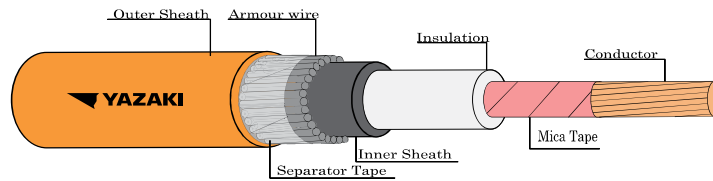


FS/FDLH-0.6/1KV-CE-AWA

0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED, WITH ALUMINIUM WIRE ARMORED FIRE RESISTANT FLAME RETARDANT, LOW SMOKE AND ZERO HALOGEN POWER CABLE



CABLE STRUCTURE

- Conductor** : Non-Compacted and compacted round annealed copper
- Fire barrier tape** : Mica tape
- Insulation** : Cross-Linked polyethylene (XLPE)

- Core identification**
Single-core : Natural (Translucent)

- Inner Sheath**: Black Low smoke and zero halogen flame retardant polyolefin (ST8)

- Aarmor** : Aluminium wires

- Outer Sheath** : Orange Low smoke and zero halogen flame retardant polyolefin (ST8)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 volts

- Rated voltage** : 600 Volts between Line to Earth
Rated voltage : 1,000 Volts between Line to Line

- Testing voltage** : 3,500 Volts

- Reference Standard**
Construction : IEC 60502-1
Circuit integrity : BS 6387 Category C,W,Z
Flame retardant : BS EN 60332-1-2
IEC 60332-3-22 Category A
IEC 60332-3-23 Category B
IEC 60332-3-24 Category C

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

APPLICATION

For installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

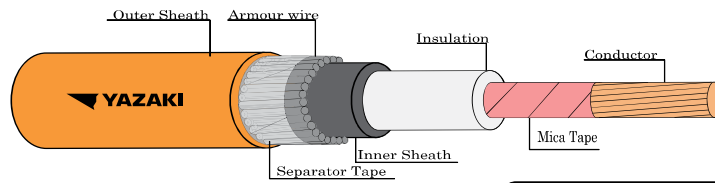
Number of core	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Dia. of inner sheath approx. (mm)	Dia. of aluminium wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air at 40°C maximum (A)			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
											Spaced	Touching	Trefoil			
1	1.5	Non-Compacted	0.7	1.2	7.0	1.25	1.8	13.5	12.1	2,500	36	30	29	32	200	500/D
	2.5	Non-Compacted	0.7	1.2	7.5	1.25	1.8	14.0	7.41	2,100	48	39	38	41	220	500/D
	4	Non-Compacted	0.7	1.2	8.0	1.25	1.8	14.5	4.61	1,700	62	51	50	53	250	500/D
	6	Non-Compacted	0.7	1.2	8.5	1.25	1.8	15.0	3.08	1,450	78	64	63	65	280	500/D
	10	Compacted	0.7	1.2	9.0	1.25	1.8	15.5	1.83	1,250	104	85	83	86	330	500/D
	16	Compacted	0.7	1.2	10.0	1.25	1.8	16.5	1.15	1,000	136	112	109	110	410	500/D
	25	Compacted	0.9	1.2	11.5	1.25	1.8	18.5	0.727	1,050	179	147	143	141	550	500/D
	35	Compacted	0.9	1.2	13.0	1.25	1.8	19.5	0.524	900	217	179	174	169	650	500/D
	50	Compacted	1.0	1.2	14.0	1.25	1.8	21.0	0.387	850	261	216	210	199	800	500/D
	70	Compacted	1.1	1.2	16.0	1.60	1.8	23.0	0.268	800	327	270	262	243	1,000	500/D
	95	Compacted	1.1	1.2	18.0	1.60	1.8	25.0	0.193	650	404	334	325	292	1,400	500/D
	120	Compacted	1.2	1.2	19.5	1.60	1.8	27.0	0.153	650	467	387	376	331	1,600	500/D
	150	Compacted	1.4	1.2	21.5	1.60	1.8	28.5	0.124	700	532	442	429	371	2,000	500/D
	185	Compacted	1.6	1.2	23.5	2.00	1.8	32.0	0.0991	700	617	515	499	421	2,500	500/D
	240	Compacted	1.7	1.2	26.0	2.00	1.9	35.0	0.0754	650	733	613	594	487	3,100	500/D
	300	Compacted	1.8	1.2	28.5	2.00	2.0	37.5	0.0601	600	844	707	684	549	3,700	500/D
400	Compacted	2.0	1.2	31.5	2.00	2.2	41.0	0.0470	600	979	822	794	622	4,700	500/D	

