

0.6/1 kV FRC-XLPE/LSHF (1 CORE)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



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 60332-3-24 Category C
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE), Natural colour
4. 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

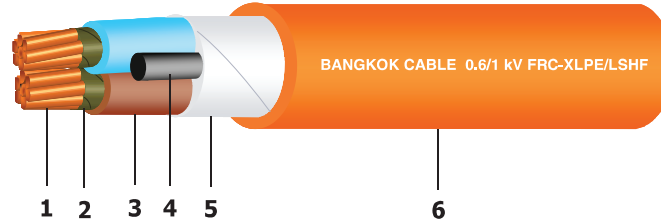
Application :

Preferably used for installation into conduit and surface 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 sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm ²	No. of wires (Min.)	Diameter mm (Approx.)							
1	1.5	7	1.53	0.7	1.4	7.0	12.1	27	60	500
1	2.5	7	1.98	0.7	1.4	7.5	7.41	38	70	500
1	4	7	2.49	0.7	1.4	8.0	4.61	51	90	500
1	6	7	3.09	0.7	1.4	8.5	3.08	66	110	500
1	10	6	3.72	0.7	1.4	9.5	1.83	92	160	500
1	16	6	4.69	0.7	1.4	10.0	1.15	124	220	500
1	25	6	5.90	0.9	1.4	12.0	0.727	166	320	500
1	35	6	6.95	0.9	1.4	13.0	0.524	206	420	500
1	50	6	8.33	1.0	1.4	14.5	0.387	259	550	500
1	70	12	9.73	1.1	1.4	16.0	0.268	321	760	500
1	95	15	11.43	1.1	1.5	18.0	0.193	391	1,030	500
1	120	18	12.95	1.2	1.5	20.0	0.153	455	1,280	500
1	150	18	14.27	1.4	1.6	22.0	0.124	525	1,580	500
1	185	30	15.98	1.6	1.6	24.0	0.0991	602	1,950	500
1	240	34	18.47	1.7	1.7	27.0	0.0754	711	2,540	500
1	300	34	20.68	1.8	1.8	29.5	0.0601	821	3,160	500
1	400	53	23.39	2.0	1.9	33.0	0.0470	988	4,010	500

0.6/1 kV FRC-XLPE/LSHF (2 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



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 60332-3-24 Category C : IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1 : IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown colour or requested colour
4. Filler	: LSHF rod
5. Binding tape	: Fiberglass tape
6. 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 surface 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 sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm ²	No. of wires (Min.)	Diameter mm (Approx.)							
2	1.5	7	1.53	0.7	1.8	13.0	12.1	24	160	500
2	2.5	7	1.98	0.7	1.8	13.5	7.41	33	190	500
2	4	7	2.49	0.7	1.8	15.0	4.61	44	250	500
2	6	7	3.09	0.7	1.8	16.0	3.08	57	310	500
2	10	6	3.72	0.7	1.8	17.0	1.83	78	410	500
2	16	6	4.69	0.7	1.8	19.0	1.15	105	560	500
2	25	6	5.90	0.9	1.8	22.5	0.727	135	820	500
2	35	6	6.95	0.9	1.8	25.0	0.524	168	1,070	500
2	50	6	8.33	1.0	1.8	28.0	0.387	212	1,400	500
2	70	12	9.73	1.1	1.8	31.5	0.268	263	1,900	500
2	95	15	11.43	1.1	1.9	35.0	0.193	321	2,540	500
2	120	18	12.95	1.2	2.0	38.5	0.153	373	3,160	500
2	150	18	14.27	1.4	2.1	42.5	0.124	431	3,880	400
2	185	30	15.98	1.6	2.3	47.5	0.0991	493	4,840	400
2	240	34	18.47	1.7	2.5	53.0	0.0754	584	6,260	300
2	300	34	20.68	1.8	2.6	58.5	0.0601	674	7,730	250
2	400	53	23.39	2.0	2.9	65.5	0.0470	812	9,840	200

0.6/1 kV FRC-XLPE/LSHF (3 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



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 60332-3-24 Category C : IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1 : IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE) Brown, Black, Grey colour or requested colour
4. Filler	: LSHF rod
5. Binding tape	: Fiberglass tape
6. 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 surface 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 sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm ²	No. of wires (Min.)	Diameter mm (Approx.)							
3	1.5	7	1.53	0.7	1.8	13.5	12.1	21	190	500
3	2.5	7	1.98	0.7	1.8	14.5	7.41	29	240	500
3	4	7	2.49	0.7	1.8	15.5	4.61	38	300	500
3	6	7	3.09	0.7	1.8	17.0	3.08	49	380	500
3	10	6	3.72	0.7	1.8	18.0	1.83	68	520	500
3	16	6	4.69	0.7	1.8	20.0	1.15	91	740	500
3	25	6	5.90	0.9	1.8	24.0	0.727	116	1,100	500
3	35	6	6.95	0.9	1.8	26.5	0.524	144	1,430	500
3	50	6	8.33	1.0	1.8	30.0	0.387	180	1,880	500
3	70	12	9.73	1.1	1.9	33.5	0.268	224	2,600	500
3	95	15	11.43	1.1	2.0	37.5	0.193	271	3,490	500
3	120	18	12.95	1.2	2.1	41.5	0.153	315	4,350	500
3	150	18	14.27	1.4	2.2	45.5	0.124	363	5,340	400
3	185	30	15.98	1.6	2.4	51.0	0.0991	415	6,660	400
3	240	34	18.47	1.7	2.6	57.0	0.0754	490	8,650	250
3	300	34	20.68	1.8	2.7	62.5	0.0601	565	10,710	200
3	400	53	23.39	2.0	3.0	70.0	0.0470	678	13,620	150

0.6/1 kV FRC-XLPE/LSHF (4 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



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 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Blue, Brown, Black, Grey colour or requested colour
4. Filler	: LSHF rod
5. Binding tape	: Fiberglass tape
6. 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 surface 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 sheath mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m
	Cross-sectional area mm ²	No. of wires (Min.)	Diameter mm (Approx.)							
4	1.5	7	1.53	0.7	1.8	14.5	12.1	21	230	500
4	2.5	7	1.98	0.7	1.8	15.5	7.41	29	290	500
4	4	7	2.49	0.7	1.8	17.0	4.61	38	370	500
4	6	7	3.09	0.7	1.8	18.5	3.08	49	480	500
4	10	6	3.72	0.7	1.8	20.0	1.83	68	660	500
4	16	6	4.69	0.7	1.8	22.0	1.15	91	930	500
4	25	6	5.90	0.9	1.8	26.5	0.727	116	1,400	500
4	35	6	6.95	0.9	1.8	29.0	0.524	144	1,840	500
4	50	6	8.33	1.0	1.8	33.0	0.387	180	2,420	500
4	70	12	9.73	1.1	2.0	37.5	0.268	224	3,380	500
4	95	15	11.43	1.1	2.1	41.5	0.193	271	4,540	400
4	120	18	12.95	1.2	2.3	46.5	0.153	315	5,680	400
4	150	18	14.27	1.4	2.4	51.0	0.124	363	6,980	300
4	185	30	15.98	1.6	2.6	56.5	0.0991	415	8,710	250
4	240	34	18.47	1.7	2.8	63.5	0.0754	490	11,310	200
4	300	34	20.68	1.8	3.0	70.0	0.0601	565	14,040	150
4	400	53	23.39	2.0	3.3	78.5	0.0470	678	17,850	100