8	36.5	0.0041	108	1,800	500/D
4	1	32/0.20	0.8	1	0.6	1.6	13.0	0.0127	11	180	100/C
	1.5	30/0.25	0.8	1	0.6	1.6	13.5	0.0111	13	210	100/C
	2.5	50/0.25	0.8	1.5	0.6	1.6	16.0	0.0092	18	270	100/C
	4	56/0.30	0.9	2.5	0.6	1.8	18.5	0.0084	25	400	100/C
	6	84/0.30	0.9	4	0.6	2.0	21.0	0.0071	32	550	500/D
	10	84/0.30	1.1	4	0.6	2.2	26.0	0.0068	46	900	500/D
	16	126/0.40	1.1	6	0.6	2.6	30.5	0.0050	60	1,200	500/D
	25	196/0.40	1.3	6	0.6	2.8	36.0	0.0048	78	1,700	500/D
	35	280/0.40	1.3	10	0.6	3.1	40.5	0.0041	97	2,400	500/D

TISI permitted to increase the maximum overall diameter by 5 %  
D : Packing in drum.



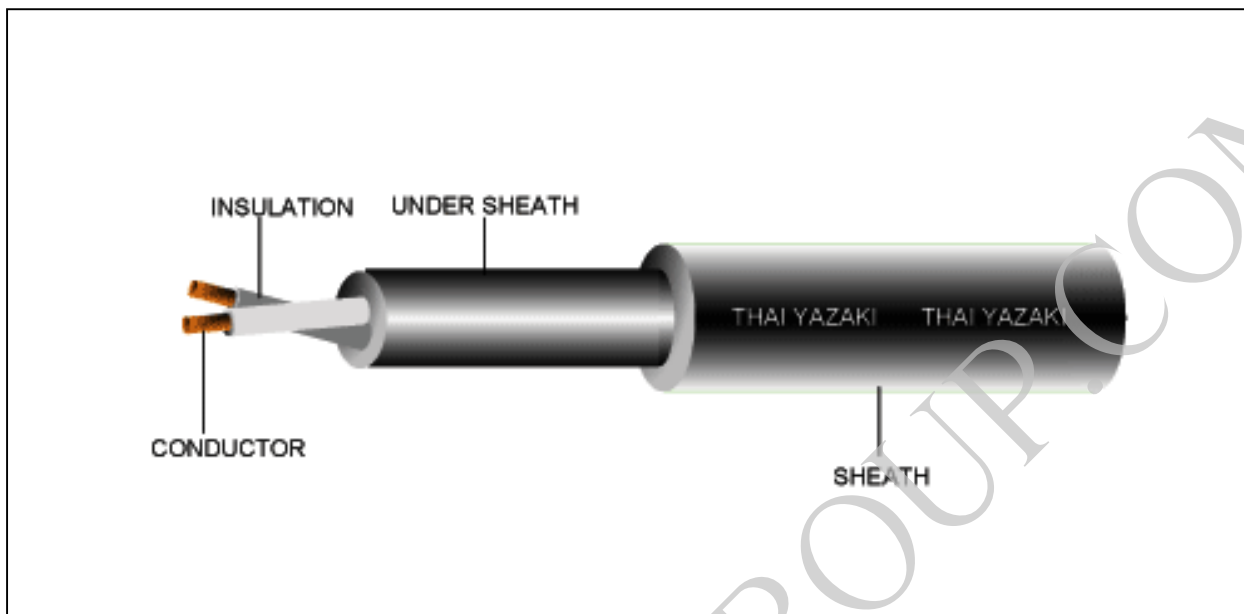
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## NYY, MEA TYPE C

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750 V 70 °C PVC INSULATED AND DOUBLE SHEATHED ROUND TYPE



### CABLE STRUCTURE

- NUMBER OF CORE CONDUCTOR** : Up to 4 cores  
: Solid and stranded annealed copper, sizes 1 mm<sup>2</sup> up to 500 mm<sup>2</sup>
- INSULATION** : Multi core 1 mm<sup>2</sup> up to 300 mm<sup>2</sup>  
: PVC  
Color: Single core – Black  
2 cores – Light gray and Black  
3 cores – Light gray, Black and Red  
4 cores – Light gray, Black, Red and Blue
- SHEATH** : PVC  
Color: Black
- CLASSIFICATION** : Maximum conductor temperature 70 °C  
Circuit voltage not exceeding 750 volts
- TESTING VOLTAGE** : 2,500 volts
- REFERENCE** : TIS 11 Table 6 (Single core)  
TIS 11 -2531, Table 7 (Multi core)

