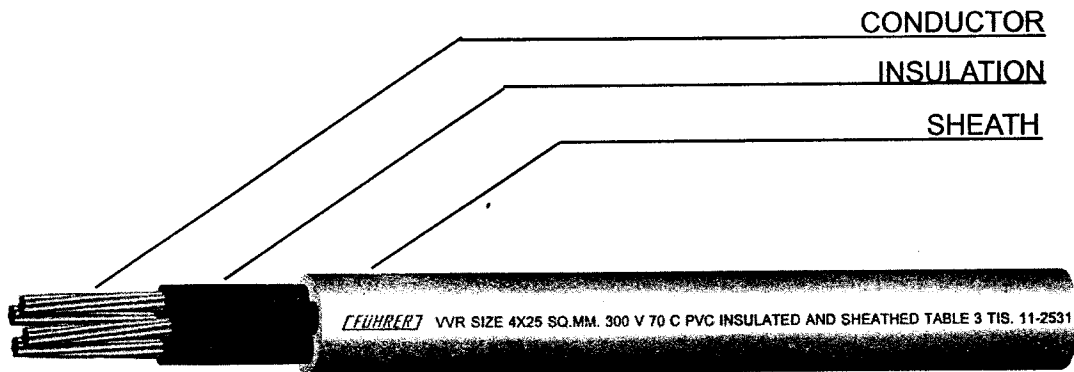


COPPER CONDUCTOR CABLES

Low Voltage Power Cables

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

NUMBER OF CORE	:	2-4 cores
CONDUCTOR	:	Solid and stranded annealed copper, Sizes. 0.5 mm ² up to 25 mm ²
INSULATION	:	PVC Colour : 2 cores – Light gray and Black 3 cores – Light gray, Black and Red 4 cores – Light gray, Black, Red and Blue
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 3



VVR

Number of core	Nominal cross section area (mm ²)	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)
2	0.5	1 / 0.80	0.6	0.9	6.8	0.0146	9	50	500/D
	1	1 / 1.13	0.6	0.9	7.6	0.0115	14	65	500/D
	1	7 / 0.40	0.6	0.9	8.0	0.0110	14	70	500/D
	1.5	1 / 1.38	0.6	1.2	8.8	0.0100	18	90	500/D
	1.5	7 / 0.50	0.6	1.2	9.2	0.0094	18	100	500/D
	2.5	1 / 1.78	0.7	1.2	10.0	0.0092	24	130	500/D
	2.5	7 / 0.67	0.7	1.2	11.0	0.0084	24	140	500/D
	4	1 / 2.25	0.8	1.2	11.5	0.0086	32	180	500/D
	4	7 / 0.85	0.8	1.2	12.5	0.0078	32	200	500/D
	6	7 / 1.04	0.8	1.2	13.5	0.0066	43	260	500/D
	10	7 / 1.35	0.9	1.2	16.0	0.0059	60	380	500/D
	16	7 / 1.70	1.0	1.4	19.0	0.0053	80	550	500/D
25	7 / 2.14	1.2	1.4	22.5	0.0051	107	850	500/D	
3	0.5	1 / 0.80	0.6	0.9	7.2	0.0146	7	55	500/D
	1	1 / 1.13	0.6	0.9	8.0	0.0115	11	75	500/D
	1	7 / 0.40	0.6	0.9	8.4	0.0110	11	85	500/D
	1.5	1 / 1.38	0.6	1.2	9.2	0.0100	15	110	500/D
	1.5	7 / 0.50	0.6	1.2	9.6	0.0094	15	120	500/D
	2.5	1 / 1.78	0.7	1.2	10.5	0.0092	20	160	500/D
	2.5	7 / 0.67	0.7	1.2	11.5	0.0084	20	170	500/D
	4	1 / 2.25	0.8	1.2	12.5	0.0086	27	230	500/D
	4	7 / 0.85	0.8	1.2	13.0	0.0078	27	240	500/D
	6	7 / 1.04	0.8	1.2	14.5	0.0066	36	320	500/D
	10	7 / 1.35	0.9	1.2	17.0	0.0059	50	490	500/D
	16	7 / 1.70	1.0	1.4	20.0	0.0053	67	750	500/D
25	7 / 2.14	1.2	1.8	25.0	0.0051	90	1,200	500/D	
4	0.5	1 / 0.80	0.6	0.9	7.8	0.0146	7	65	500/D
	1	1 / 1.13	0.6	0.9	8.6	0.0115	10	90	500/D
	1	7 / 0.40	0.6	0.9	9.0	0.0110	10	100	500/D
	1.5	1 / 1.38	0.6	1.2	10.0	0.0100	13	130	500/D
	1.5	7 / 0.50	0.6	1.2	10.5	0.0094	13	140	500/D
	2.5	1 / 1.78	0.7	1.2	11.5	0.0092	18	190	500/D
	2.5	7 / 0.67	0.7	1.2	12.5	0.0084	18	200	500/D
	4	1 / 2.25	0.8	1.2	13.5	0.0086	25	280	500/D
	4	7 / 0.85	0.8	1.2	14.0	0.0078	25	300	500/D
	6	7 / 1.04	0.8	1.2	15.5	0.0066	33	400	500/D
	10	7 / 1.35	0.9	1.4	19.0	0.0059	45	650	500/D
	16	7 / 1.70	1.0	1.4	22.0	0.0053	60	950	500/D
25	7 / 2.14	1.2	1.8	27.5	0.0051	81	1,500	500/D	

