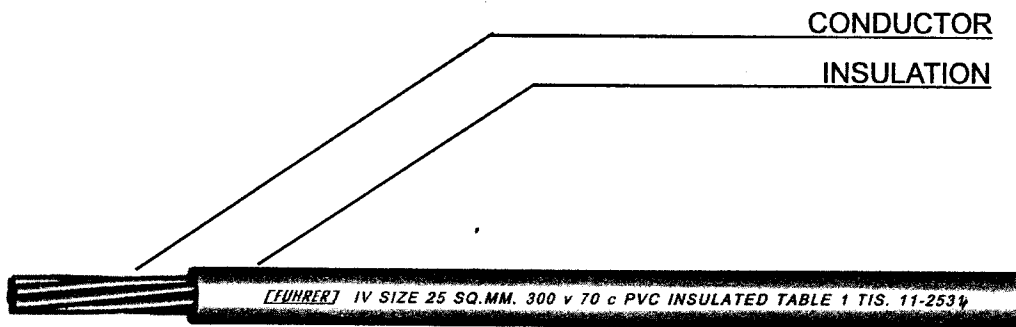


COPPER CONDUCTOR CABLES

Building Wires and Cables

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300 V 70°C PVC INSULATED, SINGLE CORE**CABLE STRUCTURE**

CONDUCTOR	:	Solid and stranded annealed copper, Sizes. 0.5 mm ² up to 150 mm ²
INSULATION	:	PVC Colour : 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



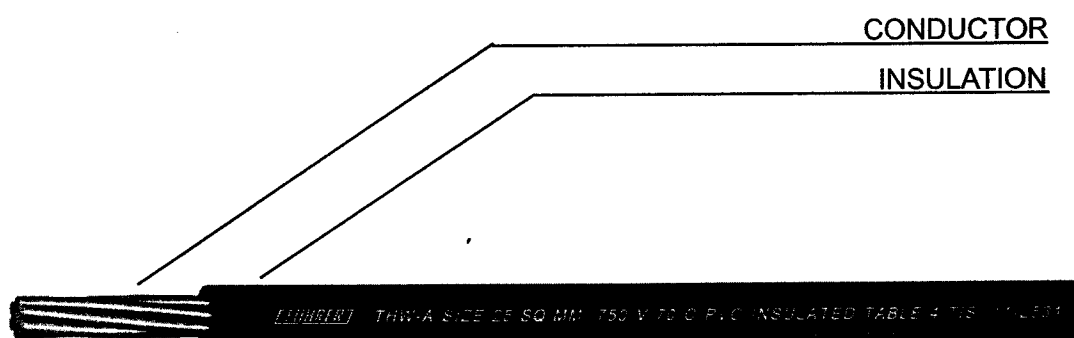
IV

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	7/0.40	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	7/0.50	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.



750 V 70°C PVC INSULATED, SINGLE CORE



CABLE STRUCTURE

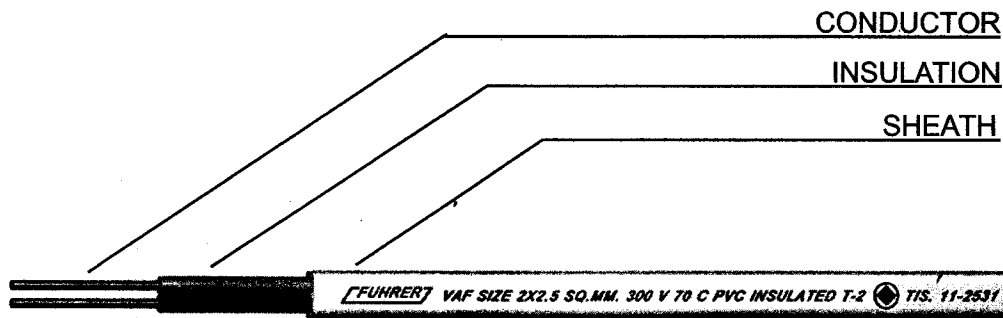
CONDUCTOR	: Solid and stranded annealed copper, Sizes 0.5 mm ² up to 500 mm ²
INSULATION	: PVC - Any colour
CLASSIFICATION	: Maximum conductor temperature 70°C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	: 2,500 volts
REFERENCE	: TIS 11-2531, Table 4



THW, MEA TYPE A

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 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 / 0.40	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 / 0.50	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.

