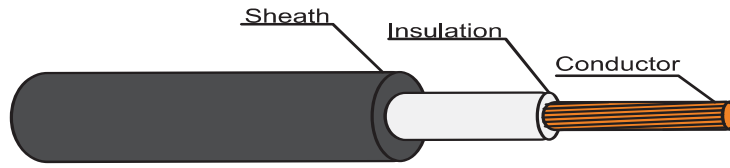


0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED FLAME RETARDANT POWER CABLE



IEC 60502-1

TIS 2143-2546



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** Single-core : Natural (Translucent)
- 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 core	Nominal cross sectional area (mm ²)	Conductor type	Insulation 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			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
								Space (A)	Touching (A)	Trefoil (A)			
1	1.5	Non-Compacted	0.7	1.4	6.3	12.1	2,500	31	24	23	33	50	500/D
	300	Compacted	1.8	1.8	29	0.0601	600	821	670	640	601	3100	500/D
	400	Compacted	2.0	1.9	32	0.0470	600	987	790	749	684	3900	500/D
	500	Compacted	2.2	2.0	36	0.0366	600	1140	908	861	777	5000	500/D
	630	Compacted	2.4	2.2	40	0.0283	550	1298	1064	1014	1229	6500	500/D
	800	Compacted	2.6	2.3	45	0.0221	550	1494	1220	1156	1380	8000	500/D
	1000	Compacted	2.8	2.4	51	0.0176	500	1712	1391	1307	1532	10500	500/D

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

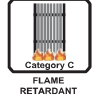
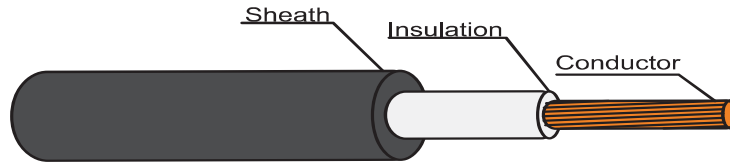
D : Packing in drum

Depth of laying (For cable laid direct in ground) 0.3 m

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED 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** Single-core : Natural (Translucent)
- 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)

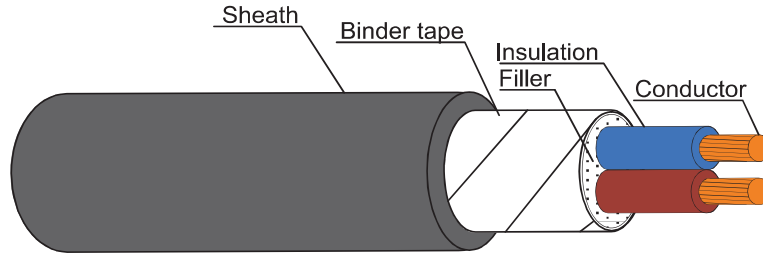
APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	A.C.Resistance			Inductance			Reactance			Impedance		
		R (Ω/km)			L (mH/km)			XL (Ω/km)			Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.6630	0.5244	0.4782	0.2083	0.1647	0.1502	15.4301	15.4296	15.4294
	300	0.0779	0.0787	0.0792	0.4413	0.3027	0.2565	0.1387	0.0951	0.0806	0.1591	0.1234	0.1130
	400	0.0616	0.0625	0.0632	0.4393	0.3007	0.2545	0.1380	0.0945	0.0800	0.1511	0.1133	0.1019
	500	0.0488	0.0499	0.0509	0.4365	0.2979	0.2517	0.1371	0.0936	0.0791	0.1455	0.1061	0.0940
	630	0.0387	0.0402	0.0414	0.4341	0.2954	0.2492	0.1364	0.0928	0.0783	0.1418	0.1011	0.0886
	800	0.0314	0.0332	0.0346	0.4309	0.2923	0.2461	0.1354	0.0918	0.0773	0.1390	0.0977	0.0847
	1000	0.0263	0.0284	0.0301	0.4265	0.2879	0.2416	0.1340	0.0904	0.0759	0.1366	0.0948	0.0817

B

0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED 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
- 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	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	1.8	11.0	12.1	2,500	27	33	130	500/D
	95	Compacted	1.1	2.0	33	0.193	650	329	350	2200	500/D
	120	Compacted	1.2	2.1	37	0.153	650	381	400	2800	500/D
	150	Compacted	1.4	2.2	41	0.124	700	436	450	3400	500/D
	185	Compacted	1.6	2.3	45	0.0991	700	503	505	4200	500/D
	240	Compacted	1.7	2.5	51	0.0754	650	593	585	5500	500/D
	300	Compacted	1.8	2.7	56	0.0601	600	676	665	7000	500/D
	400	Compacted	2.0	2.9	63	0.0470	600	777	750	8500	500/D

