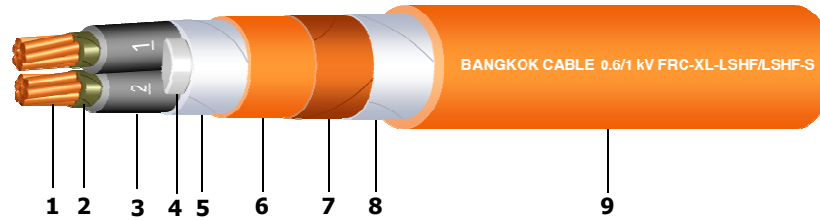


## 0.6/1 kV FRC-XL-LSHF/LSHF-S

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CONTROL CABLES WITH METALLIC SHIELD



### Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z : IEC 60331-21
Flame propagation	: IEC 60332-1-2 : IEC 60332-3 Categories A, B, C
Acid gas emission	: IEC 60754-2
Smoke emission	: IEC 61034-2

### Construction :

1. Conductor	: Concentric stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked low smoke & halogen free compound (XL-LSHF), Black marking number
4. Filler	: LSHF rod and/or FR-filler yarn
5. Binding tape	: Polyester tape
6. Inner sheath	: Low smoke & halogen free compound (LSHF)
7. Metallic shield	: Annealed copper tape
8. Binding tape	: Polyester tape
9. Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour

### Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

### Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation mm (Nominal)	Thickness of inner sheath mm (Approx.)	Thickness of outer sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 20°C MΩ.km (Min.)	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm <sup>2</sup>	No. of wires (Min.)	Diameter mm (Approx.)								
2	1.5	7	1.53	0.7	1.0	1.8	15.5	12.1	2,500	280	500
	2.5	7	1.98	0.7	1.0	1.8	16.0	7.41	2,100	320	500
	4	7	2.49	0.7	1.0	1.8	17.5	4.61	1,800	390	500
	6	7	3.09	0.7	1.0	1.8	18.5	3.08	1,500	460	500
	10	7	3.99	0.7	1.0	1.8	20.5	1.83	1,200	600	500
3	1.5	7	1.53	0.7	1.0	1.8	16.0	12.1	2,500	330	500
	2.5	7	1.98	0.7	1.0	1.8	17.0	7.41	2,100	380	500
	4	7	2.49	0.7	1.0	1.8	18.0	4.61	1,800	460	500
	6	7	3.09	0.7	1.0	1.8	19.5	3.08	1,500	560	500
	10	7	3.99	0.7	1.0	1.8	21.5	1.83	1,200	740	500
4	1.5	7	1.53	0.7	1.0	1.8	17.0	12.1	2,500	380	500
	2.5	7	1.98	0.7	1.0	1.8	18.0	7.41	2,100	450	500
	4	7	2.49	0.7	1.0	1.8	19.5	4.61	1,800	550	500
	6	7	3.09	0.7	1.0	1.8	21.0	3.08	1,500	670	500
	10	7	3.99	0.7	1.0	1.8	23.0	1.83	1,200	910	500
5	1.5	7	1.53	0.7	1.0	1.8	18.5	12.1	2,500	430	500
	2.5	7	1.98	0.7	1.0	1.8	19.5	7.41	2,100	520	500
	4	7	2.49	0.7	1.0	1.8	21.0	4.61	1,800	640	500
	6	7	3.09	0.7	1.0	1.8	22.5	3.08	1,500	790	500
	10	7	3.99	0.7	1.0	1.8	25.0	1.83	1,200	1,080	500

