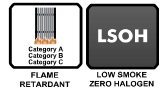
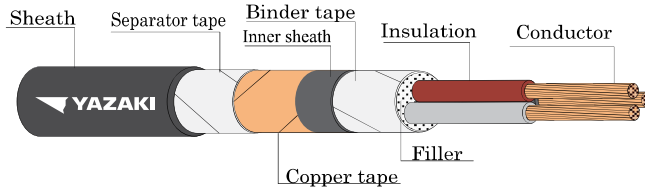


## FDLH-0.6/1KV-CCE-S

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



### CABLE STRUCTURE

**Conductor** : Stranded annealed copper  
**Insulation** : Cross-Linked polyethylene (XLPE)  
**Core identification**  
 2 cores : Blue, Brown  
 3 cores : Brown, Black, Grey  
 4 cores : Blue, Brown, Black, Grey

More than 4 cores : White with marking numbers, colored black, printed continuously throughout the whole length of insulated wires for the purpose of core identification

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

**Shield** : Copper tape

**Outer 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** : 1000 Volts between Line to Line

**Testing voltage** : 3,500 Volts

#### Reference Standard

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

Number of core	Nominal cross sectional area	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Dia. of Inner Sheath approx. (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)	Cable weight approx. (kg/km)	Standard Length (m)
	(mm <sup>2</sup> )										
2	1.5	Stranded	0.7	1.2	9.0	1.8	13.5	12.1	2,500	150	300/D
	2.5	Stranded	0.7	1.2	10.0	1.8	14.5	7.41	2,100	180	300/D
	4	Stranded	0.7	1.2	11.0	1.8	15.5	4.61	1,700	230	300/D
	6	Stranded	0.7	1.2	12.0	1.8	16.5	3.08	1,450	290	300/D
3	1.5	Stranded	0.7	1.2	9.5	1.8	14.0	12.1	2,500	180	300/D
	2.5	Stranded	0.7	1.2	11.0	1.8	15.0	7.41	2,100	230	300/D
	4	Stranded	0.7	1.2	12.0	1.8	16.0	4.61	1,700	300	300/D
4	6	Stranded	0.7	1.2	13.0	1.8	17.0	3.08	1,450	360	300/D
	1.5	Stranded	0.7	1.2	10.0	1.8	15.0	12.1	2,500	220	300/D
	2.5	Stranded	0.7	1.2	11.5	1.8	16.0	7.41	2,100	280	300/D
	4	Stranded	0.7	1.2	13.0	1.8	17.5	4.61	1,700	360	300/D
5	6	Stranded	0.7	1.2	14.0	1.8	18.5	3.08	1,450	460	300/D
	1.5	Stranded	0.7	1.2	11.5	1.8	16.0	12.1	2,500	260	300/D
	2.5	Stranded	0.7	1.2	13.0	1.8	17.0	7.41	2,100	330	300/D
6	4	Stranded	0.7	1.2	14.0	1.8	18.5	4.61	1,700	440	300/D
	6	Stranded	0.7	1.2	16.0	1.8	20.0	3.08	1,450	560	300/D
	1.5	Stranded	0.7	1.2	12.0	1.8	16.5	12.1	2,500	300	300/D
	2.5	Stranded	0.7	1.2	14.0	1.8	18.0	7.41	2,100	390	300/D
7	4	Stranded	0.7	1.2	15.0	1.8	20.0	4.61	1,700	520	300/D
	6	Stranded	0.7	1.2	17.0	1.8	21.5	3.08	1,450	650	300/D
	1.5	Stranded	0.7	1.2	12.0	1.8	16.5	12.1	2,500	320	300/D
7	2.5	Stranded	0.7	1.2	14.0	1.8	18.0	7.41	2,100	420	300/D
	4	Stranded	0.7	1.2	15.0	1.8	20.0	4.61	1,700	560	300/D
	6	Stranded	0.7	1.2	17.0	1.8	21.5	3.08	1,450	720	300/D