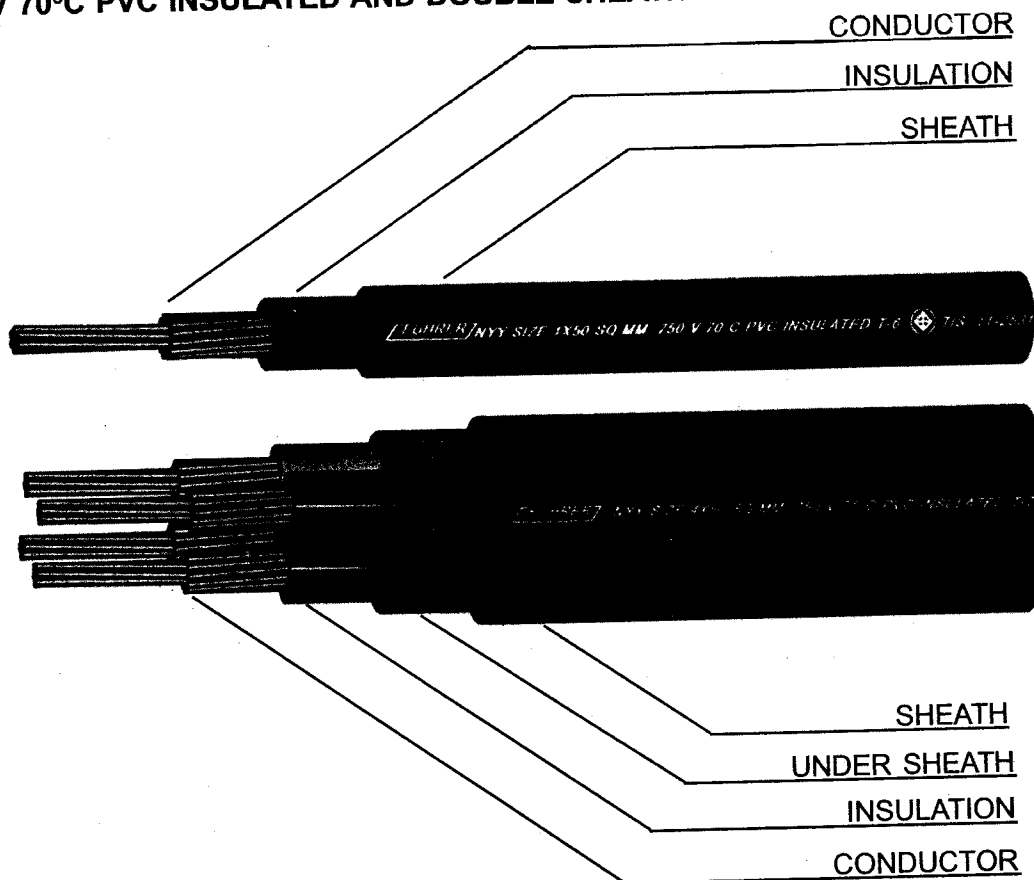
C: Packing in coil.
D: Packing in drum.