# NYY, MEA TYPE C (SINGLE CORE)

**TIS 11-2531  
TABLE 6**

Nominal Cross Sectional area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Sheath 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)
						Free air	Under air		
1	1 / 1.13	1.5	1.8	8.6	0.0207	17	22	80	100/C
1	7 / 0.43	1.5	1.8	8.8	0.0200	17	22	80	100/C
1.5	1 / 1.38	1.5	1.8	9.0	0.0184	21	27	85	100/C
1.5	7 / 0.53	1.5	1.8	9.2	0.0175	21	27	90	100/C
2.5	1 / 1.78	1.5	1.8	9.4	0.0157	28	36	100	100/C
2.5	7 / 0.67	1.5	1.8	9.8	0.0146	28	36	110	100/C
4	1 / 2.25	1.5	1.8	10.0	0.0135	38	47	120	100/C
4	7 / 0.85	1.5	1.8	10.5	0.0124	38	47	130	100/C
6	7 / 1.04	1.5	1.8	11.0	0.0107	49	60	160	100/C
10	7 / 1.35	1.5	1.8	12.0	0.0088	67	81	210	500/D
16	7 / 1.70	1.5	1.8	13.0	0.0074	89	105	280	500/D
25	7 / 2.14	1.5	1.8	14.5	0.0061	118	136	390	500/D
35	19 / 1.53	1.5	1.8	16.0	0.0053	146	165	490	500/D
50	19 / 1.78	1.5	1.8	17.0	0.0046	177	196	600	500/D
70	19 / 2.14	1.5	1.8	19.0	0.0039	222	241	850	500/D
95	19 / 2.52	1.7	1.8	21.5	0.0038	274	289	1,100	500/D
120	37 / 2.03	1.7	1.8	23.0	0.0034	318	330	1,400	500/D
150	37 / 2.25	1.9	2.0	26.0	0.0034	362	370	1,700	500/D
185	37 / 2.52	2.1	2.0	28.0	0.0034	416	419	2,100	500/D
240	61 / 2.25	2.3	2.2	31.5	0.0033	492	486	2,700	500/D
300	61 / 2.52	2.5	2.2	35.0	0.0032	565	551	3,400	500/D
400	61 / 2.85	2.7	2.2	38.5	0.0030	655	629	4,300	500/D
500	61 / 3.20	3.1	2.4	43.0	0.0031	757	717	5,400	500/D

TISI Permitted to increase the maximum overall diameter by 5 %

C: Packing in coil.

D: Packing in drum.

# NYY, MEA TYPE C

**TIS 11-2531  
TABLE 7**

Number of core	Nominal Cross Section area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Under sheath thickness (mm)	Sheath 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)
								Free air	Under ground		
2	1	1 / 1.13	0.8	0.8	1.8	12.0	0.0141	15	21	160	100/C
	1	7 / 0.43	0.8	0.8	1.8	12.5	0.0135	15	21	160	100/C
	1.5	1 / 1.38	0.8	0.8	1.8	12.5	0.0123	19	27	170	100/C
	1.5	7 / 0.53	0.8	0.8	1.8	13.0	0.0116	19	27	190	100/C
	2.5	1 / 1.78	0.8	0.8	1.8	13.5	0.0102	25	35	210	100/C
	2.5	7 / 0.67	0.8	0.8	1.8	14.0	0.0093	25	35	230	100/C
	4	1 / 2.25	0.9	0.8	1.8	15.0	0.0094	33	47	270	100/C
	4	7 / 0.85	0.9	0.8	1.8	15.5	0.0085	33	47	290	100/C
	6	7 / 1.04	0.9	0.8	1.8	17.0	0.0073	43	60	360	100/C
	10	7 / 1.35	1.1	0.8	1.8	19.5	0.0069	60	81	550	500/D
	16	7 / 1.70	1.1	0.8	2.0	22.5	0.0057	80	105	700	500/D
	25	7 / 2.14	1.3	1.2	2.0	27.0	0.0054	106	136	1,100	500/D
	35	19 / 1.53	1.3	1.2	2.0	29.5	0.0047	130	165	1,400	500/D
	50	19 / 1.78	1.5	1.2	2.2	33.5	0.0046	157	196	1,800	500/D
	70	19 / 2.14	1.5	1.5	2.2	38.0	0.0039	195	240	2,400	500/D
	95	19 / 2.52	1.7	1.5	2.2	42.5	0.0038	239	290	3,200	500/D
	120	37 / 2.03	1.7	1.5	2.4	46.5	0.0034	280	332	3,900	500/D
	150	37 / 2.25	1.9	1.8	2.6	52.0	0.0034	320	370	4,800	500/D
185	37 / 2.52	2.1	1.8	2.8	57.0	0.0034	370	419	6,000	500/D	
240	61 / 2.25	2.3	2.0	3.0	64.0	0.0033	440	484	7,500	500/D	
300	61 / 2.52	2.5	2.0	3.2	70.5	0.0032	507	547	9,500	500/D	
3	1	1 / 1.13	0.8	0.8	1.8	12.5	0.0141	12	18	180	100/C
	1	7 / 0.43	0.8	0.8	1.8	13.0	0.0135	12	18	180	100/C
	1.5	1 / 1.38	0.8	0.8	1.8	13.0	0.0123	16	22	200	100/C
	1.5	7 / 0.53	0.8	0.8	1.8	13.5	0.0116	16	22	210	100/C
	2.5	1 / 1.78	0.8	0.8	1.8	14.0	0.0102	21	30	240	100/C
	2.5	7 / 0.67	0.8	0.8	1.8	15.0	0.0093	21	30	260	100/C
	4	1 / 2.25	0.9	0.8	1.8	15.5	0.0094	28	39	320	100/C
	4	7 / 0.85	0.9	0.8	1.8	16.5	0.0085	28	39	350	100/C
	6	7 / 1.04	0.9	0.8	1.8	18.0	0.0073	37	50	440	100/C
	10	7 / 1.35	1.1	0.8	1.8	20.5	0.0069	50	68	650	500/D
	16	7 / 1.70	1.1	1.2	2.0	24.5	0.0057	67	87	950	500/D
	25	7 / 2.14	1.3	1.2	2.0	28.5	0.0054	89	113	1,400	500/D
	35	19 / 1.53	1.3	1.2	2.0	31.5	0.0047	109	137	1,700	500/D
	50	19 / 1.78	1.5	1.5	2.2	36.0	0.0046	131	162	2,300	500/D
	70	19 / 2.14	1.5	1.5	2.2	40.5	0.0039	163	200	3,100	500/D
	95	19 / 2.52	1.7	1.5	2.4	46.0	0.0038	202	240	4,200	500/D
	120	37 / 2.03	1.7	1.8	2.6	50.5	0.0034	235	273	5,000	500/D
	150	37 / 2.25	1.9	1.8	2.8	56.0	0.0034	269	306	6,500	500/D
185	37 / 2.52	2.1	2.0	3.0	61.5	0.0034	311	346	8,000	500/D	
240	61 / 2.25	2.3	2.0	3.2	69.0	0.0033	371	402	10,000	500/D	
300	61 / 2.52	2.5	2.2	3.4	76.0	0.0032	427	453	12,500	500/D	

