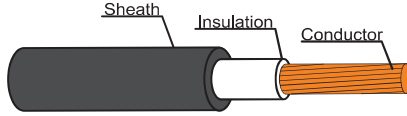


0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN POWER CABLE

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-Compacted and compacted round annealed copper
Single-core : Sizes 1.5 mm² up to 1000 mm²
- 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, IEC 60332-1,
IEC 60332-3-24 (Cat.C), IEC 60754-2, IEC 61034-2

APPLICATION

For installed into tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and non toxic emission under fire.

B

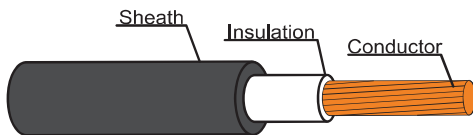
Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
								Spaced	Touching	Trefoil			
1	1.5	Non-Compacted	0.7	3.9	12.0	12.1	2,500	31	24	23	33	160	500/D
	2.5	Non-Compacted	0.7	3.7	12.0	7.41	2,100	42	32	31	43	160	500/D
	4	Non-Compacted	0.7	3.4	12.0	4.61	1,700	54	42	41	55	170	500/D
	6	Non-Compacted	0.7	3.1	12.0	3.08	1,450	68	53	52	70	190	500/D
	10	Compacted	0.7	3.0	12.5	1.83	1,250	90	73	71	92	220	500/D
	16	Compacted	0.7	2.5	12.0	1.15	1,000	124	95	93	119	260	500/D
	25	Compacted	0.9	1.7	12.0	0.727	1,050	166	128	123	152	330	500/D
	35	Compacted	0.9	1.4	12.5	0.524	900	206	160	154	184	410	500/D
	50	Compacted	1.0	1.4	14.0	0.387	850	250	197	188	217	55	500/D
	70	Compacted	1.1	1.4	15.5	0.288	800	321	254	244	266	750	500/D
	95	Compacted	1.1	1.5	18.0	0.193	650	391	311	298	318	1000	500/D
	120	Compacted	1.2	1.5	19.5	0.153	650	455	364	349	362	1300	500/D
	150	Compacted	1.4	1.6	22	0.124	700	525	422	404	406	1500	500/D
	185	Compacted	1.6	1.6	24	0.0991	700	602	485	464	459	1900	500/D
	240	Compacted	1.7	1.7	27	0.0754	650	711	577	552	533	2500	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	33	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	41	0.2830	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
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

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

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, IEC 60332-1,
 IEC 60332-3-24 (Cat.C), IEC 60754-2, IEC 61034-2

APPLICATION

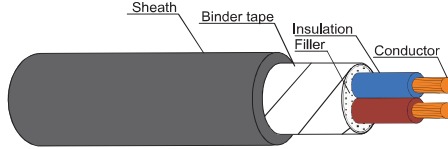
For installed into tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and non toxic emission under fire.

