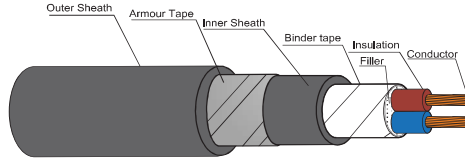


FD-0.6/1KV-CV-STA

0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED STEEL TAPE ARMOUR FLAME RETARDANT POWER CABLE



IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
: Multi-core : Sizes 1.5 mm² up to 400 mm²
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 2 Cores: Blue, Brown
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : Two galvanized flat 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

B

Number of cores	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Inner Sheath thickness approx.	Dia. Of inner sheath approx.	Armor thickness nominal	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 maximum	Cable weight approx.	Standard Length
2	1.5	Non-Compacted	0.7	1.2	9.70	0.2	1.8	15.0	12.1	2,500	28	33	330	500/D
	2.5	Non-Compacted	0.7	1.2	10.5	0.2	1.8	16.0	7.41	2,100	37	43	380	500/D
	4	Non-Compacted	0.7	1.2	11.5	0.2	1.8	17.0	4.61	1,700	48	56	440	500/D
	6	Non-Compacted	0.7	1.2	12.5	0.2	1.8	18.0	3.08	1,450	61	70	500	500/D
	10	Compacted	0.7	1.2	13.5	0.2	1.8	19.0	1.83	1,250	82	92	600	500/D
	16	Compacted	0.7	1.2	16.0	0.2	1.8	21	1.190	1,000	108	120	800	500/D
	25	Compacted	0.9	1.2	19.0	0.2	1.8	24	0.727	1,050	144	154	1100	500/D
	35	Compacted	0.9	1.2	21	0.2	1.8	26	0.524	900	176	185	1300	500/D
	50	Compacted	1.0	1.2	24	0.2	1.9	30	0.387	850	213	219	1700	500/D
	70	Compacted	1.1	1.2	28	0.2	2.0	33	0.268	800	267	268	2200	500/D
	95	Compacted	1.1	1.2	31	0.5	2.2	38	0.193	650	331	322	3100	500/D
	120	Compacted	1.2	1.2	35	0.5	2.3	42	0.153	650	383	386	3800	500/D
	150	Compacted	1.4	1.3	39	0.5	2.4	46	0.124	700	435	409	4500	500/D
	185	Compacted	1.6	1.3	43	0.5	2.6	51	0.0891	700	500	461	5400	500/D
	240	Compacted	1.7	1.4	49	0.5	2.8	57	0.0754	650	590	531	6900	500/D
	300	Compacted	1.8	1.5	54	0.5	2.9	62	0.0601	600	676	596	8300	500/D
400	Compacted	2.0	1.7	61	0.5	3.2	70	0.0470	600	765	664	10500	500/D	

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

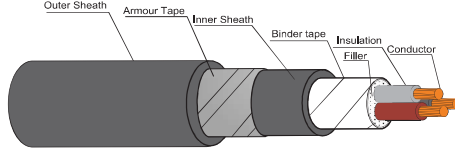
D : Packing in drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area	A.C Resistance		Inductance	Reactance	Impedance
		R	L			
	(mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)	(Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291	
	2.5	9.4485	0.3249	0.1021	9.4491	
	4	5.8782	0.3026	0.0951	5.8790	
	6	3.9273	0.2890	0.0908	3.9284	
	10	2.3335	0.2747	0.0863	2.3351	
	16	1.4665	0.2614	0.0821	1.4688	
	25	0.9272	0.2637	0.0829	0.9309	
	35	0.6694	0.2567	0.0807	0.6733	
	50	0.4938	0.2435	0.0765	0.4957	
	70	0.3423	0.2395	0.0752	0.3504	
	95	0.2468	0.2331	0.0732	0.2575	
	120	0.1960	0.2289	0.0719	0.2088	
	150	0.1593	0.2302	0.0723	0.1749	
	185	0.1278	0.2326	0.0731	0.1472	
	240	0.0981	0.2281	0.0717	0.1215	
	300	0.0791	0.2260	0.0710	0.1063	
400	0.0630	0.2259	0.0710	0.0949		