D : Packing in drum

### FDLH-0.6/1KV-CCE-S

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

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Dia. of Inner Sheath approx. (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight approx. (kg/km)	Standard Length (m)
								maximum (Ω/km)	minimum (MΩ·km)		
8	1.5	Stranded	0.7	1.2	13.0	1.8	18.0	12.1	2,500	380	300/D
	2.5	Stranded	0.7	1.2	15.0	1.8	19.0	7.41	2,100	480	300/D
	4	Stranded	0.7	1.2	16.5	1.8	21.0	4.61	1,700	640	300/D
9	6	Stranded	0.7	1.2	18.5	1.8	23.0	3.08	1,450	830	300/D
	1.5	Stranded	0.7	1.2	14.0	1.8	19.0	12.1	2,500	420	300/D
	2.5	Stranded	0.7	1.2	16.0	1.8	20.5	7.41	2,100	530	300/D
10	4	Stranded	0.7	1.2	18.0	1.8	22.0	4.61	1,700	730	300/D
	6	Stranded	0.7	1.2	20.0	1.8	24.5	3.08	1,450	930	300/D
	1.5	Stranded	0.7	1.2	15.0	1.8	20.0	12.1	2,500	480	300/D
11	2.5	Stranded	0.7	1.2	17.0	1.8	22.0	7.41	2,100	600	300/D
	4	Stranded	0.7	1.2	19.0	1.8	24.0	4.61	1,700	820	300/D
	6	Stranded	0.7	1.2	22.0	1.8	26.0	3.08	1,450	1,050	300/D
12	1.5	Stranded	0.7	1.2	15.0	1.8	20.0	12.1	2,500	490	300/D
	2.5	Stranded	0.7	1.2	17.0	1.8	22.0	7.41	2,100	630	300/D
	4	Stranded	0.7	1.2	19.0	1.8	24.0	4.61	1,700	850	300/D
13	6	Stranded	0.7	1.2	22.0	1.8	26.0	3.08	1,450	1,100	300/D
	1.5	Stranded	0.7	1.2	16.0	1.8	20.0	12.1	2,500	530	300/D
	2.5	Stranded	0.7	1.2	18.0	1.8	22.0	7.41	2,100	690	300/D
14	4	Stranded	0.7	1.2	20.0	1.8	24.0	4.61	1,700	930	300/D
	6	Stranded	0.7	1.2	22.5	1.8	27.0	3.08	1,450	1,200	300/D
	1.5	Stranded	0.7	1.2	17.0	1.8	21.0	12.1	2,500	570	300/D
15	2.5	Stranded	0.7	1.2	19.0	1.8	23.0	7.41	2,100	740	300/D
	4	Stranded	0.7	1.2	21.0	1.8	25.5	4.61	1,700	1,000	300/D
	6	Stranded	0.7	1.2	24.0	1.8	28.0	3.08	1,450	1,300	300/D
16	1.5	Stranded	0.7	1.2	17.0	1.8	21.0	12.1	2,500	580	300/D
	2.5	Stranded	0.7	1.2	19.0	1.8	23.0	7.41	2,100	750	300/D
	4	Stranded	0.7	1.2	21.0	1.8	25.5	4.61	1,700	1,030	300/D
17	6	Stranded	0.7	1.2	24.0	1.8	28.0	3.08	1,450	1,340	300/D
	1.5	Stranded	0.7	1.2	17.5	1.8	22.0	12.1	2,500	620	300/D
	2.5	Stranded	0.7	1.2	19.5	1.8	24.0	7.41	2,100	810	300/D
18	4	Stranded	0.7	1.2	22.0	1.8	26.0	4.61	1,700	1,100	300/D
	6	Stranded	0.7	1.2	24.5	1.8	29.0	3.08	1,450	1,450	300/D
	1.5	Stranded	0.7	1.2	18.0	1.8	22.0	12.1	2,500	650	300/D
19	2.5	Stranded	0.7	1.2	20.0	1.8	24.0	7.41	2,100	840	300/D
	4	Stranded	0.7	1.2	22.5	1.8	27.0	4.61	1,700	1,150	300/D
	6	Stranded	0.7	1.2	25.0	1.8	30.0	3.08	1,450	1,530	300/D
20	1.5	Stranded	0.7	1.2	18.5	1.8	23.0	12.1	2,500	720	300/D
	2.5	Stranded	0.7	1.2	21.0	1.8	25.5	7.41	2,100	920	300/D
	4	Stranded	0.7	1.2	23.5	1.8	28.0	4.61	1,700	1,250	300/D
21	6	Stranded	0.7	1.2	26.5	1.9	31.0	3.08	1,450	1,650	300/D
	1.5	Stranded	0.7	1.2	18.5	1.8	23.0	12.1	2,500	740	300/D
	2.5	Stranded	0.7	1.2	21.0	1.8	25.5	7.41	2,100	960	300/D
22	4	Stranded	0.7	1.2	23.5	1.8	28.0	4.61	1,700	1,330	300/D
	6	Stranded	0.7	1.2	26.5	1.9	31.0	3.08	1,450	1,750	300/D
	1.5	Stranded	0.7	1.2	19.0	1.8	23.5	12.1	2,500	780	300/D
23	2.5	Stranded	0.7	1.2	22.0	1.8	26.0	7.41	2,100	1,000	300/D
	4	Stranded	0.7	1.2	24.0	1.8	29.0	4.61	1,700	1,400	300/D
	6	Stranded	0.7	1.2	27.0	1.9	32.0	3.08	1,450	1,800	300/D