# NYY, MEA TYPE C

TIS 11-2531  
TABLE 7

Number of core	Nominal Cross Sectional area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Under sheath thickness (mm)	Sheath 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)
								Free air	Under ground		
4	1	1 / 1.13	0.8	0.8	1.8	13.5	0.0141	11	16	200	100/C
	1	7 / 0.43	0.8	0.8	1.8	14.0	0.0135	11	16	210	100/C
	1.5	1 / 1.38	0.8	0.8	1.8	14.0	0.0123	14	20	230	100/C
	1.5	7 / 0.53	0.8	0.8	1.8	14.5	0.0116	14	20	240	100/C
	2.5	1 / 1.78	0.8	0.8	1.8	15.0	0.0102	19	27	290	100/C
	2.5	7 / 0.67	0.8	0.8	1.8	16.0	0.0093	19	27	310	100/C
	4	1 / 2.25	0.9	0.8	1.8	17.0	0.0094	25	35	390	100/C
	4	7 / 0.85	0.9	0.8	1.8	17.5	0.0085	25	35	410	100/C
	6	7 / 1.04	0.9	0.8	1.8	19.0	0.0073	33	45	550	500/D
	10	7 / 1.35	1.1	0.8	2.0	23.0	0.0069	45	60	800	500/D
	16	7 / 1.70	1.1	1.2	2.0	26.5	0.0057	60	77	1,100	500/D
	25	7 / 2.14	1.3	1.2	2.0	31.0	0.0054	79	100	1,700	500/D
	35	19 / 1.53	1.3	1.5	2.2	35.0	0.0047	97	120	2,200	500/D
	50	19 / 1.78	1.5	1.5	2.2	39.5	0.0046	117	144	2,900	500/D
	70	19 / 2.14	1.5	1.5	2.4	44.5	0.0039	147	176	4,000	500/D
	95	19 / 2.52	1.7	1.8	2.6	57.5	0.0038	182	211	5,500	500/D
	120	37 / 2.03	1.7	1.8	2.8	56.0	0.0034	213	241	6,500	500/D
	150	37 / 2.25	1.9	2.0	3.0	62.0	0.0034	243	270	8,000	500/D
	185	37 / 2.52	2.1	2.0	3.2	68.0	0.0034	282	306	10,000	500/D
240	61 / 2.25	2.3	2.2	3.4	76.5	0.0033	335	354	13,000	500/D	
300	61 / 2.52	2.5	2.2	3.8	85.0	0.0032	385	399	16,000	500/D	

TISI Permitted to increase the maximum overall diameter by 5 %

\* REMARK : Special protection can be produced,

C: Packing in coil.

D: Packing in drum.

