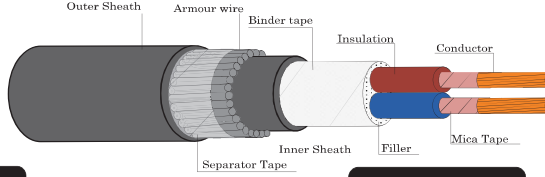


0.6/1 kV 90°C MICA TAPE CROSS-LINKED POLYETHYLENE INSULATED POLYOLEFIN SHEATHED, WITH GALVANIZED STEEL WIRE ARMORED FLAME RETARDANT, LOW SMOKE AND ZERO HALOGEN POWER CABLE

IEC 60502-1



CABLE STRUCTURE

TECHNICAL DATA

Conductor : Non-Compacted and compacted round annealed copper
Multi-core : Sizes 1.5 mm² up to 400 mm²

Fire barrier tape : Mica tape

Insulation : Cross-Linked polyethylene (XLPE)

Core identification
2-Cores : Blue, Brown

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

Armor : Galvanized steel wires

Sheath : Orange low smoke and zero halogen flame retardant polyolefin(ST8)

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
: 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 installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel 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)
2	1.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	13.0	12.1	2,500	30	35	550	500/D
	2.5	Non-Compacted	0.7	1.2	12.0	1.25	1.8	13.0	7.41	2,100	39	46	600	500/D
	4	Non-Compacted	0.7	1.2	13.0	1.25	1.8	20	4.61	1,700	51	59	700	500/D
	6	Non-Compacted	0.7	1.2	14.5	1.25	1.8	21	3.08	1,450	66	74	800	500/D
	10	Compacted	0.7	1.2	15.5	1.60	1.8	23	1.83	1,250	88	98	1000	500/D
	16	Compacted	0.7	1.2	17.5	1.60	1.8	25	1.15	1,000	116	126	1,200	500/D
	25	Compacted	0.9	1.2	20	1.60	1.8	27	0.727	1,050	154	162	1,500	500/D
	35	Compacted	0.9	1.2	22	2.00	1.9	31	0.524	900	188	194	2,000	500/D
	50	Compacted	1.0	1.2	25	2.00	2.0	34	0.387	850	228	230	2,500	500/D
	70	Compacted	1.1	1.2	29	2.00	2.1	38	0.268	800	285	281	3,100	500/D
	95	Compacted	1.1	1.2	32	2.00	2.3	42	0.193	650	350	336	3,800	500/D
	120	Compacted	1.2	1.3	36	2.50	2.4	47	0.153	650	404	381	5,000	500/D
	150	Compacted	1.4	1.3	40	2.50	2.6	51	0.124	700	458	426	6,000	500/D
	185	Compacted	1.6	1.4	44	2.50	2.7	56	0.0991	700	528	479	7,000	500/D
	240	Compacted	1.7	1.5	50	2.50	2.9	62	0.0754	650	622	552	8,500	500/D
	300	Compacted	1.8	1.6	55	2.50	3.1	67	0.0601	600	710	618	10,000	300/D
400	Compacted	2.0	1.7	61	3.15	3.4	76	0.0470	600	815	693	13,500	300/D	

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4465	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9273	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6684	0.2567	0.0807	0.6733
	50	0.4938	0.2435	0.0765	0.4997
	70	0.3423	0.2395	0.0752	0.3504
	95	0.2488	0.2331	0.0732	0.2575
	120	0.1960	0.2289	0.0719	0.2088
	150	0.1593	0.2302	0.0723	0.1749
	185	0.1278	0.2326	0.0731	0.1472
	240	0.0981	0.2281	0.0717	0.1215
	300	0.0791	0.2260	0.0710	0.1063
400	0.0630	0.2259	0.0710	0.0949	

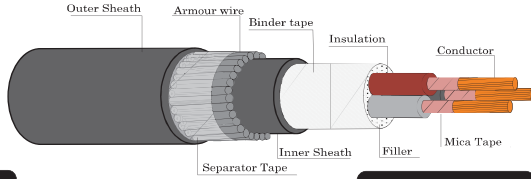
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum



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

IEC 60502-1



CABLE STRUCTURE

TECHNICAL DATA

Conductor : Non-Compacted and compacted round annealed copper
Multi-core : Sizes 1.5 mm² up to 400 mm²

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts

Fire barrier tape : Mica tape

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

Insulation : Cross-Linked polyethylene (XLPE)

Testing voltage : 3,500 Volts

Core identification

3 Cores : Brown, Black, Grey

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

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

Armor : Galvanized steel wires

Sheath : Orange low smoke and zero halogen flame retardant polyolefin(ST8)

