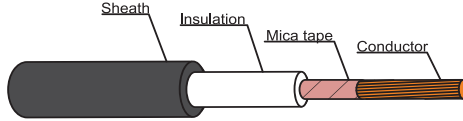


FS/FDLH-0.6/1KV-CE



0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED FIRE RESISTANCE FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN POWER CABLE

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-Compacted and compacted round annealed copper
Single-core : Sizes 1.5 mm² up to 1000 mm²
- Fire barrier tape** : Mica tape
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification**
Single-core : Natural (Translucent)
- Sheath** : Black Low smoke and zero halogen flame retardant polyolefin (ST8)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
Circuit voltage not exceeding 1,200 Volts
- Rated voltage** : 600 Volts between Line to Earth
Rated voltage : 1,000 Volts between Line to Line
- Testing voltage** : 3,500 Volts
- Reference Standard**
: IEC 60502-1, IEC 60228, BS 6387 (Cat.CWZ)
IEC 60332-1, IEC 60332-3-24 (Cat.C), IEC 60754-2,
IEC 61034-2

APPLICATION

For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

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 (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)
								Spaced	Touching	Trefoil			
1	1.5	Non-Compacted	0.7	3.4	12.0	12.1	2,500	36	30	29	44	160	300/D
	2.5	Non-Compacted	0.7	3.1	12.0	7.41	2,100	47	39	38	58	160	300/D
	4	Non-Compacted	0.7	3.0	12.5	4.61	1,700	62	50	49	76	180	300/D
	6	Non-Compacted	0.7	2.7	12.0	3.08	1,450	77	62	61	96	190	300/D
	10	Compacted	0.7	2.4	12.0	1.83	1,250	102	82	80	127	210	300/D
	16	Compacted	0.7	2.0	12.0	1.15	1,000	134	106	103	167	260	300/D
	25	Compacted	0.9	1.4	12.0	0.727	1,050	173	135	131	218	320	300/D
	35	Compacted	0.9	1.4	13.0	0.524	900	212	166	161	261	420	300/D
	50	Compacted	1.0	1.4	14.5	0.387	850	256	201	195	309	550	300/D
	70	Compacted	1.1	1.5	16.5	0.268	800	324	257	249	378	750	300/D
	95	Compacted	1.1	1.5	18.5	0.193	650	400	318	308	454	1000	300/D
	120	Compacted	1.2	1.6	20	0.153	650	464	371	359	515	1300	300/D
	150	Compacted	1.4	1.6	22	0.124	700	530	426	412	576	1600	300/D
	185	Compacted	1.6	1.7	25	0.0991	700	613	495	479	649	1900	300/D
	240	Compacted	1.7	1.8	28	0.0754	650	731	592	572	753	2500	300/D
	300	Compacted	1.8	1.9	30	0.0601	600	843	686	661	848	3100	300/D
	400	Compacted	2.0	2.0	33	0.0470	600	985	803	773	962	4000	300/D
	500	Compacted	2.2	2.1	37	0.0366	600	1150	939	900	1089	5000	300/D
	630	Compacted	2.4	2.3	42	0.2830	550	1340	1094	1043	1226	6500	300/D
800	Compacted	2.6	2.4	6	0.0221	550	1542	1255	1188	1364	8000	300/D	
1000	Compacted	2.8	2.6	52	0.0176	500	1764	1430	1344	1499	10500	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

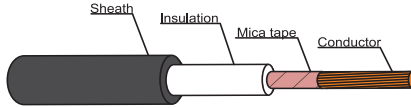
D : Packing in drum

FS/FDLH-0.6/1KV-CE



0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED FIRE RESISTANCE FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN POWER CABLE

IEC 60502-1



CABLE STRUCTURE TECHNICAL DATA

Conductor : Non-Compacted and compacted round annealed copper
Single-core : Sizes 1.5 mm² up to 1000 mm²

Fire barrier tape : Mica tape

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
Single-core : Natural (Translucent)

Sheath : Black Low smoke and zero halogen flame retardant polyolefin (ST8)

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
Rated voltage : 1,000 Volts between Line to Line

Testing voltage : 3,500 Volts

Reference Standard
: IEC 60502-1, IEC 60228, BS 6387 (Cat.CWZ)
: IEC 60332-1, IEC 60332-3-24 (Cat.C), IEC 60754-2, IEC 61034-2

