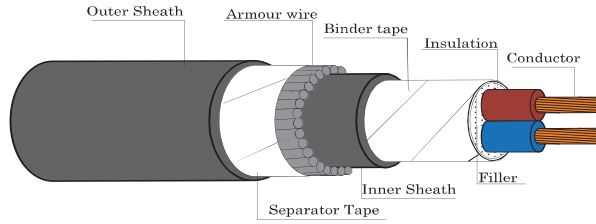


# FD-0.6/1KV-CV-SWA

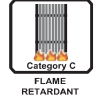


0.6/1 KV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546



## CABLE STRUCTURE

**Conductor** : Non-compacted and compacted round annealed copper

**Insulation** : Cross-Linked polyethylene (XLPE)

**Core identification** : 2 Cores: Blue, Brown

**Inner Sheath**: Black polyvinyl chloride (PVC)

**Armour** : 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 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	Conductor type	Insulation thickness nominal	Inner Sheath thickness approx.	Dia. Of inner sheath approx.	Diameter of steel wire armor 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 30°C maximum	Cable weight approx.	Standard Length
2	1.5	Non-Compacted	0.7	1.2	9.7	0.8	1.8	15.0	12.1	2,500	28	33	380	500/D
	2.5	Non-Compacted	0.7	1.2	10.5	0.8	1.8	16.5	7.41	2,100	37	43	420	500/D
	4	Non-Compacted	0.7	1.2	11.5	1.25	1.8	18.0	4.61	1,700	50	57	600	500/D
	6	Non-Compacted	0.7	1.2	12.5	1.25	1.8	19.5	3.08	1,450	63	71	700	500/D
	10	Compacted	0.7	1.2	14.0	1.25	1.8	20	1.83	1,250	83	93	800	500/D
	16	Compacted	0.7	1.2	16.0	1.25	1.8	23	1.150	1,000	111	121	1,200	500/D
	25	Compacted	0.9	1.2	19.0	1.6	1.8	26	0.727	1,050	147	156	1,500	500/D
	35	Compacted	0.9	1.2	22	2.0	1.8	30	0.524	900	182	188	2,000	500/D
	50	Compacted	1.0	1.2	24	2.0	1.9	33	0.387	850	219	222	2,400	500/D
	70	Compacted	1.1	1.2	28	2.0	2.0	36	0.268	800	275	271	3,100	500/D
	95	Compacted	1.1	1.2	32	2.0	2.1	40	0.193	650	337	325	3,800	500/D
	120	Compacted	1.2	1.2	35	2.0	2.3	44	0.153	650	389	368	4,600	500/D
	150	Compacted	1.4	1.3	39	2.0	2.4	48	0.124	700	444	412	6,000	500/D
	185	Compacted	1.6	1.3	43	2.5	2.6	54	0.0991	700	509	463	7,000	500/D
	240	Compacted	1.7	1.4	49	2.5	2.7	60	0.0754	650	600	534	8,500	500/D
	300	Compacted	1.8	1.5	54	2.5	2.9	66	0.0601	600	684	597	10,000	300/D
	400	Compacted	2.0	1.7	61	2.5	3.2	73	0.0470	600	783	670	12,500	300/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 (Ω/km)	L (mH/km)	XL (Ω/km)	Z (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	0.6684	0.2567	0.0807	0.6733				
	50	0.4938	0.2435	0.0765	0.4997				
	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				



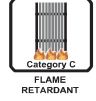
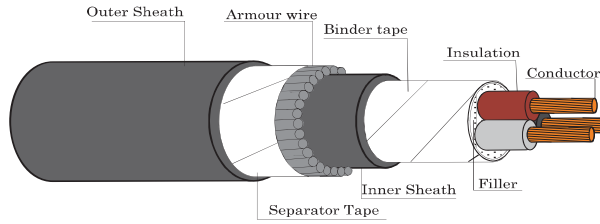
# FD-0.6/1KV-CV-SWA