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

D : Packing in Drum

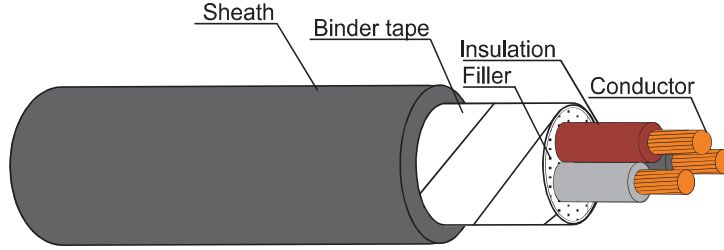
Deep of laying (For cable laid direct in ground) 0.8 m

Number of cores	Nominal cross sectional area	A.C.Resistance	Inductance	Reactance	Impedance
		R	L	XL	Z
	(mm ²)	(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	95	0.2468	0.2331	0.0732	0.2575
	120	0.1960	0.2315	0.0727	0.2091
	150	0.1593	0.2302	0.0723	0.1749
	185	0.1278	0.2338	0.0734	0.1474
	240	0.0981	0.2295	0.0721	0.1217
	300	0.0791	0.2260	0.0710	0.1063
400	0.0630	0.2259	0.0710	0.0949	

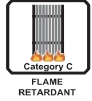
FD-0.6/1KV-CV



0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED 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

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)	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	1.8	11.5	12.1	2,500	22	28	150	500/D
	95	Compacted	1.1	2.0	36	0.193	650	272	295	3100	500/D
	120	Compacted	1.2	2.1	39	0.153	650	320	335	3900	500/D
	150	Compacted	1.4	2.3	44	0.124	700	366	380	4800	500/D
	185	Compacted	1.6	2.4	49	0.0991	700	422	425	6000	500/D
	240	Compacted	1.7	2.6	55	0.0754	650	498	495	8000	500/D
	300	Compacted	1.8	2.8	61	0.0601	600	567	560	9500	500/D
400	Compacted	2.0	3.1	68	0.0470	600	652	630	12500	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 (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3	1.5	15.4287	0.3427	0.1077	15.4291
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2315	0.0727	0.2094
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1282	0.2338	0.0734	0.1478
	240	0.0987	0.2295	0.0721	0.1222
	300	0.0798	0.2260	0.0710	0.1068
400	0.0639	0.2259	0.0710	0.0955	

B

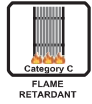
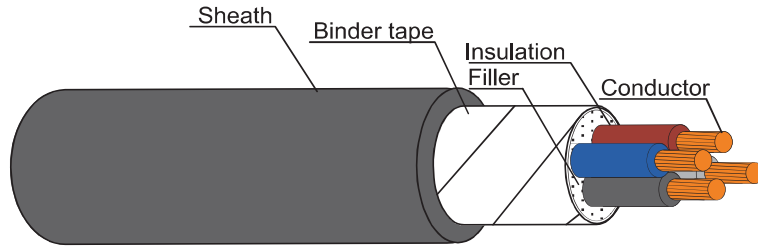
FD-0.6/1KV-CV



0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED 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

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	Insulation 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 (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)
4	1.5	Non-Compacted	0.7	1.8	12.0	12.1	2,500	22	28	180	500/D
	95	Compacted	1.1	2.0	39	0.193	650	272	295	4000	500/D
	120	Compacted	1.2	2.1	44	0.153	650	320	335	5000	500/D
	150	Compacted	1.4	2.3	49	0.124	700	366	380	6500	500/D
	185	Compacted	1.6	2.4	54	0.0991	700	422	425	8000	500/D
	240	Compacted	1.7	2.6	61	0.0754	650	498	495	10000	500/D
	300	Compacted	1.8	2.8	68	0.0601	600	567	560	12500	500/D
	400	Compacted	2.0	3.1	76	0.0470	600	652	630	16000	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 (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
4	1.5	15.4287	0.3427	0.1077	15.4291
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2315	0.0727	0.2094
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1282	0.2338	0.0734	0.1478
	240	0.0987	0.2295	0.0721	0.1222
	300	0.0798	0.2260	0.0710	0.1068
	400	0.0639	0.2259	0.0710	0.0955

B