## 0.6/1 kV FRC-XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation mm (Nominal)	Thickness of inner sheath mm (Approx.)	Thickness of outer sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 20°C MΩ.km (Min.)	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm <sup>2</sup>	No. of wires (Min.)	Diameter mm (Approx.)								
6	1.5	7	1.53	0.7	1.0	1.8	19.5	12.1	2,500	470	500
	2.5	7	1.98	0.7	1.0	1.8	21.0	7.41	2,100	570	500
	4	7	2.49	0.7	1.0	1.8	22.5	4.61	1,800	700	500
	6	7	3.09	0.7	1.0	1.8	24.0	3.08	1,500	880	500
	10	7	3.99	0.7	1.0	1.8	27.0	1.83	1,200	1,200	500
7	1.5	7	1.53	0.7	1.0	1.8	19.5	12.1	2,500	480	500
	2.5	7	1.98	0.7	1.0	1.8	21.0	7.41	2,100	580	500
	4	7	2.49	0.7	1.0	1.8	22.5	4.61	1,800	730	500
	6	7	3.09	0.7	1.0	1.8	24.0	3.08	1,500	920	500
	10	7	3.99	0.7	1.0	1.8	27.0	1.83	1,200	1,280	500
8	1.5	7	1.53	0.7	1.0	1.8	21.0	12.1	2,500	550	500
	2.5	7	1.98	0.7	1.0	1.8	22.0	7.41	2,100	660	500
	4	7	2.49	0.7	1.0	1.8	24.0	4.61	1,800	840	500
	6	7	3.09	0.7	1.0	1.8	26.0	3.08	1,500	1,050	500
	10	7	3.99	0.7	1.0	1.8	29.0	1.83	1,200	1,470	500
9	1.5	7	1.53	0.7	1.0	1.8	22.0	12.1	2,500	610	500
	2.5	7	1.98	0.7	1.0	1.8	23.5	7.41	2,100	740	500
	4	7	2.49	0.7	1.0	1.8	25.5	4.61	1,800	930	500
	6	7	3.09	0.7	1.0	1.8	27.5	3.08	1,500	1,180	500
	10	7	3.99	0.7	1.0	1.8	31.0	1.83	1,200	1,650	500
10	1.5	7	1.53	0.7	1.0	1.8	23.5	12.1	2,500	660	500
	2.5	7	1.98	0.7	1.0	1.8	25.5	7.41	2,100	800	500
	4	7	2.49	0.7	1.0	1.8	27.5	4.61	1,800	1,020	500
	6	7	3.09	0.7	1.0	1.8	30.0	3.08	1,500	1,290	500
	10	7	3.99	0.7	1.0	1.8	33.5	1.83	1,200	1,800	500
11	1.5	7	1.53	0.7	1.0	1.8	24.5	12.1	2,500	710	500
	2.5	7	1.98	0.7	1.0	1.8	26.0	7.41	2,100	870	500
	4	7	2.49	0.7	1.0	1.8	28.5	4.61	1,800	1,110	500
	6	7	3.09	0.7	1.0	1.8	31.0	3.08	1,500	1,410	500
	10	7	3.99	0.7	1.0	1.8	34.5	1.83	1,200	1,980	500
12	1.5	7	1.53	0.7	1.0	1.8	24.5	12.1	2,500	730	500
	2.5	7	1.98	0.7	1.0	1.8	26.0	7.41	2,100	900	500
	4	7	2.49	0.7	1.0	1.8	28.5	4.61	1,800	1,160	500
	6	7	3.09	0.7	1.0	1.8	31.0	3.08	1,500	1,470	500
	10	7	3.99	0.7	1.0	1.8	34.5	1.83	1,200	2,080	500
13	1.5	7	1.53	0.7	1.0	1.8	25.5	12.1	2,500	800	500
	2.5	7	1.98	0.7	1.0	1.8	27.5	7.41	2,100	980	500
	4	7	2.49	0.7	1.0	1.8	29.5	4.61	1,800	1,260	500
	6	7	3.09	0.7	1.0	1.8	32.0	3.08	1,500	1,600	500
	10	7	3.99	0.7	1.0	1.8	36.5	1.83	1,200	2,270	500
14	1.5	7	1.53	0.7	1.0	1.8	25.5	12.1	2,500	820	500
	2.5	7	1.98	0.7	1.0	1.8	27.5	7.41	2,100	1,010	500
	4	7	2.49	0.7	1.0	1.8	29.5	4.61	1,800	1,300	500
	6	7	3.09	0.7	1.0	1.8	32.0	3.08	1,500	1,660	500
	10	7	3.99	0.7	1.0	1.8	36.5	1.83	1,200	2,370	500
15	1.5	7	1.53	0.7	1.0	1.8	26.5	12.1	2,500	810	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,010	500
	4	7	2.49	0.7	1.0	1.8	31.0	4.61	1,800	1,320	500
	6	7	3.09	0.7	1.0	1.8	34.0	3.08	1,500	1,700	500
	10	7	3.99	0.7	1.0	1.9	38.5	1.83	1,200	2,460	500