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)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.7952	0.6566	0.6104	0.2498	0.2063	0.1918	15.4307	15.4301	15.4299
	2.5	9.4485	9.4485	9.4485	0.7500	0.6113	0.5651	0.2356	0.1921	0.1775	9.4514	9.4505	9.4502
	4	5.8782	5.8782	5.8782	0.7007	0.5621	0.5159	0.2201	0.1766	0.1621	5.8823	5.8809	5.8805
	6	3.9273	3.9273	3.9273	0.6604	0.5218	0.4756	0.2075	0.1639	0.1494	3.9328	3.9308	3.9302
	10	2.3335	2.3335	2.3335	0.6312	0.4925	0.4463	0.1983	0.1547	0.1402	2.3419	2.3386	2.3377
	16	1.4664	1.4664	1.4664	0.5801	0.4415	0.3952	0.1822	0.1387	0.1242	1.4777	1.4730	1.4717
	25	0.9271	0.9271	0.9271	0.5346	0.3960	0.3498	0.1680	0.1244	0.1099	0.9422	0.9354	0.9336
	35	0.6683	0.6683	0.6684	0.5067	0.3680	0.3218	0.1592	0.1156	0.1011	0.6870	0.6783	0.6760
	50	0.4937	0.4937	0.4938	0.4859	0.3472	0.3010	0.1526	0.1091	0.0946	0.5167	0.5056	0.5028
	70	0.3420	0.3421	0.3422	0.4744	0.3358	0.2896	0.1490	0.1055	0.0910	0.3731	0.3580	0.3541
	95	0.2465	0.2467	0.2468	0.4679	0.3292	0.2830	0.1470	0.1034	0.0889	0.2870	0.2675	0.2623
	120	0.1956	0.1958	0.1960	0.4589	0.3203	0.2740	0.1442	0.1006	0.0861	0.2430	0.2202	0.2141
	150	0.1587	0.1590	0.1593	0.4578	0.3192	0.2730	0.1438	0.1003	0.0858	0.2142	0.1880	0.1809
	185	0.1271	0.1275	0.1278	0.4573	0.3187	0.2724	0.1437	0.1001	0.0856	0.1918	0.1621	0.1538
	240	0.0972	0.0977	0.0981	0.4487	0.3100	0.2638	0.1410	0.0974	0.0829	0.1712	0.1380	0.1285
	300	0.0779	0.0786	0.0792	0.4448	0.3061	0.2599	0.1397	0.0962	0.0817	0.1600	0.1242	0.1137
	400	0.0616	0.0625	0.0632	0.4424	0.3038	0.2576	0.1390	0.0954	0.0809	0.1520	0.1141	0.1027
500	0.0487	0.0499	0.0508	0.4393	0.3006	0.2544	0.1380	0.0944	0.0799	0.1464	0.1068	0.0947	
630	0.0387	0.0401	0.0413	0.4365	0.2979	0.2517	0.1371	0.0936	0.0791	0.1425	0.1018	0.0892	
800	0.0314	0.0332	0.0346	0.4332	0.2945	0.2483	0.1361	0.0925	0.0780	0.1397	0.0983	0.0863	
1000	0.0263	0.0283	0.0300	0.4284	0.2898	0.2436	0.1346	0.0910	0.0765	0.1372	0.0954	0.0822	



0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED 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
- 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, IEC 60332-1,
IEC 60332-3-24 (Cat.C), IEC 60754-2, IEC 61034-2

APPLICATION

For installed into tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and non toxic emission under 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/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	2.4	12.0	12.1	2,500	26	33	160	500/D
	2.5	Non-Compacted	0.7	1.9	12.0	7.41	2,100	35	44	160	500/D
	4	Non-Compacted	0.7	1.8	13.0	4.61	1,700	46	57	200	500/D
	6	Non-Compacted	0.7	1.8	14.0	3.08	1,450	59	71	250	500/D
	10	Compacted	0.7	1.8	15.0	1.83	1,250	79	93	340	500/D
	16	Compacted	0.7	1.8	17.5	1.15	1,000	105	121	480	500/D
	25	Compacted	0.9	1.8	21	0.727	1,050	116	152	700	500/D
	35	Compacted	0.9	1.8	23	0.524	900	144	184	900	500/D
	50	Compacted	1.0	1.8	26	0.387	850	175	217	1200	500/D
	70	Compacted	1.1	1.9	30	0.268	800	224	266	1700	500/D
	95	Compacted	1.1	2.0	33	0.193	650	271	318	2200	500/D
	120	Compacted	1.2	2.1	37	0.153	650	315	362	2800	500/D
	150	Compacted	1.4	2.2	41	0.124	700	363	406	3400	500/D
	185	Compacted	1.6	2.4	46	0.0991	700	415	459	4200	500/D
	240	Compacted	1.7	2.6	51	0.0754	650	490	533	5500	500/D
	300	Compacted	1.8	2.8	57	0.0601	600	565	601	7000	500/D
400	Compacted	2.0	3.0	63	0.0470	600	791	683	8500	500/D	

Number of cores	Nominal cross sectional area (mm ²)	A.C.Resistance R (Ω/km)	Inductance L (nH/km)	Reactance XL (Ω/km)	Impedance 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	0.6884	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	0.2338	0.0734	0.1474
	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	