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

FS/FDLH-0.6/1KV-CE-AWA

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED, WITH ALUMINIUM WIRE ARMORED FIRE RESISTANT FLAME RETARDANT, LOW SMOKE AND ZERO HALOGEN POWER CABLE



CABLE STRUCTURE

- Conductor** : Non-Compacted and compacted round annealed copper
- Fire barrier tape** : Mica tape
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification**
Single-core : Natural (Translucent)
- Inner Sheath** : Black Low smoke and zero halogen flame retardant polyolefin (ST8)
- Armor** : Aluminium wires
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TECHNICAL DATA

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

APPLICATION

For installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.7969	0.6582	0.6120	0.2503	0.2068	0.1923	15.4307	15.4301	15.4299
	2.5	9.4485	9.4485	9.4485	0.7483	0.6097	0.5635	0.2351	0.1915	0.1770	9.4514	9.4504	9.4502
	4	5.8782	5.8782	5.8782	0.7056	0.5670	0.5208	0.2217	0.1781	0.1636	5.8824	5.8809	5.8805
	6	3.9273	3.9273	3.9273	0.6620	0.5234	0.4772	0.2080	0.1644	0.1499	3.9328	3.9308	3.9302
	10	2.3335	2.3335	2.3335	0.6263	0.4877	0.4415	0.1968	0.1532	0.1387	2.3418	2.3385	2.3376
	16	1.4664	1.4664	1.4664	0.5817	0.4431	0.3969	0.1827	0.1392	0.1247	1.4778	1.4730	1.4717
	25	0.9271	0.9271	0.9271	0.5313	0.3927	0.3465	0.1669	0.1234	0.1088	0.9420	0.9353	0.9335
	35	0.6683	0.6683	0.6684	0.5160	0.3773	0.3311	0.1621	0.1185	0.1040	0.6877	0.6788	0.6764
	50	0.4937	0.4937	0.4938	0.4943	0.3556	0.3094	0.1553	0.1117	0.0972	0.5175	0.5062	0.5033
	70	0.3420	0.3421	0.3422	0.4879	0.3492	0.3030	0.1533	0.1097	0.0952	0.3748	0.3593	0.3552
	95	0.2465	0.2467	0.2468	0.4744	0.3358	0.2895	0.1490	0.1055	0.0910	0.2880	0.2683	0.2630
	120	0.1956	0.1958	0.1960	0.4668	0.3282	0.2820	0.1467	0.1031	0.0886	0.2445	0.2213	0.2151
	150	0.1587	0.1590	0.1593	0.4633	0.3246	0.2784	0.1455	0.1020	0.0875	0.2154	0.1889	0.1817
	185	0.1271	0.1275	0.1278	0.4623	0.3236	0.2774	0.1452	0.1017	0.0871	0.1930	0.1631	0.1547
240	0.0972	0.0977	0.0981	0.4545	0.3159	0.2697	0.1428	0.0992	0.0847	0.1727	0.1392	0.1296	
300	0.0779	0.0786	0.0791	0.4501	0.3115	0.2653	0.1414	0.0979	0.0833	0.1615	0.1255	0.1149	
400	0.0616	0.0624	0.0631	0.4478	0.3092	0.2630	0.1407	0.0971	0.0826	0.1536	0.1155	0.1039	