## 0.6/1 kV FRC-XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation mm (Nominal)	Thickness of inner sheath mm (Approx.)	Thickness of outer sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 20°C MΩ.km (Min.)	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm <sup>2</sup>	No. of wires (Min.)	Diameter mm (Approx.)								
16	1.5	7	1.53	0.7	1.0	1.8	26.5	12.1	2,500	910	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,130	500
	4	7	2.49	0.7	1.0	1.8	31.0	4.61	1,800	1,457	500
	6	7	3.09	0.7	1.0	1.8	34.0	3.08	1,500	1,870	500
	10	7	3.99	0.7	1.0	1.9	38.5	1.83	1,200	2,690	500
17	1.5	7	1.53	0.7	1.0	1.8	28.0	12.1	2,500	970	500
	2.5	7	1.98	0.7	1.0	1.8	30.0	7.41	2,100	1,210	500
	4	7	2.49	0.7	1.0	1.8	32.5	4.61	1,800	1,570	500
	6	7	3.09	0.7	1.0	1.8	35.5	3.08	1,500	2,020	500
	10	7	3.99	0.7	1.0	1.9	40.5	1.83	1,200	2,900	400
18	1.5	7	1.53	0.7	1.0	1.8	28.0	12.1	2,500	990	500
	2.5	7	1.98	0.7	1.0	1.8	30.0	7.41	2,100	1,240	500
	4	7	2.49	0.7	1.0	1.8	32.5	4.61	1,800	1,610	500
	6	7	3.09	0.7	1.0	1.8	35.5	3.08	1,500	2,080	500
	10	7	3.99	0.7	1.0	1.9	40.5	1.83	1,200	3,000	400
19	1.5	7	1.53	0.7	1.0	1.8	28.0	12.1	2,500	1,020	500
	2.5	7	1.98	0.7	1.0	1.8	30.0	7.41	2,100	1,270	500
	4	7	2.49	0.7	1.0	1.8	32.5	4.61	1,800	1,660	500
	6	7	3.09	0.7	1.0	1.8	35.5	3.08	1,500	2,140	500
	10	7	3.99	0.7	1.0	1.9	40.5	1.83	1,200	3,100	400
20	1.5	7	1.53	0.7	1.0	1.8	29.0	12.1	2,500	1,090	500
	2.5	7	1.98	0.7	1.0	1.8	31.5	7.41	2,100	1,360	500
	4	7	2.49	0.7	1.0	1.8	34.5	4.61	1,800	1,780	500
	6	7	3.09	0.7	1.0	1.9	37.5	3.08	1,500	2,310	500
	10	7	3.99	0.7	1.2	2.0	43.0	1.83	1,200	3,380	400
21	1.5	7	1.53	0.7	1.0	1.8	29.0	12.1	2,500	1,100	500
	2.5	7	1.98	0.7	1.0	1.8	31.5	7.41	2,100	1,380	500
	4	7	2.49	0.7	1.0	1.8	34.5	4.61	1,800	1,810	500
	6	7	3.09	0.7	1.0	1.9	37.5	3.08	1,500	2,360	500
	10	7	3.99	0.7	1.2	2.0	43.0	1.83	1,200	3,460	400
22	1.5	7	1.53	0.7	1.0	1.8	30.5	12.1	2,500	1,180	500
	2.5	7	1.98	0.7	1.0	1.8	33.0	7.41	2,100	1,480	500
	4	7	2.49	0.7	1.0	1.8	36.0	4.61	1,800	1,940	500
	6	7	3.09	0.7	1.0	1.9	39.5	3.08	1,500	2,530	500
	10	7	3.99	0.7	1.2	2.1	45.5	1.83	1,200	3,730	400
23	1.5	7	1.53	0.7	1.0	1.8	30.5	12.1	2,500	1,190	500
	2.5	7	1.98	0.7	1.0	1.8	33.0	7.41	2,100	1,500	500
	4	7	2.49	0.7	1.0	1.8	36.0	4.61	1,800	1,970	500
	6	7	3.09	0.7	1.0	1.9	39.5	3.08	1,500	2,560	500
	10	7	3.99	0.7	1.2	2.1	45.5	1.83	1,200	3,790	400
24	1.5	7	1.53	0.7	1.0	1.8	32.0	12.1	2,500	1,250	500
	2.5	7	1.98	0.7	1.0	1.8	34.5	7.41	2,100	1,570	500
	4	7	2.49	0.7	1.0	1.8	38.0	4.61	1,800	2,050	500
	6	7	3.09	0.7	1.2	2.0	42.0	3.08	1,500	2,740	400
	10	7	3.99	0.7	1.2	2.1	48.0	1.83	1,200	3,960	400
25	1.5	7	1.53	0.7	1.0	1.8	32.5	12.1	2,500	1,310	500
	2.5	7	1.98	0.7	1.0	1.8	35.5	7.41	2,100	1,650	500
	4	7	2.49	0.7	1.0	1.8	38.5	4.61	1,800	2,160	500
	6	7	3.09	0.7	1.2	2.0	43.0	3.08	1,500	2,880	400
	10	7	3.99	0.7	1.2	2.1	49.0	1.83	1,200	4,120	400

