

# 0.6/1KV-FRLH-IE



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



## CABLE STRUCTURE


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

## TECHNICAL DATA

- Classification** : Maximum conductor temperature 90 °C  
: Circuit voltage not exceeding 1,200 Volts
- Rated voltage** : 600 Volts between Line to Earth  
: 1,000 Volts between Line to Line
- Testing voltage** : 3,500 Volts
- Reference standard**
- Construction** : BS EN 50525-3-41
- Flame retardant** : IEC 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 and wire way which provide flame retardant, low smoke and non toxic emission under fire.

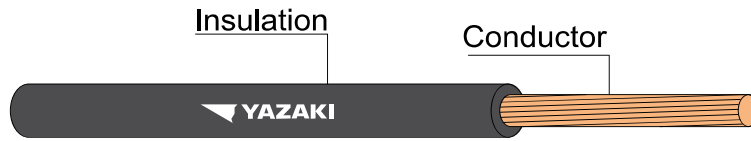
Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	Insulation thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 90°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A) 	Continuous current rating 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	3.2	12.1	0.0100	29	21	18	22	1000/D
2.5	Non-Compacted	0.8	4.0	7.41	0.0090	39	28	25	35	1000/D
4	Non-Compacted	0.8	4.5	4.61	0.0077	52	38	34	50	1000/D
6	Non-Compacted	0.8	5.1	3.08	0.0065	66	49	44	70	1000/D
10	Compacted	1.0	6.0	1.83	0.0065	90	68	60	110	1000/D
16	Compacted	1.0	7.0	1.15	0.0050	120	91	80	170	1000/D
25	Compacted	1.2	8.6	0.727	0.0050	161	121	106	260	1000/D
35	Compacted	1.2	9.7	0.524	0.0043	199	149	131	360	1000/D
50	Compacted	1.4	11.5	0.387	0.0043	243	180	159	480	1000/D
70	Compacted	1.4	13.0	0.268	0.0035	308	230	202	650	1000/D
95	Compacted	1.6	15.5	0.193	0.0035	385	278	245	950	1000/D
120	Compacted	1.6	17.0	0.153	0.0032	449	322	284	1,200	1000/D
150	Compacted	1.8	18.5	0.124	0.0032	515	358	311	1,500	1000/D
185	Compacted	2.0	21.0	0.0991	0.0032	598	409	349	1,800	1000/D
240	Compacted	2.2	24.0	0.0754	0.0032	716	480	410	2,400	1000/D
300	Compacted	2.4	26.0	0.0601	0.0030	830	549	468	3,000	1000/D
400	Compacted	2.6	29.0	0.0470	0.0028	970	622	531	3,800	1000/D
500	Compacted	2.8	33.0	0.0366	0.0028	1138	713	606	4,900	500/D
630	Compacted	2.8	37.0	0.0283	0.0025	1333	819	695	6,000	500/D

D : Packing in drum

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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