APPLICATION

For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

Number of core	Nominal cross sectional area (mm ²)	A.C.Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.7969	0.6582	0.6120	0.2503	0.2068	0.1923	15.4307	15.4301	15.4299
	2.5	9.4485	9.4485	9.4485	0.7483	0.6097	0.5635	0.2351	0.1915	0.1770	9.4514	9.4504	9.4502
	4	5.8782	5.8782	5.8782	0.7056	0.5670	0.5208	0.2217	0.1781	0.1636	5.8824	5.8809	5.8805
	6	3.9273	3.9273	3.9273	0.6620	0.5234	0.4772	0.2080	0.1644	0.1499	3.9328	3.9308	3.9302
	10	2.3335	2.3335	2.3335	0.6263	0.4877	0.4415	0.1968	0.1532	0.1387	2.3418	2.3385	2.3376
	16	1.4664	1.4664	1.4664	0.5817	0.4431	0.3969	0.1827	0.1392	0.1247	1.4778	1.4730	1.4717
	25	0.9271	0.9271	0.9271	0.5313	0.3927	0.3465	0.1669	0.1234	0.1088	0.9420	0.9353	0.9335
	35	0.6883	0.6883	0.6884	0.5160	0.3773	0.3311	0.1621	0.1185	0.1040	0.6877	0.6788	0.6764
	50	0.4937	0.4937	0.4938	0.4943	0.3556	0.3094	0.1553	0.1117	0.0972	0.5175	0.5062	0.5033
	70	0.3420	0.3421	0.3422	0.4879	0.3492	0.3030	0.1533	0.1097	0.0952	0.3748	0.3593	0.3552
	95	0.2465	0.2467	0.2468	0.4744	0.3358	0.2895	0.1490	0.1055	0.0910	0.2880	0.2683	0.2630
	120	0.1956	0.1958	0.1960	0.4668	0.3282	0.2820	0.1467	0.1031	0.0886	0.2445	0.2213	0.2151
	150	0.1587	0.1590	0.1593	0.4633	0.3246	0.2784	0.1455	0.1020	0.0875	0.2154	0.1889	0.1817
	185	0.1271	0.1275	0.1278	0.4623	0.3236	0.2774	0.1452	0.1017	0.0871	0.1930	0.1631	0.1547
	240	0.0972	0.0977	0.0981	0.4545	0.3159	0.2697	0.1428	0.0992	0.0847	0.1727	0.1392	0.1296
	300	0.0779	0.0786	0.0791	0.4501	0.3115	0.2653	0.1414	0.0979	0.0833	0.1615	0.1255	0.1149
400	0.0616	0.0624	0.0631	0.4478	0.3092	0.2630	0.1407	0.0971	0.0826	0.1536	0.1155	0.1039	
500	0.0487	0.0498	0.0507	0.4436	0.3049	0.2587	0.1394	0.0958	0.0813	0.1476	0.1080	0.0958	
630	0.0387	0.0401	0.0412	0.4404	0.3017	0.2555	0.1383	0.0948	0.0803	0.1437	0.1029	0.0902	
800	0.0314	0.0331	0.0344	0.4366	0.2980	0.2518	0.1372	0.0936	0.0791	0.1407	0.0993	0.0863	
1000	0.0263	0.0282	0.0298	0.4323	0.2937	0.2474	0.1358	0.0923	0.0777	0.1383	0.0965	0.0833	

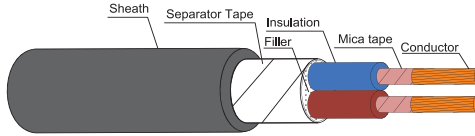


FS/FDLH-0.6/1KV-CE



0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED FIRE RESISTANCE FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN 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
- Fire barrier tape** : Mica tape
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification**
2 cores : Blue, Brown
- Sheath** : Black Low smoke and zero halogen flame retardant polyolefin (ST8)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
- Rated voltage** : 600 Volts between Line to Earth
Rated voltage : 1,000 Volts between Line to Line
- Testing voltage** : 3,500 Volts
- Reference Standard**
: IEC 60502-1, IEC 60228, BS 6387 (Cat.CWZ)
IEC 60332-1, IEC 60332-3-24 (Cat.C), IEC 60754-2,
IEC 61034-2