D : Packing in drum

### FDLH-0.6/1KV-CCE-S

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

Number of core	Nominal cross sectional area	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Dia. of Inner Sheath approx. (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight approx. (kg/km)	Standard Length (m)
	(mm <sup>2</sup> )							maximum (Ω/km)	minimum (MΩ-km)		
21	1.5	Stranded	0.7	1.2	19.5	1.8	24.0	12.1	2,500	820	300/D
	2.5	Stranded	0.7	1.2	22.0	1.8	27.0	7.41	2,100	1,050	300/D
	4	Stranded	0.7	1.2	25.0	1.8	29.0	4.61	1,700	1,500	300/D
	6	Stranded	0.7	1.2	28.0	1.9	33.0	3.08	1,450	1,900	300/D
22	1.5	Stranded	0.7	1.2	20.5	1.8	25.0	12.1	2,500	860	300/D
	2.5	Stranded	0.7	1.2	23.5	1.8	28.0	7.41	2,100	1,100	300/D
	4	Stranded	0.7	1.2	26.0	1.9	31.0	4.61	1,700	1,600	300/D
23	6	Stranded	0.7	1.2	29.5	2.0	34.0	3.08	1,450	2,000	300/D
	1.5	Stranded	0.7	1.2	20.5	1.8	25.0	12.1	2,500	890	300/D
	2.5	Stranded	0.7	1.2	23.5	1.8	28.0	7.41	2,100	1,200	300/D
24	4	Stranded	0.7	1.2	26.0	1.9	31.0	4.61	1,700	1,600	300/D
	6	Stranded	0.7	1.2	29.5	2.0	34.0	3.08	1,450	2,100	300/D
	1.5	Stranded	0.7	1.2	22.0	1.8	26.0	12.1	2,500	930	300/D
	2.5	Stranded	0.7	1.2	24.5	1.8	29.0	7.41	2,100	1,200	300/D
25	4	Stranded	0.7	1.2	27.5	1.9	32.0	4.61	1,700	1,700	300/D
	6	Stranded	0.7	1.2	31.0	2.1	36.0	3.08	1,450	2,200	300/D
	1.5	Stranded	0.7	1.2	22.0	1.8	26.0	12.1	2,500	960	300/D
	2.5	Stranded	0.7	1.2	24.5	1.8	29.0	7.41	2,100	1,200	300/D
26	4	Stranded	0.7	1.2	27.5	1.9	32.0	4.61	1,700	1,700	300/D
	6	Stranded	0.7	1.2	31.0	2.1	36.0	3.08	1,450	2,300	300/D
	1.5	Stranded	0.7	1.2	22.0	1.8	26.0	12.1	2,500	1,000	300/D
	2.5	Stranded	0.7	1.2	24.5	1.8	29.0	7.41	2,100	1,300	300/D
27	4	Stranded	0.7	1.2	27.5	1.9	32.0	4.61	1,700	1,800	300/D
	6	Stranded	0.7	1.2	31.0	2.1	36.0	3.08	1,450	2,400	300/D
	1.5	Stranded	0.7	1.2	22.0	1.8	26.5	12.1	2,500	1,000	300/D
	2.5	Stranded	0.7	1.2	25.0	1.8	29.5	7.41	2,100	1,350	300/D
28	4	Stranded	0.7	1.2	28.0	2.0	33.0	4.61	1,700	1,900	300/D
	1.5	Stranded	0.7	1.2	23.0	1.8	27.0	12.1	2,500	1,100	300/D
	2.5	Stranded	0.7	1.2	26.0	1.9	31.0	7.41	2,100	1,400	300/D
29	4	Stranded	0.7	1.2	29.0	2.0	34.0	4.61	1,700	2,000	300/D
	1.5	Stranded	0.7	1.2	23.0	1.8	27.0	12.1	2,500	1,100	300/D
	2.5	Stranded	0.7	1.2	26.0	1.9	31.0	7.41	2,100	1,400	300/D
30	4	Stranded	0.7	1.2	29.0	2.0	34.0	4.61	1,700	2,000	300/D
	1.5	Stranded	0.7	1.2	23.0	1.8	27.0	12.1	2,500	1,100	300/D
	2.5	Stranded	0.7	1.2	26.0	1.9	31.0	7.41	2,100	1,500	300/D
30	4	Stranded	0.7	1.2	29.0	2.0	34.0	4.61	1,700	2,100	300/D

D : Packing in drum

### FDLH-0.6-1KV-CCE or FDLH-0.6-1KV-CCE-S

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

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

#### ARRANGEMENT OF CORES

 2 CORES	 3 CORES	 4 CORES	 5 CORES	 6 CORES
 7 CORES	 8 CORES	 9 CORES	 10 CORES	 11 CORES
 12 CORES	 13 CORES	 14 CORES	 15 CORES	 16 CORES
 17 CORES	 18 CORES	 19 CORES	 20 CORES	 21 CORES
 22 CORES	 23 CORES	 24 CORES	 25 CORES	 26 CORES
 27 CORES	 28 CORES	 29 CORES	 30 CORES	

**NOTE :** Fillers are necessary to fill the cable a substantially circular cross section.  
(If the stranded cores be circle enough, fillers shall not be necessary)