300 V 70 °C PVC INSULATED AND SHEATHED FLAT TYPE**CABLE STRUCTURE**

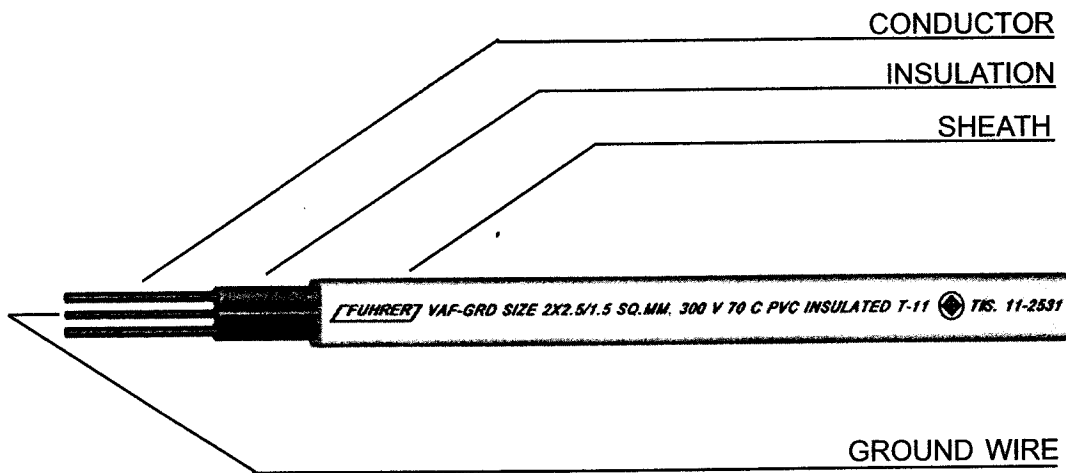
NUMBER OF CORE	:	2 cores
CONDUCTOR	:	Solid and stranded annealed copper, Sizes 0.5 mm ² up to 16 mm ²
INSULATION	:	PVC Colour : 2 cores – Light gray and Black
SHEATH	:	PVC Colour : White
CLASSIFICATION	:	Maximum conductor temperature 70°C Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	:	2,000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



VAF

Number of Cores	Nominal cross-section area (mm ²)	Number and diameter of wire (No./mm)	Insulation Thickness	Sheath Thickness	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	70	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	140	100/C
	4	7/0.85	0.8	1.2	6.2X10.0	7.6X12.0	0.0078	27	140	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	300	100/C
16	7/1.70	1.0	1.2	9.2X16.0	11.0X18.5	0.0053	65	440	100/C	

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

300 V 70 °C PVC INSULATED AND SHEATHED FLAT TYPE**CABLE STRUCTURE**

NUMBER OF CORE	: 2 cores with safety-ground
CONDUCTOR	: Solid and stranded annealed copper, sizes 1 mm ² up to 16 mm ²
GROUND WIRE	: Ground conductor size 1 mm ² up 6 mm ²
INSULATION	: PVC Colour : 2 core-Light grey and Black Ground core-Green/Yellow
SHEATH	: PVC Colour : 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

Number of cores	Nominal cross-sectional area	Number and diameter of wires	Insulation thickness	Nominal cross-sectional area of ground conductor	Ground insulation thickness	Sheath thickness	Overall diameter (mm)		Minimum insulation resistance @ 270°C	Maximum conductor diameter (mm) at 270°C	Capacitance (pF/m)	Standard length (m)
	(mm ²)						(Nominal)	(mm)				
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	0.0053	65	550	100/C

C: Packing in coil.