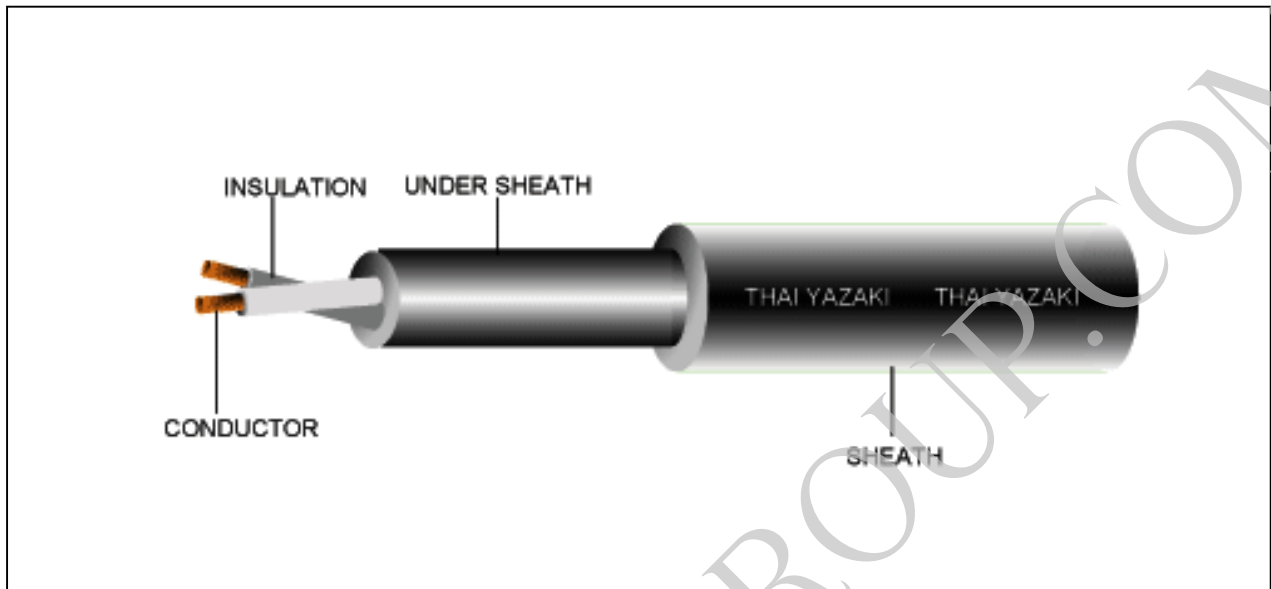


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## NYY-N, MEA TYPE C-N

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750 V 70 °C PVC INSULATED AND DOUBLE SHEATHED ROUND TYPE WITH NEUTRAL



### CABLE STRUCTURE

- NUMBER OF CORE CONDUCTOR** : 3 phase core with 1 neutral core  
: Stranded annealed copper,  
: Sizes : Phase conductor size. 6 mm<sup>2</sup> up to 300 mm<sup>2</sup>  
: Neutral conductor size. 4 mm<sup>2</sup> up to 150 mm<sup>2</sup>
- INSULATION** : PVC  
: Color: 3 cores Black, Red Blue  
: 1 Neutral core – Light gray
- SHEATH AND UNDER SHEATH** : PVC  
: Color: Black
- CLASSIFICATION** : Maximum conductor temperature 70 °C  
: Circuit voltage not exceeding 750 volts
- TESTING VOLTAGE** : 2,500 volts
- REFERENCE** : TIS 11- 2531, Table 8

# NYY-N, MEA TYPE C-N

**TIS 11-2531  
TABLE 8**

Nominal cross sectional area (mm. <sup>2</sup> )		Number and diameter of wire (No. / mm.)		Insulation thickness (mm.)		Under sheath thickness (mm)	Sheath 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)
Phase	Neutral	Phase	Neutral	Phase	Neutral					Free air	Under ground		
3X6	1X4	7/1.04	7/0.85	0.9	0.9	0.8	1.8	19.0	0.0073	37	51	500	500/D
3X10	1X6	7/1.35	7/1.04	1.1	0.9	0.8	2.0	23.0	0.0069	51	68	750	500/D
3X16	1X10	7/1.70	7/1.35	1.1	1.1	1.2	2.0	26.5	0.0057	68	88	1,100	500/D
3X25	1X16	7/2.14	7/1.70	1.3	1.1	1.2	2.0	31.0	0.0054	90	114	1,600	500/D
3X35	1X16	19/1.53	7/1.70	1.3	1.1	1.5	2.2	35.0	0.0047	109	137	2,000	500/D
3X50	1X25	19/1.78	7/2.14	1.5	1.3	1.5	2.2	39.5	0.0046	133	163	2,600	500/D
3X70	1X35	19/2.14	19/1.53	1.5	1.3	1.5	2.4	44.5	0.0039	166	201	3,500	500/D
3X95	1X50	19/2.52	19/1.78	1.7	1.5	1.8	2.6	51.5	0.0038	205	240	4,800	500/D
3X120	1X70	37/2.03	19/2.14	1.7	1.5	1.8	2.8	56.0	0.0034	240	275	6,000	500/D
3X150	1X70	37/2.25	19/2.14	1.9	1.5	2.0	3.0	62.0	0.0034	272	306	7,000	300/D
3X185	1X95	37/2.52	19/2.52	2.1	1.7	2.0	3.2	68.0	0.0034	316	347	9,000	300/D
3X240	1X120	61/2.25	37/2.03	2.3	1.7	2.2	3.4	76.5	0.0033	375	402	11,500	200/D
3X300	1X150	61/2.52	37/2.25	2.5	1.9	2.2	3.8	84.5	0.0032	430	453	14,000	200/D

