

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

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



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) Blue, Brown colour or requested colour
4. Filler	: LSHF rod and/or FR-filler yarn
5. Binding tape	: Polyester tape
6. Inner sheath	: Low smoke & halogen free compound (LSHF)
7. Armour	: Galvanized steel wires
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.)	Diameter of wire armour mm (Nominal)	Thickness of outer 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	1.0	0.8	1.8	17.5	12.1	26	420	500
2	2.5	7	1.98	0.7	1.0	0.8	1.8	18.5	7.41	35	480	500
2	4	7	2.49	0.7	1.0	1.25	1.8	20.5	4.61	46	680	500
2	6	7	3.09	0.7	1.0	1.25	1.8	21.5	3.08	59	770	500
2	10	6	3.72	0.7	1.0	1.25	1.8	23.0	1.83	80	910	500
2	16	6	4.69	0.7	1.0	1.25	1.8	25.0	1.15	105	1,120	500
2	25	6	5.90	0.9	1.0	1.6	1.8	29.0	0.727	140	1,630	500
2	35	6	6.95	0.9	1.0	1.6	1.8	31.5	0.524	170	1,960	500
2	50	6	8.33	1.0	1.0	1.6	1.9	35.0	0.387	210	2,430	500
2	70	12	9.73	1.1	1.0	2.0	2.1	39.5	0.268	260	3,340	500
2	95	15	11.43	1.1	1.2	2.0	2.2	43.5	0.193	320	4,190	400
2	120	18	12.95	1.2	1.2	2.0	2.3	47.0	0.153	370	4,970	400
2	150	18	14.27	1.4	1.2	2.5	2.4	52.0	0.124	420	6,270	300
2	185	30	15.98	1.6	1.4	2.5	2.6	57.0	0.0991	480	7,550	300
2	240	34	18.47	1.7	1.4	2.5	2.8	63.0	0.0754	560	9,300	200
2	300	34	20.68	1.8	1.6	2.5	2.9	68.5	0.0601	635	11,150	150
2	400	53	23.39	2.0	1.6	2.5	3.2	75.5	0.0470	725	13,650	100