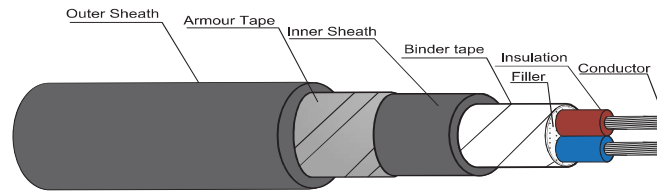


FD-0.6/1KV-AL-CV-STA



**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
Multi-core : Sizes 10 mm² up to 400 mm²

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
2 cores : Blue, Brown

Inner Sheath : Black polyvinyl chloride (PVC)

Aarmor : 2 Layers galvanized steel 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

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)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. of Inner sheath approx. (mm)	Aarmor 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)
2	10	6	0.7	1.2	14.0	0.2	1.8	19.0	3.08	1,250	63	71	500	500/D
	16	6	0.7	1.2	16.0	0.2	1.8	21	1.91	1,000	84	93	600	500/D
	25	6	0.9	1.2	19.0	0.2	1.8	24	1.20	1,050	111	120	750	500/D
	35	6	0.9	1.2	21	0.2	1.8	27	0.868	900	136	144	900	500/D
	50	6	1.0	1.2	24	0.2	1.9	29	0.641	850	164	170	1,100	500/D
	70	12	1.1	1.2	28	0.2	2.0	33	0.443	800	207	208	1,400	500/D
	95	15	1.1	1.2	31	0.5	2.1	38	0.320	650	256	250	1,900	500/D
	120	15	1.2	1.2	35	0.5	2.3	42	0.253	650	297	285	2,300	500/D
	150	15	1.4	1.3	39	0.5	2.4	46	0.206	700	337	318	2,700	500/D
	185	30	1.6	1.3	43	0.5	2.6	51	0.164	700	388	359	3,200	500/D
	240	30	1.7	1.4	49	0.5	2.8	57	0.125	650	461	417	3,900	500/D
	300	30	1.8	1.5	54	0.5	2.9	62	0.100	600	530	470	4,600	500/D
	400	53	2.0	1.7	61	0.5	3.2	70	0.0778	600	615	535	5,500	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)
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

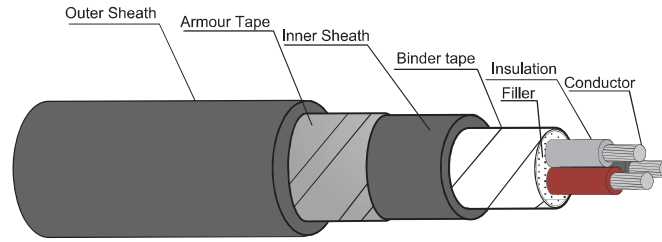
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

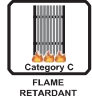
FD-0.6/1KV-AL-CV-STA



**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
Multi-core : Sizes 10 mm² up to 400 mm²

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
3 cores : Brown, Black, Grey

Inner Sheath : Black polyvinyl chloride (PVC)

Aarmor : 2 Layers galvanized steel 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

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)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. of Inner sheath approx. (mm)	Aarmor 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	6	0.7	1.2	15.0	0.2	1.8	20	3.08	1,250	53	60	550	500/D
	16	6	0.7	1.2	17.0	0.2	1.8	22	1.91	1,000	71	78	700	500/D
	25	6	0.9	1.2	21	0.2	1.8	26	1.20	1,050	95	101	800	500/D
	35	6	0.9	1.2	23	0.2	1.8	28	0.868	900	116	121	1,100	500/D
	50	6	1.0	1.2	26	0.2	1.9	31	0.641	850	140	143	1,300	500/D
	70	12	1.1	1.2	30	0.2	2.1	36	0.443	800	176	176	1,700	500/D
	95	15	1.1	1.2	33	0.5	2.2	40	0.320	650	217	211	2,300	500/D
	120	15	1.2	1.2	37	0.5	2.4	44	0.253	650	252	240	2,700	500/D
	150	15	1.4	1.3	41	0.5	2.5	49	0.206	700	287	268	3,200	500/D
	185	30	1.6	1.4	46	0.5	2.7	54	0.164	700	331	304	3,900	500/D
	240	30	1.7	1.5	52	0.5	2.9	61	0.125	650	393	352	4,900	500/D
	300	30	1.8	1.6	58	0.5	3.1	67	0.100	600	451	397	6,000	500/D
	400	53	2.0	1.8	65	0.5	3.3	75	0.0778	600	525	453	7,000	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

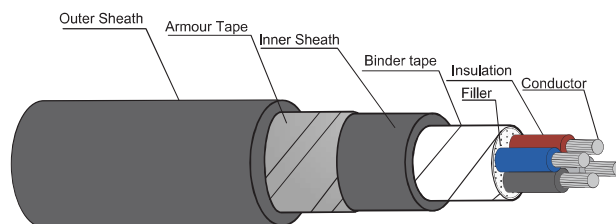
D : Packing in drum

FD-0.6/1KV-AL-CV-STA



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
Multi-core : Sizes 10 mm² up to 400 mm²

Insulation : Cross-Linked polyethylene (XLPE)

Core identification

4 cores : Blue, Brown, Black, Grey

Inner Sheath : Black polyvinyl chloride (PVC)

Armor : 2 Layers galvanized steel 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

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1, IEC 60228, IEC 60332-1
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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)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. of Inner sheath approx. (mm)	Aarmor 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)
4	10	6	0.7	1.2	16.0	0.2	1.8	21	3.08	1,250	53	60	650	500/D
	16	6	0.7	1.2	18.5	0.2	1.8	24	1.91	1,000	71	78	800	500/D
	25	6	0.9	1.2	23	0.2	1.8	28	1.20	1,050	95	101	1,050	500/D
	35	6	0.9	1.2	25	0.2	1.9	31	0.868	900	116	121	1,250	500/D
	50	6	1.0	1.2	28	0.2	2.0	34.0	0.641	850	140	143	1,600	500/D
	70	12	1.1	1.2	33	0.5	2.2	40	0.443	800	176	176	2,300	500/D
	95	15	1.1	1.2	37	0.5	2.3	44	0.320	650	217	211	2,800	500/D
	120	15	1.2	1.3	42	0.5	2.5	49	0.253	650	252	240	3,300	500/D
	150	15	1.4	1.4	46	0.5	2.7	54	0.206	700	287	268	3,400	500/D
	185	30	1.6	1.5	52	0.5	2.9	60	0.164	700	331	304	4,800	500/D
	240	30	1.7	1.6	58	0.5	3.1	67	0.125	650	393	352	6,000	500/D
	300	30	1.8	1.7	65	0.5	3.3	74	0.100	600	451	397	7,000	300/D
	400	53	2.0	1.9	73	0.5	3.6	83	0.0778	600	525	453	9,000	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
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	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
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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