NYY, MEA TYPE C



TIS 11-2531
Table 6,7

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



CABLE STRUCTURE

NUMBER OF CORE	:	Up to 4 cores
CONDUCTOR	:	Solid and stranded annealed copper Sizes, Single core 1 mm ² up to 500 mm ² Multi core 1 mm ² up 240 mm ²
INSULATION	:	PVC Colour: 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 AND UNDER SHEATH	:	PVC Colour: Black
CLASSIFICATION	:	Maximum conductor temperature 70°C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	:	2,500 volts
REFERENCE	:	TIS 11-2531 Table 6 (Single core) TIS 11-2531 Table 7 (Multi core)



NYY, MEA TYPE C (SINGLE CORE)

Nominal Cross Sectional area (mm ²)	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 ground		
1	1 / 1.13	1.5	1.8	8.6	0.0207	17	22	80	100/C
1	7 / 0.40	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 / 0.50	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

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



NYY, MEA TYPE C (MULTI CORE)

Number of core	Nominal Cross Sectional area (mm ²)	Number and diameter of wires (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 / 0.40	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 / 0.50	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	
3	1	1 / 1.13	0.8	0.8	1.8	12.5	0.0141	12	18	180	100/C
	1	7 / 0.40	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 / 0.50	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	

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



NYY, MEA TYPE C (MULTI CORE)

Number of core	Nominal Cross Sectional area (mm ²)	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 (MO-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 / 0.40	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 / 0.50	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	51.5	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	

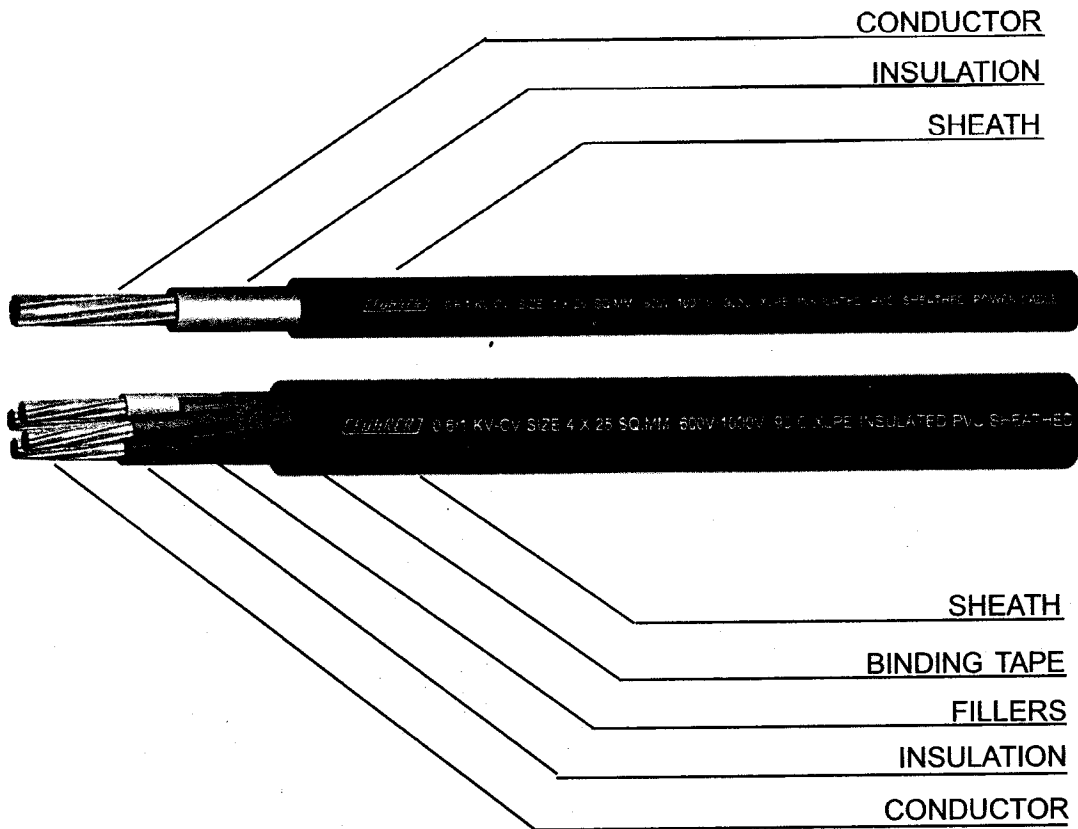
C: Packing in coil.
D: Packing in drum.