APPLICATION

For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

B

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)
2	1.5	Non-Compacted	0.7	1.8	13.0	12.1	2,500	28	35	160	300/D
	2.5	Non-Compacted	0.7	1.8	14.0	7.41	2,100	38	46	200	300/D
	4	Non-Compacted	0.7	1.8	15.0	4.61	1,700	49	59	240	300/D
	6	Non-Compacted	0.7	1.8	16.5	3.08	1,450	63	74	300	300/D
	10	Compacted	0.7	1.8	17.5	1.83	1,250	84	97	390	300/D
	16	Compacted	0.7	1.8	20	1.15	1,000	111	126	550	300/D
	25	Compacted	0.9	1.8	22	0.727	1,050	147	162	750	300/D
	35	Compacted	0.9	1.8	24	0.524	900	181	194	950	300/D
	50	Compacted	1.0	1.8	27	0.387	850	219	229	1200	300/D
	70	Compacted	1.1	1.9	30	0.268	800	275	280	1700	300/D
	95	Compacted	1.1	2.0	34	0.193	650	340	336	2300	300/D
	120	Compacted	1.2	2.2	38	0.153	650	394	381	2900	300/D
	150	Compacted	1.4	2.3	42	0.124	700	449	426	3500	300/D
	185	Compacted	1.6	2.4	47	0.0991	700	518	480	4300	300/D
	240	Compacted	1.7	2.6	53	0.0754	650	614	555	5500	300/D
	300	Compacted	1.8	2.8	58	0.0601	600	705	623	7000	300/D
400	Compacted	2.0	3.0	65	0.0470	600	814	702	8500	300/D	

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
		(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
2	1.5	15.4287	0.4018	0.1262	15.4292
	2.5	9.4485	0.3789	0.1184	9.4492
	4	5.8782	0.3492	0.1097	5.8793
	6	3.9273	0.3303	0.1038	3.9287
	10	2.3335	0.3124	0.0982	2.3356
	16	1.4665	0.2936	0.0922	1.4694
	25	0.9272	0.2782	0.0874	0.9313
	35	0.6684	0.2695	0.0847	0.6737
	50	0.4938	0.2546	0.0800	0.5002
	70	0.3422	0.2490	0.0782	0.3511
	95	0.2468	0.2414	0.0758	0.2582
	120	0.1960	0.2364	0.0743	0.2096
	150	0.1592	0.2369	0.0744	0.1758
	185	0.1278	0.2385	0.0749	0.1481
	240	0.0980	0.2334	0.0733	0.1224
	300	0.0790	0.2308	0.0725	0.1072
400	0.0630	0.2302	0.0723	0.0959	

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

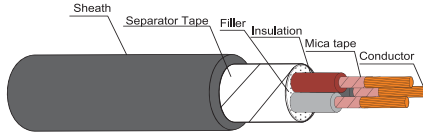
D : Packing in drum

FS/FDLH-0.6/1KV-CE



0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED FIRE RESISTANCE FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN 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

Fire barrier tape : Mica tape

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
3-cores : Brown, Black, Grey

Sheath : Black Low smoke and zero halogen flame retardant polyolefin (ST8)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth

Rated voltage : 1,000 Volts between Line to Line

Testing voltage : 3,500 Volts

Reference Strandard
: IEC 60502-1, IEC 60228, BS 6387 (Cat.CWZ)
: IEC 60332-1, IEC 60332-3-24 (Cat.C), IEC 60754-2, IEC 61034-2

APPLICATION

For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

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/m)	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	14.0	12.1	2,500	24	30	190	300/D
	2.5	Non-Compacted	0.7	1.8	15.0	7.41	2,100	32	39	240	300/D
	4	Non-Compacted	0.7	1.8	16.0	4.61	1,700	43	50	300	300/D
	6	Non-Compacted	0.7	1.8	17.5	3.08	1,450	54	63	380	300/D
	10	Compacted	0.7	1.8	18.5	1.83	1,250	72	82	500	300/D
	16	Compacted	0.7	1.8	20	1.15	1,000	96	106	700	300/D
	25	Compacted	0.9	1.8	23	0.727	1,050	127	137	1000	300/D
	35	Compacted	0.9	1.8	26	0.524	900	155	164	1300	300/D
	50	Compacted	1.0	1.9	29	0.387	850	319	193	1700	300/D
	70	Compacted	1.1	2.0	33	0.268	800	238	236	2400	300/D
	95	Compacted	1.1	2.1	37	0.193	650	293	283	3200	300/D
	120	Compacted	1.2	2.3	41	0.153	650	341	320	4000	300/D
	150	Compacted	1.4	2.4	45	0.124	700	389	359	4900	300/D
	185	Compacted	1.6	2.6	51	0.0991	700	449	404	6000	300/D
	240	Compacted	1.7	2.8	57	0.0754	650	534	467	8000	300/D
	300	Compacted	1.8	2.9	62	0.0601	600	614	525	9500	300/D
400	Compacted	2.0	3.2	70	0.0470	600	710	592	12500	300/D	

