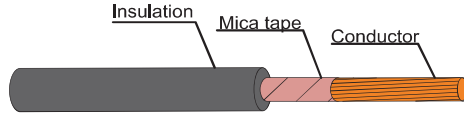


FS/LH-0.6/1KV-XLPE (C)



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

IEC 60502-1



CABLE STRUCTURE

Conductor : Non-Compacted and compacted round annealed copper
 Sizes 1.5 mm² up to 630 mm²

Fire barrier tape : Mica tape

Insulation : Cross-Linked polyethylene (XLPE) with Low smoke and Zero halogen

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

: IEC 60502-1, IEC 60228, BS 6387 (Cat.CWZ)
 : IEC 60332-1, IEC 60332-3-24 (Cat.C), IEC 60754-2,
 IEC 61034-2

APPLICATION

For fixed installation in electrical cabinet, conduit and wire way which provide flame retardant, low smoke and non toxic emission under fire.

B

Nominal cross sectional area (mm ²)	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 maximum (40 °C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
1.5	Non-Compacted	0.7	4.3	12.1	0.0100	31	30	1,000/D
2.5	Non-Compacted	0.8	4.8	7.41	0.0090	41	40	1,000/D
4	Non-Compacted	0.8	5.3	4.61	0.0077	54	60	1,000/D
6	Non-Compacted	0.8	5.9	3.08	0.0065	69	80	1,000/D
10	Compacted	1.0	6.6	1.83	0.0065	93	120	1,000/D
16	Compacted	1.0	7.6	1.15	0.0050	123	180	1,000/D
25	Compacted	1.2	9.2	0.727	0.0050	164	270	1,000/D
35	Compacted	1.2	10.5	0.524	0.0043	202	360	1,000/D
50	Compacted	1.4	12.0	0.387	0.0043	246	490	1,000/D
70	Compacted	1.4	13.5	0.268	0.0035	311	700	1,000/D
95	Compacted	1.6	16.0	0.193	0.0035	388	950	1,000/D
120	Compacted	1.6	17.5	0.153	0.0032	452	1,200	1,000/D
150	Compacted	1.8	19.0	0.124	0.0032	518	1,500	1,000/D
185	Compacted	2.0	22	0.0991	0.0032	601	1,850	1,000/D
240	Compacted	2.2	24	0.0754	0.0032	719	2,400	1,000/D
300	Compacted	2.4	27	0.0601	0.0030	833	3,000	1,000/D
400	Compacted	2.6	30	0.0470	0.0028	973	3,800	1,000/D
500	Compacted	2.8	34	0.0366	0.0028	1141	4,900	500/D
630	Compacted	2.8	37	0.0283	0.0025	1336	6,000	500/D

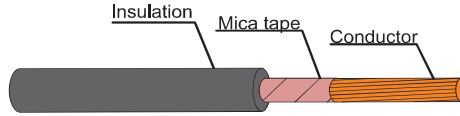
D : Packing in drum

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



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 IEC 61034-2

APPLICATION

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Nominal cross sectional area (mm ²)	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	15.4296
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	1.4664	0.4674	0.1468	1.4738
25	Compacted	0.9271	0.4630	0.1455	0.9384
35	Compacted	0.6683	0.4544	0.1427	0.6834
50	Compacted	0.4937	0.4430	0.1392	0.5129
70	Compacted	0.3420	0.4339	0.1363	0.3682
95	Compacted	0.2465	0.4343	0.1364	0.2817
120	Compacted	0.1956	0.4260	0.1338	0.2370
150	Compacted	0.1588	0.4261	0.1339	0.2077
185	Compacted	0.1272	0.4263	0.1339	0.1847
240	Compacted	0.0972	0.4225	0.1327	0.1645
300	Compacted	0.0780	0.4210	0.1323	0.1536
400	Compacted	0.0616	0.4192	0.1317	0.1454
500	Compacted	0.0488	0.4168	0.1309	0.1398
630	Compacted	0.0388	0.4122	0.1295	0.1352

B