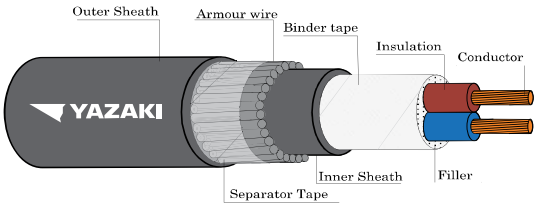
FDLH-0.6/1KV-CE-SWA

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



FLAME RETARDANT

LOW SMOKE ZERO HALOGEN

CABLE STRUCTURE

Conductor : Non-compacted and compacted round annealed copper

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
2 Cores : Blue, Brown

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

Armor : Galvanized steel wires

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

Referance Strandard

Construction : IEC 60502-1, BS 6724
Flame retardant : IEC 60332-1-2
IEC 60332-3-22 Category A
IEC 60332-3-23 Category B
IEC 60332-3-24 Category C
Acid gas emission : IEC 60754-1, IEC 60754-2
Smoke emission : IEC 61034-2
Non-toxic gases : Defence standard 02-713

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 core	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer 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	1.2	9.5	0.90	1.8	15.5	12.1	2,500	30	35	360	500/D
	2.5	Non-Compacted	0.7	1.2	10.5	0.90	1.8	16.5	7.41	2,100	39	46	410	500/D
	4	Non-Compacted	0.7	1.2	11.5	1.25	1.8	18.5	4.61	1,700	51	59	600	500/D
	6	Non-Compacted	0.7	1.2	13.0	1.25	1.8	19.5	3.08	1,450	66	74	700	500/D
	10	Compacted	0.7	1.2	14.0	1.25	1.8	20.5	1.83	1,250	88	98	800	500/D
	16	Compacted	0.7	1.2	16.0	1.60	1.8	23.5	1.15	1,000	116	126	1100	500/D
	25	Compacted	0.9	1.2	19.5	1.60	1.8	26.5	0.727	1,050	154	162	1500	500/D
	35	Compacted	0.9	1.2	21.5	1.60	1.8	29.0	0.524	900	188	194	1800	500/D
	50	Compacted	1.0	1.2	24.5	2.00	2.0	33.0	0.387	850	228	230	2400	500/D
	70	Compacted	1.1	1.2	28.0	2.00	2.1	37.0	0.268	800	285	281	3000	500/D
	95	Compacted	1.1	1.2	31.5	2.00	2.2	41.0	0.193	650	350	336	3800	500/D
	120	Compacted	1.2	1.2	35.0	2.00	2.4	45.0	0.153	650	404	381	4500	500/D
	150	Compacted	1.4	1.3	39.0	2.50	2.5	50.0	0.124	700	458	426	6000	500/D
	185	Compacted	1.6	1.4	43.5	2.50	2.7	55.0	0.0991	700	528	479	7000	500/D
	240	Compacted	1.7	1.5	49.5	2.50	2.9	61.0	0.0754	650	622	552	8500	500/D
	300	Compacted	1.8	1.6	54.5	2.50	3.1	67.0	0.0601	600	710	618	10000	300/D
	400	Compacted	2.0	1.7	61.0	2.50	3.3	73.5	0.0470	600	815	693	12500	300/D

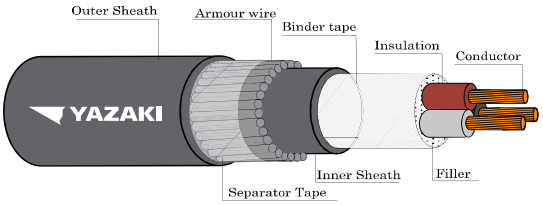
Number of core	Nominal cross sectional area (mm^2)	A.C.Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9273	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	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

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-SWA

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



FLAME RETARDANT

LOW SMOKE ZERO HALOGEN

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 Low smoke and zero halogen flame retardant polyolefin(ST8)

Armor : Galvanized steel wires

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

Referance Strandard
Construction : IEC 60502-1, BS 6724
Flame retardant : IEC 60332-1-2
IEC 60332-3-22 Category A
IEC 60332-3-23 Category B
IEC 60332-3-24 Category C
Acid gas emission : IEC 60754-1, IEC 60754-2
Smoke emission : IEC 61034-2
Non-oxic gases : Defence standard 02-713