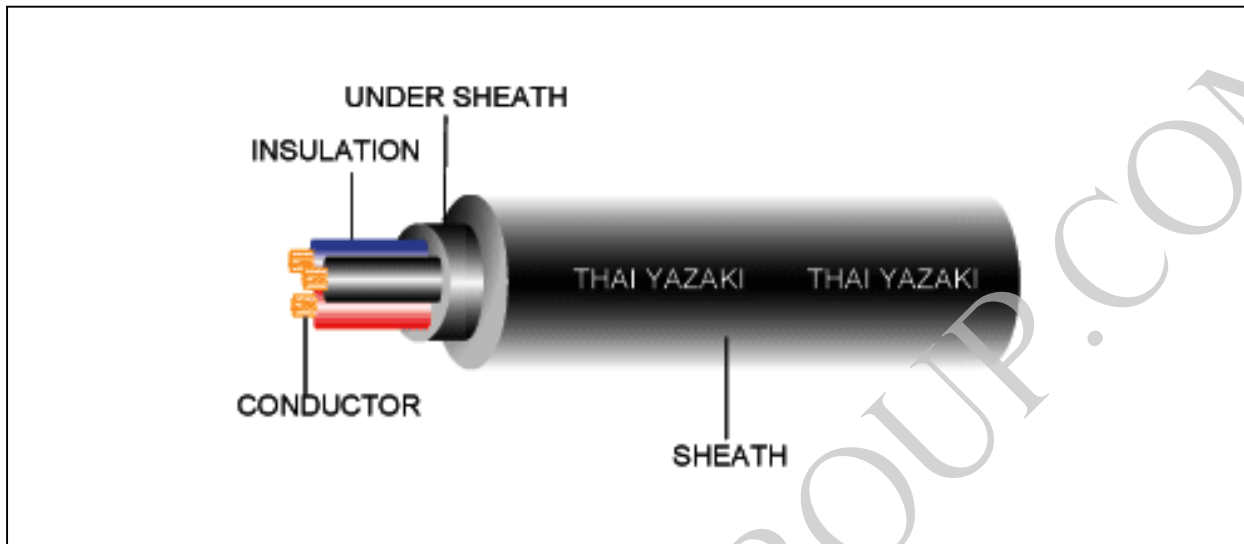
TISI PERMITTED TO INCREASE THE MAXIMUM OVERALL DIAMETER BY 5 %  
 \* REMARK : SPECIAL PROTECTION CAN BE PRODUCED  
 D: Packing in drum.

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## NYY-GRD, MEA TYPE C-GRD

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750 V 70 °C PVC INSULATED AND DOUBLE SHEATHED ROUND TYPE ,WITH GROUND



### CABLE STRUCTURE

- NUMBER OF CORE CONDUCTOR** : 2 Up to 4 cores with safety ground  
: Solid and stranded annealed copper, sizes 1 mm<sup>2</sup> up to 300 mm<sup>2</sup>  
: Ground conductor size 1 mm<sup>2</sup> up 35 mm<sup>2</sup>
- INSULATION** : PVC  
Color: 2 cores – Light gray and Black  
3 cores – Light gray, Black and Red  
4 cores – Light gray, Black, Red and Blue  
Ground core- Green/Yellow
- SHEATH UNDER SHEATH** : PVC  
Color: Black
- CLASSIFICATION** : Maximum conductor temperature 70 °C  
Circuit voltage not exceeding 750 volts
- TESTING VOLTAGE REFERENCE** : 2,500 volts  
: TIS 11-2531, Table 14

