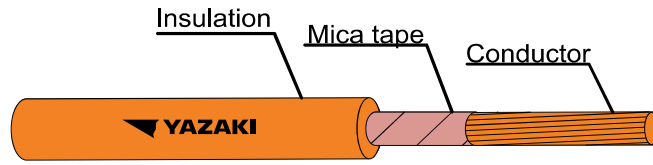


# FS/LH-0.6/1KV-XLPE (C)

600/1000V 90 °C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED FLAME RETARDANT WITH LOW SMOKE AND ZERO HALOGEN POWER CABLE



## CABLE STRUCTURE

- Conductor** : Non-Compacted and compacted round annealed copper
- Fire barrier tape** : Mica tape
- Insulation** : Flame retardant Low smoke & halogen free Cross-linked polyethylene (LSHF-XLPE : EI5)
- Core identification**  
Single-cores : Orange

## TECHNICAL DATA

- Classification** : Maximum conductor temperature 90 °C  
: Circuit voltage not exceeding 600/1000 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** : BS EN 50525-3-41
- Circuit integrity** : BS 6387 Category C,W,Z
- Flame retardant** : BS EN 60332-1-2  
BS EN IEC 60332-3-22 Category A  
BS EN IEC 60332-3-23 Category B  
BS EN IEC 60332-3-24 Category C
- Acid gas emission** : BS EN 60754-1, BS EN 60754-2
- Smoke emission** : BS EN 61034-2
- Non-toxic gases** : Defence standard 02-713

## APPLICATION

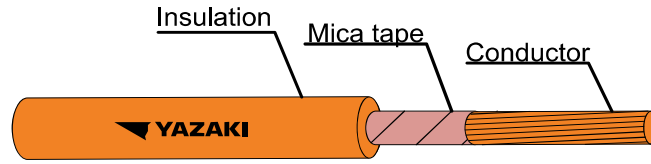
For fixed installation in electrical cabinet, conduit, trench and tray which provide flame retardant, low smoke & corrosive gases properties and main circuit integrity under fire.

Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 90°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in conduit in free air at 40°C maximum (A)		Cable weight approx. (kg/km)	Standard Length (m)
							1 Phase	3 Phase		
1.5	Non-Compacted	0.7	4.3	12.1	0.0100	31	21	18	30	500/D
2.5	Non-Compacted	0.8	4.8	7.41	0.0090	41	28	25	40	500/D
4	Non-Compacted	0.8	5.3	4.61	0.0077	54	38	34	60	500/D
6	Non-Compacted	0.8	5.9	3.08	0.0065	69	49	44	80	500/D
10	Compacted	1.0	6.6	1.83	0.0065	93	68	60	120	500/D
16	Compacted	1.0	7.6	1.15	0.0050	123	91	80	180	500/D
25	Compacted	1.2	9.2	0.727	0.0050	164	121	106	270	500/D
35	Compacted	1.2	10.5	0.524	0.0043	202	149	131	360	500/D
50	Compacted	1.4	12.0	0.387	0.0043	246	180	159	490	500/D
70	Compacted	1.4	13.5	0.268	0.0035	311	230	202	700	500/D
95	Compacted	1.6	16.0	0.193	0.0035	388	278	245	950	500/D
120	Compacted	1.6	17.5	0.153	0.0032	452	322	284	1200	500/D
150	Compacted	1.8	19.0	0.124	0.0032	518	358	311	1500	500/D
185	Compacted	2.0	22.0	0.0991	0.0032	601	409	349	1800	500/D
240	Compacted	2.2	24.0	0.0754	0.0032	719	480	410	2400	500/D
300	Compacted	2.4	27.0	0.0601	0.0030	833	549	468	3000	500/D
400	Compacted	2.6	30.0	0.0470	0.0028	973	622	531	3800	500/D
500	Compacted	2.8	34.0	0.0366	0.0028	1141	713	606	4900	500/D
630	Compacted	2.8	37.0	0.0283	0.0025	1336	819	695	6000	500/D

D : Packing in drum

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BS EN IEC 60332-3-24 Category C

**Acid gas emission** : BS EN 60754-1, BS EN 60754-2  
**Smoke emission** : BS EN 61034-2  
**Non-toxic gases** : Defence standard 02-713

### APPLICATION

For fixed installation in electrical cabinet, conduit, trench and tray which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity under fire.

Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	A.C.Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
1.5	Non-Compacted	15.4287	0.5276	0.1657	15.4292
2.5	Non-Compacted	9.4485	0.5253	0.1650	9.4499
4	Non-Compacted	5.8782	0.5013	0.1575	5.8803
6	Non-Compacted	3.9273	0.4860	0.1527	3.9303
10	Compacted	2.3335	0.4844	0.1522	2.3384
16	Compacted	1.4665	0.4674	0.1468	1.4738
25	Compacted	0.9272	0.4630	0.1455	0.9384
35	Compacted	0.6684	0.4544	0.1427	0.6834
50	Compacted	0.4938	0.4430	0.1392	0.5129
70	Compacted	0.3422	0.4339	0.1363	0.3682
95	Compacted	0.2468	0.4343	0.1364	0.2817
120	Compacted	0.1960	0.4260	0.1338	0.2370
150	Compacted	0.1592	0.4261	0.1339	0.2077
185	Compacted	0.1278	0.4263	0.1339	0.1847
240	Compacted	0.0980	0.4225	0.1327	0.1645
300	Compacted	0.0790	0.4210	0.1323	0.1536
400	Compacted	0.0630	0.4192	0.1317	0.1454
500	Compacted	0.4880	0.4168	0.1309	0.1398
630	Compacted	0.0388	0.4122	0.1295	0.1352