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 core	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer 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	0.90	1.8	16.0	12.1	2,500	26	30	400	500/D
	2.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	18.0	7.41	2,100	34	39	550	500/D
	4	Non-Compacted	0.7	1.2	12.5	1.25	1.8	19.0	4.61	1,700	45	51	650	500/D
	6	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20.5	3.08	1,450	57	63	750	500/D
	10	Compacted	0.7	1.2	14.5	1.25	1.8	21.5	1.83	1,250	76	83	950	500/D
	16	Compacted	0.7	1.2	17.0	1.60	1.8	24.5	1.15	1,000	100	107	1300	500/D
	25	Compacted	0.9	1.2	20.5	1.60	1.8	28.0	0.727	1,050	132	137	1800	500/D
	35	Compacted	0.9	1.2	23.0	2.00	1.9	31.5	0.524	900	162	164	2400	500/D
	50	Compacted	1.0	1.2	26.0	2.00	2.0	35.0	0.387	850	196	194	2900	500/D
	70	Compacted	1.1	1.2	30.0	2.00	2.2	39.5	0.268	800	246	236	3800	500/D
	95	Compacted	1.1	1.2	34.0	2.00	2.3	43.5	0.193	650	301	282	4800	500/D
	120	Compacted	1.2	1.3	38.0	2.50	2.5	49.0	0.153	650	348	320	6000	500/D
	150	Compacted	1.4	1.4	42.0	2.50	2.6	53.0	0.124	700	397	356	7500	500/D
	185	Compacted	1.6	1.5	47.5	2.50	2.8	59.0	0.0991	700	455	400	9000	500/D
	240	Compacted	1.7	1.6	53.0	2.50	3.0	65.5	0.0754	650	535	459	11000	300/D
	300	Compacted	1.8	1.7	58.5	2.50	3.2	71.0	0.0601	600	608	511	13500	300/D
	400	Compacted	2.0	1.8	65.5	3.15	3.5	80.0	0.0470	600	699	574	17500	200/D

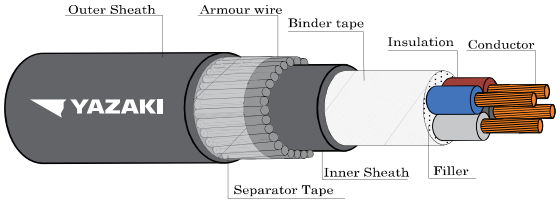
Number of cores	Nominal cross sectional area (mm^2)	A.C.Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	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

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-SWA

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



FLAME RETARDANT (Category A, Category B, Category C) — LOW SMOKE ZERO HALOGEN (LSOH)

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 Low smoke and zero halogen flame retardant polyolefin(ST8)

Armor : Galvanized steel wires

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

Referance Strandard

Construction : IEC 60502-1, BS 6724
Flame retardant : IEC 60332-1-2
IEC 60332-3-22 Category A
IEC 60332-3-23 Category B
IEC 60332-3-24 Category C
Acid gas emission : IEC 60754-1, IEC 60754-2
Smoke emission : IEC 61034-2
Non-toxic gases : Defence standard 02-713

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 core	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer 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	0.90	1.8	16.5	12.1	2,500	26	30	440	500/D
	2.5	Non-Compacted	0.7	1.2	12.0	1.25	1.8	19.0	7.41	2,100	34	39	650	500/D
	4	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20.0	4.61	1,700	45	51	750	500/D
	6	Non-Compacted	0.7	1.2	15.0	1.25	1.8	21.5	3.08	1,450	57	63	900	500/D
	10	Compacted	0.7	1.2	16.0	1.60	1.8	23.5	1.83	1,250	76	83	1200	500/D
	16	Compacted	0.7	1.2	18.5	1.60	1.8	26.0	1.15	1,000	100	107	1600	500/D
	25	Compacted	0.9	1.2	22.5	2.00	1.9	31.0	0.727	1,050	132	137	2300	500/D
	35	Compacted	0.9	1.2	15.5	2.00	2.0	34.0	0.524	900	162	164	2900	500/D
	50	Compacted	1.0	1.2	29.0	2.00	2.1	38.0	0.387	850	196	194	3600	500/D
	70	Compacted	1.1	1.2	33.0	2.00	2.3	42.5	0.268	800	246	236	4600	500/D
	95	Compacted	1.1	1.3	37.5	2.50	2.5	48.5	0.193	650	301	282	6500	500/D
	120	Compacted	1.2	1.4	42.0	2.50	2.6	53.5	0.153	650	348	320	7500	500/D
	150	Compacted	1.4	1.5	47.0	2.50	2.8	58.5	0.124	700	397	356	9000	300/D
	185	Compacted	1.6	1.6	52.5	2.50	3.0	65.0	0.0991	700	455	400	11000	300/D
	240	Compacted	1.7	1.7	59.0	2.50	3.2	72.0	0.0754	650	535	459	14000	300/D
	300	Compacted	1.8	1.8	65.5	3.15	3.5	80.0	0.0601	600	608	511	18000	200/D
	400	Compacted	2.0	2.0	73.5	3.15	3.7	88.5	0.0470	600	699	574	22000	200/D

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)
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

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