# NYY-GRD, MEA TYPE C-GRD

TIS 11-2531  
TABLE 14

Number of core	Nominal Cross Sectional area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Nominal cross sectional area of ground conductor (mm <sup>2</sup> )	Ground insulation thickness (mm)	Under sheath thickness (mm)	Sheath 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)
										Free air	Under ground		
2	1	1 / 1.13	0.8	1	0.6	0.8	1.8	12.5	0.0141	15	21	170	500/D
	1	7 / 0.43	0.8	1	0.6	0.8	1.8	13.0	0.0135	15	21	170	500/D
	1.5	1 / 1.38	0.8	1	0.6	0.8	1.8	13.0	0.0123	19	27	180	500/D
	1.5	7 / 0.53	0.8	1	0.6	0.8	1.8	13.5	0.0116	19	27	190	500/D
	2.5	1 / 1.78	0.8	1.5	0.6	0.8	1.8	14.0	0.0102	25	35	220	500/D
	2.5	7 / 0.67	0.8	1.5	0.6	0.8	1.8	15.0	0.0093	25	35	240	500/D
	4	1 / 2.25	0.9	2.5	0.6	0.8	1.8	15.5	0.0094	33	47	290	500/D
	4	7 / 0.85	0.9	2.5	0.6	0.8	1.8	16.5	0.0085	33	47	310	500/D
	6	7 / 1.04	0.9	4	0.6	0.8	1.8	18.0	0.0073	43	60	390	500/D
	10	7 / 1.35	1.1	4	0.6	0.8	1.8	19.5	0.0069	60	81	550	500/D
	16	7 / 1.70	1.1	6	0.6	0.8	2.0	22.5	0.0057	80	105	800	500/D
	25	7 / 2.14	1.3	6	0.6	1.2	2.0	27.0	0.0054	106	136	1,200	500/D
	35	19 / 1.53	1.3	10	0.6	1.2	2.0	29.0	0.0047	130	165	1,500	500/D
	50	19 / 1.78	1.5	10	0.6	1.2	2.2	33.5	0.0046	157	196	1,900	500/D
	70	19 / 2.14	1.5	10	0.6	1.5	2.2	38.0	0.0039	195	240	2,500	500/D
	95	19 / 2.52	1.7	16	0.6	1.5	2.2	42.5	0.0038	239	290	3,400	500/D
	120	37 / 2.03	1.7	16	0.6	1.5	2.4	46.5	0.0034	280	332	4,100	500/D
	150	37 / 2.25	1.9	25	0.6	1.8	2.6	52.0	0.0034	320	370	5,000	500/D
	185	37 / 2.52	2.1	25	0.6	1.8	2.8	57.0	0.0034	370	419	6,000	500/D
	240	61 / 2.25	2.3	35	0.6	2.0	3.0	64.0	0.0033	440	484	8,000	300/D
300	61 / 2.52	2.5	35	0.6	2.0	3.2	70.5	0.0032	507	547	10,000	300/D	
3	1	1 / 1.13	0.8	1	0.6	0.8	1.8	13.5	0.0141	12	18	190	500/D
	1	7 / 0.43	0.8	1	0.6	0.8	1.8	14.0	0.0135	12	18	200	500/D
	1.5	1 / 1.38	0.8	1	0.6	0.8	1.8	14.0	0.0123	16	22	210	500/D
	1.5	7 / 0.53	0.8	1	0.6	0.8	1.8	14.5	0.0116	16	22	230	500/D
	2.5	1 / 0.78	0.8	1.5	0.6	0.8	1.8	15.0	0.0102	21	30	270	500/D
	2.5	7 / 0.67	0.8	1.5	0.6	0.8	1.8	16.0	0.0093	21	30	290	500/D
	4	1 / 2.25	0.9	2.5	0.6	0.8	1.8	17.0	0.0094	28	39	360	500/D
	4	7 / 0.85	0.9	2.5	0.6	0.8	1.8	17.5	0.0085	28	39	380	500/D
	6	7 / 1.04	0.9	4	0.6	0.8	1.8	19.0	0.0073	37	50	490	500/D
	10	7 / 1.35	1.1	4	0.6	0.8	1.8	22.5	0.0069	50	68	700	500/D
	16	7 / 1.70	1.1	6	0.6	1.2	2.0	26.5	0.0057	67	87	1,000	500/D
	25	7 / 2.14	1.3	6	0.6	1.2	2.0	31.0	0.0054	89	113	1,400	500/D
	35	19 / 1.53	1.3	10	0.6	1.2	2.0	34.0	0.0047	109	137	1,800	500/D
	50	19 / 1.78	1.5	10	0.6	1.5	2.2	36.0	0.0046	131	162	2,400	500/D
	70	19 / 2.14	1.5	10	0.6	1.5	2.2	40.5	0.0039	163	200	3,200	500/D
	95	19 / 2.52	1.7	16	0.6	1.5	2.4	46.0	0.0038	202	240	4,300	500/D
	120	37 / 2.03	1.7	16	0.6	1.8	2.6	50.5	0.0034	235	273	5,500	500/D
	150	37 / 2.25	1.9	25	0.6	1.8	2.8	56.5	0.0034	269	306	6,500	500/D
	185	37 / 2.52	2.1	25	0.6	2.0	3.0	61.5	0.0034	311	346	8,000	300/D
	240	61 / 2.25	2.3	35	0.6	2.0	3.2	69.0	0.0033	371	402	10,500	300/D
300	61 / 2.52	2.5	35	0.6	2.2	3.4	76.0	0.0032	427	453	13,000	200/D	

# NYY-GRD, MEA TYPE C-GRD

**TIS 11-2531  
TABLE 14**

Number of core	Nominal cross section area (mm <sup>2</sup> )	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Nominal cross sectional area of ground conductor (m <sup>2</sup> )	Ground insulation thickness (mm)	Under sheath thickness (mm)	Sheath 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)
										Free air	Under ground		
4	1	1 / 1.13	0.8	1	0.6	0.8	1.8	14.0	0.0141	11	16	230	500/D
	1	7 / 0.43	0.8	1	0.6	0.8	1.8	14.5	0.0135	11	16	240	500/D
	1.5	1 / 1.38	0.8	1	0.6	0.8	1.8	15.0	0.0123	14	20	260	500/D
	1.5	7 / 0.53	0.8	1	0.6	0.8	1.8	15.5	0.0116	14	20	280	500/D
	2.5	1 / 1.78	0.8	1.5	0.6	0.8	1.8	16.0	0.0102	19	27	320	500/D
	2.5	7 / 0.67	0.8	1.5	0.6	0.8	1.8	17.0	0.0093	19	27	350	500/D
	4	1 / 2.25	0.9	2.5	0.6	0.8	1.8	18.0	0.0094	25	35	440	500/D
	4	7 / 0.85	0.9	2.5	0.6	0.8	1.8	19.0	0.0085	25	35	470	500/D
	6	7 / 1.04	0.9	4	0.6	0.8	1.8	20.5	0.0073	33	45	600	500/D
	10	7 / 1.35	1.1	4	0.6	0.8	2.0	25.0	0.0069	45	60	850	500/D
	16	7 / 1.70	1.1	6	0.6	1.2	2.0	28.5	0.0057	60	77	1,200	500/D
	25	7 / 2.14	1.3	6	0.6	1.2	2.0	33.5	0.0054	79	100	1,800	500/D
	35	19 / 1.53	1.3	10	0.6	1.5	2.2	38.5	0.0047	97	120	2,400	500/D
	50	19 / 1.78	1.5	10	0.6	1.5	2.2	43.0	0.0046	117	144	3,000	500/D
	70	19 / 2.14	1.5	10	0.6	1.5	2.4	44.5	0.0039	147	176	4,100	500/D
	95	19 / 2.52	1.7	16	0.6	1.8	2.6	51.5	0.0038	182	211	5,500	500/D
	120	37 / 2.03	1.7	16	0.6	1.8	2.8	56.0	0.0034	213	241	7,000	500/D
	150	37 / 2.25	1.9	25	0.6	2.0	3.0	62.0	0.0034	243	270	8,500	300/D
185	37 / 2.52	2.1	25	0.6	2.0	3.2	68.0	0.0034	282	306	10,500	300/D	
240	61 / 2.25	2.3	35	0.6	2.2	3.4	76.5	0.0033	335	354	13,500	200/D	
300	61 / 2.52	2.5	35	0.6	2.2	3.8	84.5	0.0032	385	399	16,500	200/D	