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

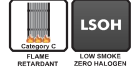
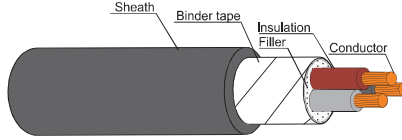
D : Packing in drum

FDLH-0.6/1KV-CE



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

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

APPLICATION

For installed into tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and non toxic emission under 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/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	2.1	12.0	12.1	2,500	26	33	160	500/D
	2.5	Non-Compacted	0.7	1.8	12.5	7.41	2,100	35	44	190	500/D
	4	Non-Compacted	0.7	1.8	13.5	4.61	1,700	46	57	240	500/D
	6	Non-Compacted	0.7	1.8	15.0	3.08	1,450	59	71	320	500/D
	10	Compacted	0.7	1.8	16.0	1.83	1,250	79	93	440	500/D
	16	Compacted	0.7	1.8	18.5	1.15	1,000	105	121	650	500/D
	25	Compacted	0.9	1.8	22	0.727	1,050	116	152	950	500/D
	35	Compacted	0.9	1.8	24	0.524	900	144	184	1300	500/D
	50	Compacted	1.0	1.8	27	0.387	850	175	217	1600	500/D
	70	Compacted	1.1	1.9	31	0.268	800	224	266	2300	500/D
	95	Compacted	1.1	2.1	36	0.193	650	271	318	3100	500/D
	120	Compacted	1.2	2.2	40	0.153	650	315	362	3900	500/D
	150	Compacted	1.4	2.3	44	0.124	700	363	406	4800	500/D
	185	Compacted	1.6	2.5	49	0.0991	700	415	459	6000	500/D
	240	Compacted	1.7	2.7	55	0.0754	650	490	533	8000	500/D
	300	Compacted	1.8	2.9	61	0.0601	600	565	601	9500	300/D
400	Compacted	2.0	3.1	68	0.0470	600	791	683	12500	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)
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	0.1282	0.2338	0.0734	0.1478
	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	

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

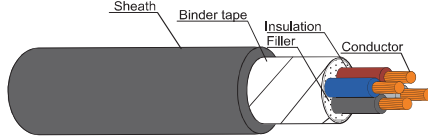


FDLH-0.6/1KV-CE



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

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, IEC 60332-1,
IEC 60332-3-24 (Cat.C), IEC 60754-2, IEC 61034-2

APPLICATION

For installed into tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and non toxic emission under 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 (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	26	33	180	500/D
	2.5	Non-Compacted	0.7	1.8	13.5	7.41	2,100	35	44	230	500/D
	4	Non-Compacted	0.7	1.8	14.5	4.61	1,700	46	57	300	500/D
	6	Non-Compacted	0.7	1.8	16.0	3.08	1,450	59	71	400	500/D
	10	Compacted	0.7	1.8	17.5	1.83	1,250	79	93	550	500/D
	16	Compacted	0.7	1.8	20	1.15	1,000	105	121	800	500/D
	25	Compacted	0.9	1.8	24	0.727	1,050	116	152	1200	500/D
	35	Compacted	0.9	1.8	27	0.524	900	144	184	1600	500/D
	50	Compacted	1.0	1.9	30	0.387	850	175	217	2100	500/D
	70	Compacted	1.1	2.1	35	0.268	800	224	266	3000	500/D
	95	Compacted	1.1	2.2	40	0.193	650	271	318	4000	500/D
	120	Compacted	1.2	2.4	44	0.153	650	315	362	5000	500/D
	150	Compacted	1.4	2.5	49	0.124	700	363	406	6500	500/D
	185	Compacted	1.6	2.7	55	0.0991	700	415	459	8000	500/D
	240	Compacted	1.7	2.9	61	0.0754	650	490	533	10000	500/D
	300	Compacted	1.8	3.1	68	0.0601	600	565	601	12500	300/D
400	Compacted	2.0	3.4	76	0.0470	600	791	683	16000	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	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	0.1282	0.2338	0.0734	0.1478
	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	

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