0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT POWER CABLE

IEC 60502-1

TIS 2143-2546



## CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 3 Cores: Brown, Black, Grey
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : 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 voltag** : 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.	Diameter of steel wire armor 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 30°C maximum	Cable weight approx.	Standard Length
3	1.5	Non-Compacted	0.7	1.2	10.0	0.8	1.8	16.0	12.1	2,500	24	26	400	500/D
	2.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	18.0	7.41	2,100	32	34	550	500/D
	4	Non-Compacted	0.7	1.2	12.0	1.25	1.8	19.0	4.61	1,700	42	44	650	500/D
	6	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20	3.08	1,450	53	55	800	500/D
	10	Compacted	0.7	1.2	14.5	1.6	1.8	21	1.83	1,250	71	72	950	500/D
	16	Compacted	0.7	1.2	17.0	1.6	1.8	24	1.150	1,000	94	93	1,300	500/D
	25	Compacted	0.9	1.2	21	2.0	1.8	28	0.727	1,050	125	120	1,800	500/D
	35	Compacted	0.9	1.2	23	2.0	1.8	31	0.524	900	154	145	2,400	500/D
	50	Compacted	1.0	1.2	26	2.0	2.0	34	0.387	850	186	171	3,000	500/D
	70	Compacted	1.1	1.2	30	2.0	2.1	39	0.268	800	233	208	3,800	500/D
	95	Compacted	1.1	1.2	34	2.0	2.2	43	0.193	650	286	249	4,800	500/D
	120	Compacted	1.2	1.2	38	2.0	2.3	47	0.153	650	332	283	6,000	500/D
	150	Compacted	1.4	1.3	42	2.5	2.5	52	0.124	700	376	315	7,500	500/D
	185	Compacted	1.6	1.4	47	2.5	2.7	58	0.0991	700	430	354	9,000	500/D
	240	Compacted	1.7	1.5	53	2.5	2.9	64	0.0754	650	505	406	11,000	300/D
	300	Compacted	1.8	1.6	58	2.5	3.0	70	0.0601	600	574	453	13,500	300/D
400	Compacted	2.0	1.8	65	3.15	3.4	80	0.0470	600	652	501	17,500	300/D	

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

D : Packing in drum

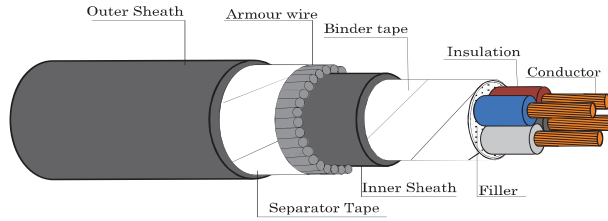
Deep of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area	A.C. Resistance		Inductance		Reactance		Impedance	
		R	L	XL	Z				
	(mm <sup>2</sup> )	(Ω/km)	(mH/km)	(Ω/km)	(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	1.4688				
	25	0.9272	0.2637	0.0829	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					

# FD-0.6/1KV-CV-SWA

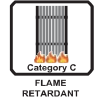


0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546



## CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 4 Cores: Blue, Brown, Black, Grey
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : 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 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	Conductor type	Insulation thickness nominal	Inner Sheath thickness approx.	Dia. Of inner sheath approx.	Diameter of steel wire armor 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 30°C maximum	Cable weight approx.	Standard Length
4	1.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	17.5	12.1	2,500	24	26	550	500/D
	2.5	Non-Compacted	0.7	1.2	12.0	1.25	1.8	19.0	7.41	2,100	32	34	650	500/D
	4	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20.0	4.61	1,700	42	44	750	500/D
	6	Non-Compacted	0.7	1.2	15.0	1.25	1.8	21	3.08	1,450	53	55	900	500/D
	10	Compacted	0.7	1.2	16.0	1.25	1.8	23	1.83	1,250	71	72	1100	500/D
	16	Compacted	0.7	1.2	18.5	1.6	1.8	26	1.150	1,000	94	93	1,600	500/D
	25	Compacted	0.9	1.2	23	2.0	1.8	31	0.727	1,050	125	120	2,300	500/D
	35	Compacted	0.9	1.2	25	2.0	1.9	34	0.524	900	154	145	2,900	500/D
	50	Compacted	1.0	1.2	29	2.0	2.1	38	0.387	850	186	171	3,600	500/D
	70	Compacted	1.1	1.2	33	2.0	2.2	42	0.268	800	233	208	4,700	500/D
	95	Compacted	1.1	1.2	38	2.0	2.3	48	0.193	650	286	249	6,000	500/D
	120	Compacted	1.2	1.3	42	2.5	2.5	53	0.153	650	332	283	7,500	500/D
	150	Compacted	1.4	1.4	46	2.5	2.7	58	0.124	700	376	315	9,000	500/D
	185	Compacted	1.6	1.5	52	2.5	2.8	64	0.0991	700	430	354	11,000	500/D
	240	Compacted	1.7	1.6	59	2.5	3.1	71	0.0754	650	505	406	14,000	300/D
	300	Compacted	1.8	1.7	65	3.15	3.3	79	0.0601	600	574	453	17,000	300/D
400	Compacted	2.0	1.9	73	3.15	3.6	87	0.0470	600	652	501	22,000	300/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	XL	Z				
	(mm <sup>2</sup> )	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)				
4	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	1.4688				
	25	0.9272	0.2637	0.0829	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					

