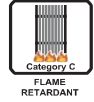
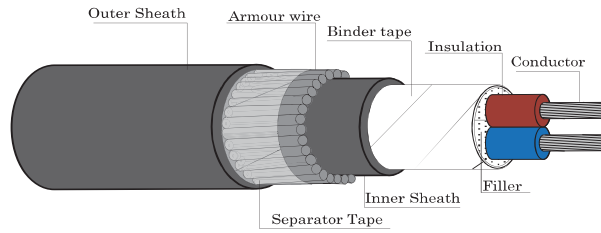


FD-0.6/1KV-AL-CV-SWA



0.6/1 kV 90 °C ALUMINIUM CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED
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)

Armor : Galvanized steel wires

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)	Diameter of steel wire armor 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)
2	10	6	0.7	1.2	14.0	1.25	1.8	20	3.08	1,250	64	72	700	500/D
	16	6	0.7	1.2	16.0	1.60	1.8	23	1.91	1,000	86	94	950	500/D
	25	6	0.9	1.2	19.0	1.60	1.8	26	1.20	1,050	114	121	1200	500/D
	35	6	0.9	1.2	22	2.00	1.8	29	0.868	900	141	146	1600	500/D
	50	6	1.0	1.2	24	2.00	1.9	32	0.641	850	169	172	1800	500/D
	70	12	1.1	1.2	28	2.00	2.0	37	0.443	800	213	211	2,200	500/D
	95	15	1.1	1.2	31	2.00	2.1	40	0.320	650	260	252	2,600	500/D
	120	15	1.2	1.2	35	2.00	2.3	44	0.253	650	302	286	3,100	500/D
	150	15	1.4	1.3	38	2.50	2.4	49	0.206	700	344	320	3,900	500/D
	185	30	1.6	1.3	43	2.50	2.6	54	0.164	700	396	362	4,600	500/D
	240	30	1.7	1.4	49	2.50	2.7	60	0.125	650	469	419	5,500	500/D
	300	30	1.8	1.5	54	2.50	2.9	65	0.100	600	537	472	6,500	500/D
	400	53	2.0	1.7	61	2.50	3.2	73	0.0778	600	622	536	7,500	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

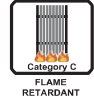
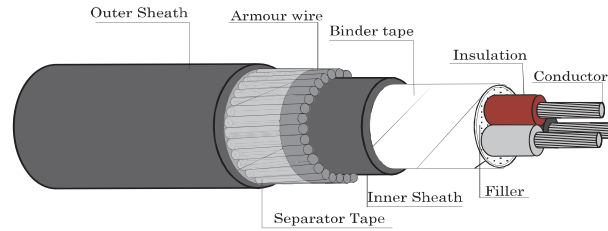
D : Packing in drum

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



0.6/1 kV 90 °C ALUMINIUM CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED
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 : Galvanized steel wires

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	Number of wires minimum	Insulation thickness nominal	Inner Sheath thickness approx.	Dia. Of Inner sheath approx.	Diameter of steel wire armor nominal	Outer sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 20°C minimum	Continuous current rating in free air at 40°C maximum	Continuous current rating in ground at 30°C maximum	Cable weight approx.	Standard Length
	(mm ²)	(No.)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(A)	(A)	(kg/km)	(m)
3	10	6	0.7	1.2	15.0	1.25	1.8	21	3.08	1,250	55	61	750	500/D
	16	6	0.7	1.2	17.0	1.60	1.8	24	1.91	1,000	73	79	1050	500/D
	25	6	0.9	1.2	21	1.60	1.8	28	1.20	1,050	97	102	1350	500/D
	35	6	0.9	1.2	23	2.00	1.8	31	0.868	900	120	123	1750	500/D
	50	6	1.0	1.2	26	2.00	2.0	34	0.641	850	144	145	2100	500/D
	70	12	1.1	1.2	30	2.00	2.1	39	0.443	800	181	177	2,600	500/D
	95	15	1.1	1.2	33	2.00	2.2	42	0.320	650	221	212	3,000	500/D
	120	15	1.2	1.2	37	2.50	2.3	48	0.253	650	258	242	4,000	500/D
	150	15	1.4	1.3	41	2.50	2.5	52	0.206	700	292	269	4,600	500/D
	185	30	1.6	1.4	46	2.50	2.7	58	0.164	700	336	304	5,500	500/D
	240	30	1.7	1.5	52	2.50	2.9	64	0.125	650	397	351	6,500	500/D
	300	30	1.8	1.6	58	2.50	3.0	70	0.100	600	454	394	7,500	300/D
	400	53	2.0	1.8	65	3.15	3.4	80	0.0778	600	524	444	10,000	300/D

Number of cores	Nominal cross sectional area	A.C.Resistance R	Inductance L	Reactance XL	Impedance Z
	(mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(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

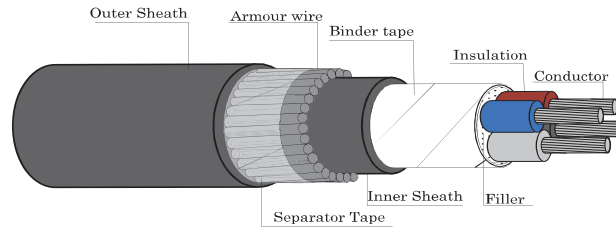
D : Packing in drum

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



0.6/1 kV 90 °C ALUMINIUM CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED
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 : Galvanized steel wires

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)	Diameter of steel wire armor 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	1.60	1.8	23	3.08	1,250	55	61	1,000	500/D
	16	6	0.7	1.2	18.5	1.60	1.8	26	1.91	1,000	73	79	1,200	500/D
	25	6	0.9	1.2	22	2.00	1.8	31	1.20	1,050	97	102	1,700	500/D
	35	6	0.9	1.2	25	2.00	1.9	34	0.868	900	120	123	2,000	500/D
	50	6	1.0	1.2	28	2.00	2.1	37	0.641	850	144	145	2,400	500/D
	70	12	1.1	1.2	33	2.00	2.2	42	0.443	800	181	177	3,000	500/D
	95	15	1.1	1.2	37	2.50	2.3	47	0.320	650	221	212	4,000	500/D
	120	15	1.2	1.3	42	2.50	2.5	52	0.253	650	258	242	4,700	500/D
	150	15	1.4	1.4	46	2.50	2.7	57	0.206	700	292	269	5,500	500/D
	185	30	1.6	1.5	52	2.50	2.8	63	0.164	700	336	304	6,500	500/D
	240	30	1.7	1.6	58	2.50	3.1	71	0.125	650	397	351	8,000	300/D
	300	30	1.8	1.7	65	3.15	3.3	79	0.100	600	454	394	10,000	300/D
	400	53	2.0	1.9	73	3.15	3.4	87	0.0778	600	524	444	12,000	200/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
	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