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED STEEL TAPE ARMOUR FLAME RETARDANT POWER CABLE

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
: Multi-core : Sizes 1.5 mm² up to 400 mm²
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 3 Cores: Brown, Black, Grey
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : Two galvanized flat 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 volt** : 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)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Armor thickness nominal (mm)	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	1.5	Non-Compacted	0.7	1.2	10.0	0.2	1.8	15.5	12.1	2,500	24	28	370	500/D
	2.5	Non-Compacted	0.7	1.2	11.0	0.2	1.8	16.5	7.41	2,100	31	37	420	500/D
	4	Non-Compacted	0.7	1.2	12.0	0.2	1.8	17.5	4.61	1,700	41	48	500	500/D
	6	Non-Compacted	0.7	1.2	13.5	0.2	1.8	19.0	3.08	1,450	52	59	600	500/D
	10	Compacted	0.7	1.2	14.5	0.2	1.8	20	1.83	1,250	69	78	700	500/D
	16	Compacted	0.7	1.2	17.0	0.2	1.8	22	1.150	1,000	91	101	1000	500/D
	25	Compacted	0.9	1.2	20	0.2	1.8	26	0.727	1,050	122	130	1300	500/D
	35	Compacted	0.9	1.2	23	0.2	1.9	28	0.524	900	149	156	1700	500/D
	50	Compacted	1.0	1.2	26	0.2	2.0	31	0.387	850	181	185	2200	500/D
	70	Compacted	1.1	1.2	30	0.2	2.1	36	0.268	800	227	226	2900	500/D
	95	Compacted	1.1	1.2	34	0.5	2.3	41	0.193	650	281	272	4000	500/D
	120	Compacted	1.2	1.2	37	0.5	2.4	45	0.153	650	325	309	5000	500/D
	150	Compacted	1.4	1.3	41	0.5	2.5	49	0.124	700	370	345	6000	500/D
	185	Compacted	1.6	1.4	47	0.5	2.7	55	0.0991	700	426	389	7500	500/D
	240	Compacted	1.7	1.5	53	0.5	2.9	61	0.0754	650	504	449	9500	300/D
	300	Compacted	1.8	1.6	58	0.5	3.1	67	0.0601	600	576	504	11500	300/D
400	Compacted	2.0	1.8	65	0.5	3.4	75	0.0470	600	662	567	14500	300/D	

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

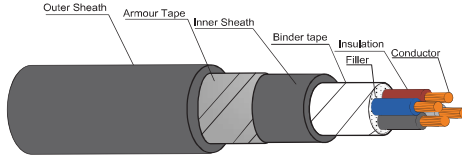
D : Packing in drum

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	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4668
	25	0.9272	0.2637	0.0839	0.9309
	35	0.6685	0.2567	0.0807	0.6733
	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2289	0.0719	0.2091
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1283	0.2326	0.0731	0.1476
	240	0.0987	0.2281	0.0717	0.1219
	300	0.0798	0.2260	0.0710	0.1068
400	0.0639	0.2259	0.0710	0.0955	



0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED STEEL TAPE ARMOUR FLAME RETARDANT POWER CABLE

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
: Multi-core : Sizes 1.5 mm² up to 400 mm²
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 4 Cores: Blue, Brown, Black, Grey
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : Two galvanized flat 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)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Armor thickness nominal (mm)	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	1.5	Non-Compacted	0.7	1.2	11.0	0.2	1.6	16.0	12.1	2,500	24	28	410	500/D
	2.5	Non-Compacted	0.7	1.2	12.0	0.2	1.6	17.5	7.41	2,100	31	37	460	500/D
	4	Non-Compacted	0.7	1.2	13.5	0.2	1.6	18.5	4.61	1,700	41	48	550	500/D
	6	Non-Compacted	0.7	1.2	15.0	0.2	1.6	20	3.08	1,450	52	59	700	500/D
	10	Compacted	0.7	1.2	16.0	0.2	1.6	22	1.83	1,250	69	78	850	500/D
	16	Compacted	0.7	1.2	18.5	0.2	1.6	23	1,150	1,000	91	101	1,200	500/D
	25	Compacted	0.9	1.2	22	0.2	1.6	28	0.727	1,050	122	130	1,700	500/D
	35	Compacted	0.9	1.2	25	0.2	1.9	30	0.524	900	149	156	2,100	500/D
	50	Compacted	1.0	1.2	28	0.2	2.1	34	0.387	850	181	165	2,700	500/D
	70	Compacted	1.1	1.2	33	0.5	2.2	40	0.268	800	227	226	3,900	500/D
	95	Compacted	1.1	1.2	37	0.5	2.4	45	0.193	850	281	272	5,000	500/D
	120	Compacted	1.2	1.3	42	0.5	2.5	49	0.153	850	325	309	6,500	500/D
	150	Compacted	1.4	1.4	46	0.5	2.7	54	0.124	700	370	345	7,500	500/D
	185	Compacted	1.6	1.5	52	0.5	2.9	61	0.0991	700	428	389	9,500	500/D
	240	Compacted	1.7	1.6	59	0.5	3.1	68	0.0754	850	534	449	12,000	500/D
	300	Compacted	1.8	1.7	65	0.5	3.4	74	0.0601	800	576	504	14,500	500/D
400	Compacted	2.0	1.9	73	0.5	3.6	83	0.0470	600	662	567	18,500	500/D	

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

D : Packing in drum

Depth of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area (mm ²)	A.C Resistance		Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
		R (Ω/km)	X (Ω/km)			
4	1.5	15.4267	0.3427	0.1077	15.4291	
	2.5	9.4485	0.3249	0.1021	9.4481	
	4	5.8782	0.3026	0.0951	5.8790	
	6	3.9274	0.2890	0.0908	3.9284	
	10	2.3335	0.2747	0.0863	2.3351	
	16	1.4665	0.2614	0.0821	1.4688	
	25	0.9272	0.2637	0.0829	0.9309	
	35	0.6806	0.2567	0.0807	0.6733	
	50	0.4939	0.2435	0.0765	0.4998	
	70	0.3424	0.2395	0.0752	0.3506	
	95	0.2471	0.2331	0.0732	0.2577	
	120	0.1864	0.2289	0.0719	0.2091	
	150	0.1597	0.2302	0.0723	0.1753	
	185	0.1283	0.2326	0.0731	0.1476	
	240	0.0987	0.2281	0.0717	0.1219	
	300	0.0798	0.2290	0.0710	0.1068	
400	0.0639	0.2259	0.0710	0.0955		