TISI PERMITTED TO INCREASE THE MAXIMUM OVERALL DIAMETER BY 5%

\*REMARK : SPECIAL PROTECTION CAN BE PRODUCED

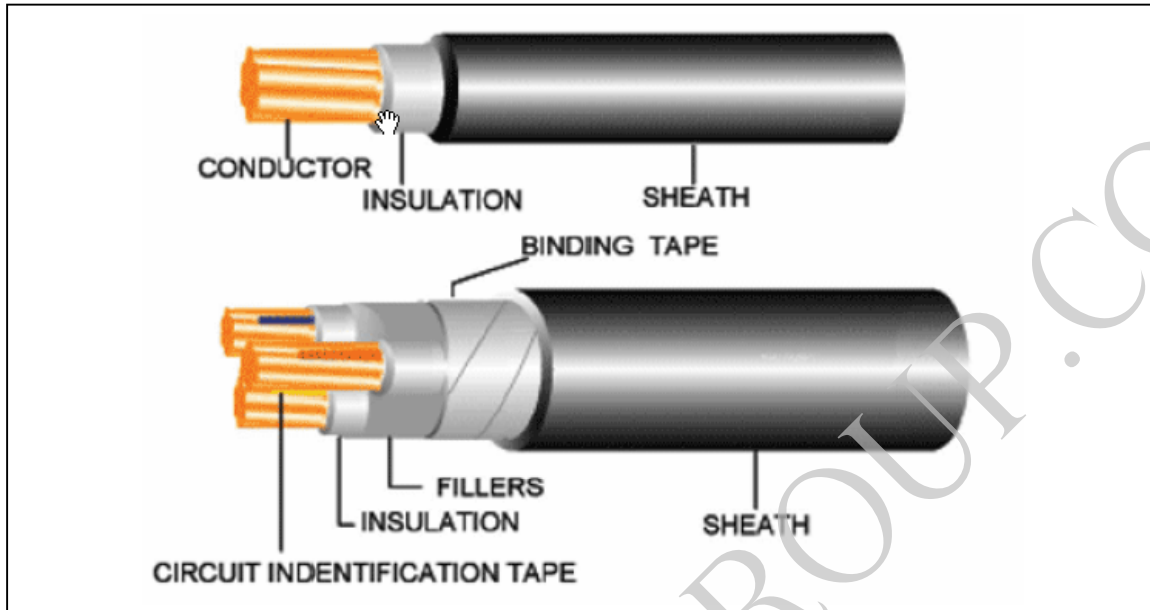
D : Packing in drum

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## 0.6 /1 KV-CV

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0.6/1 kV. 90 °C CROSS- LINKED POLYETHYLENE INSULATED PVC SHEATED POWERABLE



### CABLE STRUCTURE

<b>NUMBER OF CORE</b>	: up to 4 cores
<b>CONDUCTOR</b>	: Concentric stranded and compact round stranded annealed copper, Sizes. 1.5 mm <sup>2</sup> up to 1,000 mm <sup>2</sup>
<b>INSULATION</b>	: Cross-linked polyethylene Color : Natural (Translucent) Core identification: Compound color Black, White, Red, green or color tape
<b>SHEATH</b>	: PVC
<b>CLASSIFICATION</b>	: Maximum conductor temperature 90°C Circuit voltage not exceeding 1,000 volts
<b>TESTING VOLTAGE</b>	: 3,500 volts
<b>REFERENCE</b>	: IEC 60502-1