Number of cores	Nominal cross sectional area (mm ²)	A.C Resistance R	Inductance L	Reactance XL	Impedance Z
		(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
3	1.5	15.4287	0.4018	0.1262	15.4292
	2.5	9.4485	0.3769	0.1184	9.4492
	4	5.8782	0.3492	0.1097	5.8793
	6	3.9273	0.3303	0.1038	3.9287
	10	2.3335	0.3124	0.0982	2.3356
	16	1.4665	0.2936	0.0922	1.4694
	25	0.9272	0.2782	0.0874	0.9313
	35	0.6685	0.2695	0.0847	0.6738
	50	0.4939	0.2546	0.0800	0.5003
	70	0.3424	0.2490	0.0782	0.3512
	95	0.2470	0.2414	0.0758	0.2584
	120	0.1963	0.2364	0.0743	0.2099
	150	0.1596	0.2369	0.0744	0.1761
	185	0.1282	0.2385	0.0749	0.1485
	240	0.0986	0.2334	0.0733	0.1228
	300	0.0797	0.2308	0.0725	0.1077
400	0.0638	0.2302	0.0723	0.0964	

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

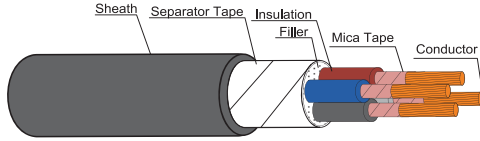


FS/FDLH-0.6/1KV-CE



0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED FIRE RESISTANCE FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN 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

Fire barrier tape : Mica tape

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
4-cores : Blue, Brown, Black, Grey

Sheath : Black Low smoke and zero halogen flame retardant polyolefin (ST8)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Rated voltage : 600 Volts between Line to Earth
Rated voltage : 1,000 Volts between Line to Line

Testing voltage : 3,500 Volts

Reference Standard
: IEC 60502-1, IEC 60228, BS 6387 (Cat.CWZ)
: IEC 60332-1, IEC 60332-3-24 (Cat.C), IEC 60754-2,
: IEC 61034-2

APPLICATION

For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

B

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)
4	1.5	Non-Compacted	0.7	1.8	15.0	12.1	2,500	24	30	230	300/D
	2.5	Non-Compacted	0.7	1.8	16.0	7.41	2,100	32	39	290	300/D
	4	Non-Compacted	0.7	1.8	17.5	4.61	1,700	43	50	370	300/D
	6	Non-Compacted	0.7	1.8	19.0	3.08	1,450	54	63	470	300/D
	10	Compacted	0.7	1.8	20	1.83	1,250	72	82	650	300/D
	16	Compacted	0.7	1.8	22	1.15	1,000	96	106	900	300/D
	25	Compacted	0.9	1.8	25	0.727	1,050	127	137	1300	300/D
	35	Compacted	0.9	1.8	28	0.524	900	155	164	1700	300/D
	50	Compacted	1.0	1.9	32	0.387	850	319	193	2200	300/D
	70	Compacted	1.1	2.1	36	0.268	800	238	236	3100	300/D
	95	Compacted	1.1	2.3	41	0.193	650	293	283	4200	300/D
	120	Compacted	1.2	2.4	46	0.153	650	341	320	5000	300/D
	150	Compacted	1.4	2.6	50	0.124	700	389	359	6500	300/D
	185	Compacted	1.6	2.7	56	0.0991	700	449	404	8000	300/D
	240	Compacted	1.7	3.0	53	0.0754	650	534	467	10500	300/D
	300	Compacted	1.8	3.2	70	0.0601	600	614	525	13000	300/D
400	Compacted	2.0	3.4	77	0.0470	600	710	592	16500	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	1.5	15.4287	0.4018	0.1262	15.4292
	2.5	9.4485	0.3769	0.1184	9.4492
	4	5.8782	0.3492	0.1097	5.8793
	6	3.9273	0.3303	0.1038	3.9287
	10	2.3335	0.3124	0.0982	2.3356
	16	1.4665	0.2936	0.0922	1.4694
	25	0.9272	0.2782	0.0874	0.9313
	35	0.6685	0.2695	0.0847	0.6738
	50	0.4939	0.2546	0.0800	0.5003
	70	0.3424	0.2490	0.0782	0.3512
	95	0.2470	0.2414	0.0758	0.2584
	120	0.1963	0.2364	0.0743	0.2099
	150	0.1596	0.2369	0.0744	0.1761
	185	0.1282	0.2385	0.0749	0.1485
	240	0.0986	0.2334	0.0733	0.1228
	300	0.0797	0.2308	0.0725	0.1077
400	0.0638	0.2302	0.0723	0.0964	

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