## 0.6/1 kV FRC-XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation mm (Nominal)	Thickness of inner sheath mm (Approx.)	Thickness of outer sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 20°C MΩ.km (Min.)	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm <sup>2</sup>	No. of wires (Min.)	Diameter mm (Approx.)								
26	1.5	7	1.53	0.7	1.0	1.8	32.5	12.1	2,500	1,330	500
	2.5	7	1.98	0.7	1.0	1.8	35.5	7.41	2,100	1,680	500
	4	7	2.49	0.7	1.0	1.8	38.5	4.61	1,800	2,210	500
	6	7	3.09	0.7	1.2	2.0	43.0	3.08	1,500	2,940	400
	10	7	3.99	0.7	1.2	2.1	49.0	1.83	1,200	4,260	400
27	1.5	7	1.53	0.7	1.0	1.8	32.5	12.1	2,500	1,350	500
	2.5	7	1.98	0.7	1.0	1.8	35.5	7.41	2,100	1,710	500
	4	7	2.49	0.7	1.0	1.9	39.0	4.61	1,800	2,270	500
	6	7	3.09	0.7	1.2	2.0	43.0	3.08	1,500	3,010	400
	10	7	3.99	0.7	1.2	2.2	49.0	1.83	1,200	4,390	400
28	1.5	7	1.53	0.7	1.0	1.8	34.0	12.1	2,500	1,420	500
	2.5	7	1.98	0.7	1.0	1.8	36.5	7.41	2,100	1,800	500
	4	7	2.49	0.7	1.0	1.9	40.0	4.61	1,800	2,390	400
	6	7	3.09	0.7	1.2	2.0	44.5	3.08	1,500	3,160	400
	10	7	3.99	0.7	1.2	2.2	51.0	1.83	1,200	4,610	300
29	1.5	7	1.53	0.7	1.0	1.8	34.0	12.1	2,500	1,450	500
	2.5	7	1.98	0.7	1.0	1.8	36.5	7.41	2,100	1,830	500
	4	7	2.49	0.7	1.0	1.9	40.0	4.61	1,800	2,430	400
	6	7	3.09	0.7	1.2	2.0	44.5	3.08	1,500	3,220	400
	10	7	3.99	0.7	1.2	2.2	51.0	1.83	1,200	4,710	300
30	1.5	7	1.53	0.7	1.0	1.8	34.0	12.1	2,500	1,470	500
	2.5	7	1.98	0.7	1.0	1.8	36.5	7.41	2,100	1,860	500
	4	7	2.49	0.7	1.0	1.9	40.0	4.61	1,800	2,480	400
	6	7	3.09	0.7	1.2	2.0	44.5	3.08	1,500	3,290	400
	10	7	3.99	0.7	1.2	2.2	51.0	1.83	1,200	4,810	300