# 0.6/1KV-CV

IEC 60502-1 Standard

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Number of stranded (Min)	Insulation thickness (mm)	Sheath 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 (MΩ-Km)	Cable weight (approx.) (Kg/Km)	Standard length (m)
1	1.5	7/0.53	0.7	1.4	6.3	12.1	2,500	50	27	500/D
	2.5	7/0.67	0.7	1.4	6.8	7.41	2,100	60	36	500/D
	4	7/0.85	0.7	1.4	7.3	4.61	1,700	80	48	500/D
	6	7/1.04	0.7	1.4	7.9	3.08	1,450	100	61	500/D
	10	6	0.7	1.4	8.4	1.83	1,250	140	82	500/D
	16	6	0.7	1.4	9.4	1.15	1,000	200	110	500/D
	25	6	0.9	1.4	11.0	0.727	1,050	300	145	500/D
	35	6	0.9	1.4	12.0	0.524	900	400	180	500/D
	50	6	1.0	1.4	13.5	0.387	850	500	220	500/D
	70	12	1.1	1.4	15.0	0.268	800	750	280	500/D
	95	15	1.1	1.5	17.5	0.193	650	1,000	345	500/D
	120	18	1.2	1.5	19.0	0.153	650	1,200	400	500/D
	150	18	1.4	1.6	21	0.124	700	1,500	460	500/D
	185	30	1.6	1.6	23	0.0991	700	1,900	530	500/D
	240	34	1.7	1.7	26	0.0754	650	2,500	630	500/D
	300	34	1.8	1.8	29	0.0601	600	3,100	725	500/D
	400	53	2.0	1.9	32	0.0470	600	3,900	840	500/D
	500	53	2.2	2.0	36	0.0366	600	5,000	975	500/D
	630	53	2.4	2.2	40	0.0283	550	6,500	1,125	500/D
	800	53	2.6	2.3	45	0.0221	550	8,500	1,320	300/D
1,000	53	2.8	2.4	51	0.0176	500	10,500	1,510	300/D	
2	1.5	7/0.53	0.7	1.8	11.0	12.1	2,500	130	25	500/D
	2.5	7/0.67	0.7	1.8	12.0	7.41	2,100	160	34	500/D
	4	7/0.85	0.7	1.8	13.0	4.61	1,700	200	44	500/D
	6	7/1.04	0.7	1.8	14.0	3.08	1,450	260	57	500/D
	10	6	0.7	1.8	15.0	1.83	1,250	340	77	500/D
	16	6	0.7	1.8	17.0	1.15	1,000	480	100	500/D
	25	6	0.9	1.8	20	0.727	1,050	700	135	500/D
	35	6	0.9	1.8	23	0.524	900	900	165	500/D
	50	6	1.0	1.8	25	0.387	850	1,200	205	500/D
	70	12	1.1	1.8	29	0.268	800	1,700	255	500/D
	95	15	1.1	2.0	33	0.193	650	2,300	315	500/D
	120	18	1.2	2.1	37	0.153	650	2,800	365	500/D
	150	18	1.4	2.2	41	0.124	700	3,500	415	500/D
	185	30	1.6	2.3	45	0.0991	700	4,300	485	500/D
	240	34	1.7	2.5	51	0.0754	650	5,500	580	500/D
	300	34	1.8	2.7	56	0.0601	600	7,000	675	300/D
	400	53	2.0	2.9	63	0.0470	600	9,000	790	300/D

D : PACKING IN DRUM



# 0.6/1KV-CV

IEC 60502-1 Standard

Number of cores	Nominal cross sectional area (mm <sup>2</sup> )	Number of stranded (Min)	Insulation thickness (mm)	Sheath 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 (MΩ-Km)	Cable weight (approx.) (Kg/Km)	Standard length (m)
3	1.5	7/0.53	0.7	1.8	11.5	12.1	2,500	150	21	500/D
	2.5	7/0.67	0.7	1.8	12.5	7.41	2,100	190	28	500/D
	4	7/0.85	0.7	1.8	13.5	4.61	1,700	240	37	500/D
	6	7/1.04	0.7	1.8	15.0	3.08	1,450	320	48	500/D
	10	6	0.7	1.8	16.0	1.83	1,250	440	64	500/D
	16	6	0.7	1.8	18.0	1.15	1,000	650	86	500/D
	25	6	0.9	1.8	22	0.727	1,050	950	115	500/D
	35	6	0.9	1.8	24	0.524	900	1,300	140	500/D
	50	6	1.0	1.8	27	0.387	850	1,600	170	500/D
	70	12	1.1	1.9	31	0.268	800	2,300	215	500/D
	95	15	1.1	2.0	36	0.193	650	3,100	260	500/D
	120	18	1.2	2.1	39	0.153	650	4,000	305	500/D
	150	18	1.4	2.3	44	0.124	700	4,900	350	500/D
	185	30	1.6	2.4	49	0.0991	700	6,000	405	500/D
	240	34	1.7	2.6	55	0.0754	650	8,000	490	300/D
	300	34	1.8	2.8	61	0.0601	600	10,000	565	300/D
400	53	2.0	3.1	68	0.0470	600	12,500	655	200/D	
4	1.5	7/0.53	0.7	1.8	12.0	12.1	2,500	180	21	500/D
	2.5	7/0.67	0.7	1.8	13.5	7.41	2,100	230	28	500/D
	4	7/0.85	0.7	1.8	14.5	4.61	1,700	300	37	500/D
	6	7/1.04	0.7	1.8	16.0	3.08	1,450	400	48	500/D
	10	6	0.7	1.8	17.5	1.83	1,250	550	64	500/D
	16	6	0.7	1.8	20	1.15	1,000	800	86	500/D
	25	6	0.9	1.8	24	0.727	1,050	1,200	115	500/D
	35	6	0.9	1.8	27	0.524	900	1,600	140	500/D
	50	6	1.0	1.9	30	0.387	850	2,200	170	500/D
	70	12	1.1	2.0	35	0.268	800	3,000	215	500/D
	95	15	1.1	2.1	39	0.193	650	4,100	260	500/D
	120	18	1.2	2.3	44	0.153	650	5,000	305	500/D
	150	18	1.4	2.4	49	0.124	700	6,500	350	500/D
	185	30	1.6	2.6	54	0.0991	700	8,000	405	300/D
	240	34	1.7	2.8	61	0.0754	650	10,500	490	300/D
	300	34	1.8	3.0	68	0.0601	600	13,000	565	200/D
400	53	2.0	3.3	76	0.0470	600	16,500	655	200/D	

D : PACKING IN DRUM