0.6/1 KV-CV



TIS 2143-2546
IEC 60502-1

600V/1000V 90°C CROSS-LINKED POLYETHYLENE INSULATED, PVC SHEATHED POWER CABLE



CABLE STRUCTURE

NUMBER OF CORE	Up to 4 cores
CONDUCTOR	: Concentric stranded and compact round stranded annealed copper, Sizes. 1.5 mm ² up to 630 mm ²
INSULATION	: Cross-linked polyethylene Colour : Natural (Translucent) Core identification: Compound color Black, White, Red, green or color tape
SHEATH	: PVC Colour : Black
CLASSIFICATION	: Maximum conductor temperature 90°C Circuit voltage not exceeding 1,200 volts
TESTING VOLTAGE	: 3,500 Volts
REFERENCE	: TIS 2143-2546 , IEC 60502-1



0.6/1KV-CV

Number of cores	Nominal cross sectional area (mm ²)	Number of stranded	Insulation thickness (mm)	Sheath thickness (mm)	Approx. Overall diameter (mm)	Maximum conductor resistance at 20°C (Ω/Km)	Minimum insulation resistance at 20°C (MO-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
1	1.5	7/0.53	0.7	1.4	6.3	12.1	2,500	27	50	500/D
	2.5	7/0.67	0.7	1.4	6.5	7.41	2,100	36	60	500/D
	4	7/0.85	0.7	1.4	7.0	4.61	1,700	48	80	500/D
	6	7/1.04	0.7	1.4	7.5	3.08	1,450	61	100	500/D
	10	6	0.7	1.4	8.1	1.83	1,250	82	140	500/D
	16	6	0.7	1.4	9.1	1.15	1,000	110	200	500/D
	25	6	0.9	1.4	11.0	0.727	1,050	145	300	500/D
	35	6	0.9	1.4	12.0	0.524	900	180	400	500/D
	50	6	1.0	1.4	13.5	0.387	850	220	500	500/D
	70	12	1.1	1.4	15.2	0.268	800	280	750	500/D
	95	15	1.1	1.5	17.5	0.193	650	345	1,000	500/D
	120	18	1.2	1.5	19	0.153	650	400	1,200	500/D
	150	18	1.4	1.6	21	0.124	700	460	1,500	500/D
	185	30	1.6	1.6	23	0.0991	700	530	1,900	500/D
	240	34	1.7	1.7	26	0.0754	650	630	2,500	500/D
	300	34	1.8	1.8	29	0.0601	600	725	3,100	500/D
	400	53	2.0	1.9	32	0.0470	600	840	3,900	500/D
500	53	2.2	2.0	36	0.0366	600	975	5,000	500/D	
630	53	2.4	2.2	40	0.0283	550	1,125	6,500	500/D	
2	1.5	7/0.53	0.7	1.8	11	12.1	2,500	25	130	500/D
	2.5	7/0.67	0.7	1.8	12	7.41	2,100	34	160	500/D
	4	7/0.85	0.7	1.8	13	4.61	1,700	44	200	500/D
	6	7/1.04	0.7	1.8	14	3.08	1,450	57	260	500/D
	10	6	0.7	1.8	15	1.83	1,250	77	340	500/D
	16	6	0.7	1.8	17	1.15	1,000	100	480	500/D
	25	6	0.9	1.8	20	0.727	1,050	135	700	500/D
	35	6	0.9	1.8	23	0.524	900	165	900	500/D
	50	6	1.0	1.8	25	0.387	850	205	1,200	500/D
	70	12	1.1	1.8	29	0.268	800	255	1,700	500/D
	95	15	1.1	2.0	33	0.193	650	315	2,300	500/D
	120	18	1.2	2.1	37	0.153	650	365	2,800	500/D
	150	18	1.4	2.2	41	0.124	700	415	3,500	500/D
	185	30	1.6	2.3	45	0.0991	700	485	4,300	500/D
240	34	1.7	2.5	51	0.0754	650	580	5,500	500/D	