APPLICATION

For installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

B

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel 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)
3	1.5	Non-Compacted	0.7	1.2	12.0	1.25	1.8	18.5	12.1	2,500	26	30	600	500/D
	2.5	Non-Compacted	0.7	1.2	13.0	1.25	1.8	19.5	7.41	2,100	34	39	650	500/D
	4	Non-Compacted	0.7	1.2	14.0	1.25	1.8	21	4.61	1,700	45	51	750	500/D
	6	Non-Compacted	0.7	1.2	15.5	1.60	1.8	23	3.08	1,450	57	63	1,000	500/D
	10	Compacted	0.7	1.2	16.5	1.60	1.8	24	1.83	1,250	76	83	1,200	500/D
	16	Compacted	0.7	1.2	19.0	1.60	1.8	26	1.15	1,000	100	107	1,400	500/D
	25	Compacted	0.9	1.2	22	2.00	1.9	30	0.727	1,050	132	137	2,000	500/D
	35	Compacted	0.9	1.2	24	2.00	2.0	32	0.524	900	162	164	2,500	500/D
	50	Compacted	1.0	1.2	27	2.00	2.1	36	0.387	850	196	194	3,000	500/D
	70	Compacted	1.1	1.2	31	2.00	2.2	40	0.268	800	246	236	3,800	500/D
	95	Compacted	1.1	1.2	35	2.00	2.4	44	0.193	650	301	282	4,800	500/D
	120	Compacted	1.2	1.3	39	2.50	2.5	49	0.153	650	348	320	6,500	500/D
	150	Compacted	1.4	1.4	42	2.50	2.7	54	0.124	700	397	356	7,500	500/D
	185	Compacted	1.6	1.5	48	2.50	2.8	59	0.0991	700	455	400	9,000	300/D
	240	Compacted	1.7	1.6	54	2.50	3.1	66	0.0754	650	535	459	11,000	300/D
	300	Compacted	1.8	1.7	59	2.50	3.2	72	0.0601	600	608	511	13,500	300/D
400	Compacted	2.0	1.8	66	3.15	3.5	81	0.0470	600	699	574	17,500	200/D	

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3248	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4668
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2289	0.0719	0.2091
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1283	0.2326	0.0731	0.1476
	240	0.0987	0.2281	0.0717	0.1219
	300	0.0798	0.2260	0.0710	0.1068
400	0.0639	0.2259	0.0710	0.0955	

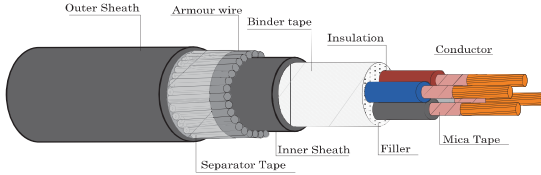
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

D : Packing in drum

F5/FDLH-0.6/1KV-CE-SWA

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

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-Compacted and compacted round annealed copper
Multi-core : Sizes 1.5 mm² up to 400 mm²
- Fire barrier tape** : Mica tape
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification**
4 Cores : Blue, Brown, Black, Grey
- Inner Sheath** : Black Low smoke and zero halogen flame retardant polyolefin(ST8)
- Armor** : Galvanized steel wires
- 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
: 1,000 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 installation into open tray, conduit, underground duct trench or direct burial in ground which provide flame retardant, low smoke and maintain circuit integrity in case of fire.

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel 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)
4	1.5	Non-Compacted	0.7	1.2	13.0	1.25	1.8	19.5	12.1	2,500	26	30	850	500/D
	2.5	Non-Compacted	0.7	1.2	14.5	1.25	1.8	21	7.41	2,100	34	39	750	500/D
	4	Non-Compacted	0.7	1.2	15.5	1.60	1.8	23	4.61	1,700	45	51	1,000	500/D
	6	Non-Compacted	0.7	1.2	17.0	1.60	1.8	24	3.08	1,450	57	63	1,100	500/D
	10	Compacted	0.7	1.2	18.5	1.60	1.8	25	1.83	1,250	76	83	1,400	500/D
	16	Compacted	0.7	1.2	21	1.60	1.8	28	1.15	1,000	100	107	1,700	500/D
	25	Compacted	0.9	1.2	24	2.00	2.0	32	0.727	1,050	132	137	2,400	500/D
	35	Compacted	0.9	1.2	26	2.00	2.1	35	0.524	900	162	164	3,000	500/D
	50	Compacted	1.0	1.2	30	2.00	2.2	39	0.387	850	196	194	3,700	500/D
	70	Compacted	1.1	1.2	34	2.00	2.3	43	0.268	800	246	236	4,700	500/D
	95	Compacted	1.1	1.3	39	2.50	2.5	49	0.193	650	301	282	6,500	500/D
	120	Compacted	1.2	1.4	43	2.50	2.7	54	0.153	650	348	320	8,000	500/D
	150	Compacted	1.4	1.5	48	2.50	2.8	59	0.124	700	397	356	9,500	300/D
	185	Compacted	1.6	1.6	53	2.50	3.0	66	0.0991	700	455	400	11,000	300/D
	240	Compacted	1.7	1.7	60	2.50	3.3	73	0.0754	650	535	459	14,000	300/D
	300	Compacted	1.8	1.8	66	3.15	3.5	81	0.0601	600	608	511	18,000	200/D
400	Compacted	2.0	2.0	74	3.15	3.8	89	0.0470	600	699	574	22,000	200/D	

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R	Inductance L	Reactance XL	Impedance Z
		(Ω/km)	(mH/km)	(Ω/km)	(Ω/km)
4	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4486	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2289	0.0719	0.2091
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1283	0.2326	0.0731	0.1476
	240	0.0987	0.2281	0.0717	0.1219
	300	0.0798	0.2260	0.0710	0.1068
400	0.0639	0.2259	0.0710	0.0955	

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