D: Packing in drum.



0.6/1KV-CV

Number of cores	Nominal cross sectional area (mm ²)	Number of stranded	Insulation thickness (mm)	Sheath thickness (mm)	Approx. Overall diameter (mm)	Maximum conductor resistance at 20°C (MQ-Km)	Minimum insulation resistance at 20°C (MQ-Km)	Maximum continuous current rating in free air (MQ-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	21	150	500/D
	2.5	7/0.67	0.7	1.8	12.5	7.41	2,100	28	190	500/D
	4	7/0.85	0.7	1.8	13.5	4.61	1,700	37	240	500/D
	6	7/1.04	0.7	1.8	15	3.08	1,450	48	320	500/D
	10	6	0.7	1.8	16	1.83	1,250	64	440	500/D
	16	6	0.7	1.8	18	1.15	1,000	86	650	500/D
	25	6	0.9	1.8	22	0.727	1,050	115	950	500/D
	35	6	0.9	1.8	24	0.524	900	140	1,300	500/D
	50	6	1.0	1.8	27	0.387	850	170	1,600	500/D
	70	12	1.1	1.9	31	0.268	800	215	2,300	500/D
	95	15	1.1	2.0	36	0.193	650	260	3,100	500/D
	120	18	1.2	2.1	39	0.153	650	305	4,000	500/D
	150	18	1.4	2.3	44	0.124	700	350	4,900	500/D
	185	30	1.6	2.4	49	0.0991	700	405	6,000	500/D
240	34	1.7	2.6	55	0.0754	650	490	8,000	300/D	
4	1.5	7/0.53	0.7	1.8	12	12.1	2,500	21	180	500/D
	2.5	7/0.67	0.7	1.8	13.5	7.41	2,100	28	230	500/D
	4	7/0.85	0.7	1.8	14.5	4.61	1,700	37	300	500/D
	6	7/1.04	0.7	1.8	16	3.08	1,450	48	400	500/D
	10	6	0.7	1.8	17.5	1.83	1,250	64	550	500/D
	16	6	0.7	1.8	20	1.15	1,000	86	800	500/D
	25	6	0.9	1.8	24	0.727	1,050	115	1,200	500/D
	35	6	0.9	1.8	27	0.524	900	140	1,600	500/D
	50	6	1.0	1.9	30	0.387	850	170	2,200	500/D
	70	12	1.1	2.0	35	0.268	800	215	3,000	500/D
	95	15	1.1	2.1	39	0.193	650	260	4,100	500/D
	120	18	1.2	2.3	44	0.153	650	305	5,000	500/D
	150	18	1.4	2.4	49	0.124	700	350	6,500	500/D
	185	30	1.6	2.6	54	0.0991	700	405	8,000	300/D
240	34	1.7	2.8	61	0.0754	650	490	10,500	300/D	

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