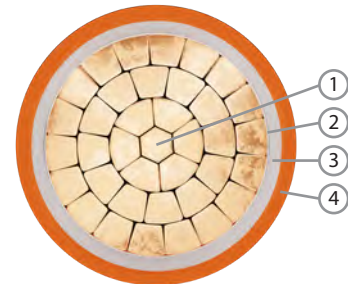
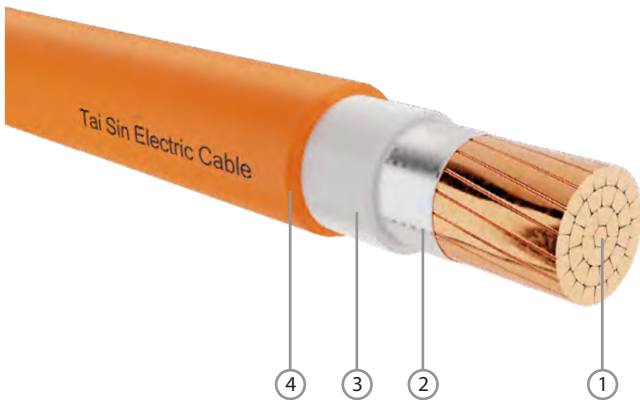


FRMI-ZM110

CU / MGT / XLEVA / LSZH (SINGLE CORE)

Mica Taped, XLEVA Mineral Insulated, XLEVA Low Smoke Zero Halogen Sheathed Cable, 600/1000V, IEC60502-1



Component
 1. Plain Annealed Copper Wire
 2. Mica Tape
 3. XLEVA LSZH Compound
 4. XLEVA LSZH Compound

CONSTRUCTION

Conductor:	Plain Annealed Copper, Class 2 Stranded Circular or Compacted
Fire Barrier:	Mica Tape (MGT)
Insulation:	XLEVA (E13) Mineral Insulated Low Smoke Zero Halogen (LSZH) Compound
Insulation Colour:	Natural
Outer Sheath:	XLEVA (EM4) Low Smoke Zero Halogen (LSZH) Compound
Outer Sheath Colour:	Orange or Others

REFERENCE STANDARDS

Design Specification:	IEC60502-1
Conductor:	IEC60228, BS EN60228
Fire Resistance:	BS6387 (C,W,Z), SS299 (C), IEC60331
Flame Retardancy:	IEC60332-3-22, BS EN60332-3-22
Low Smoke Zero Halogen:	IEC61034-2, BS EN61034-2 IEC60754-1, IEC60754-2 BS EN60754-1, BS EN60754-2

ELECTRICAL CHARACTERISTICS

Operating Voltage:	600/1000V
Operating Temperature:	-15°C to 110°C
Final Short Circuit Temperature:	250°C
Test Voltage:	3.5kV for 5 minutes

INSTALLATION REFERENCE

Min. Bending Radius (mm):	8 x cable overall diameter
Max. Pulling Tension (N/mm ²):	50

	Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approx Weight (kg/km)	Maximum dc Conductor Resistance at 20°C (Ω/km)	Unenclosed Current Carrying Capacity (Air 30°C)		Voltage Drop at 50Hz (mV/ A/ m)
							2 cables touching (A)	3 cables touching (A)	
SINGLE CORE	1 x 1.5	7 / 0.53	0.7	6.8	65	12.1	27	27	31.9
	1 x 2.5	7 / 0.67	0.7	7.3	78	7.41	39	39	17.4
	1 x 4	7 / 0.85	0.7	7.8	97	4.61	50	50	10.8
	1 x 6	7 / 1.04	0.7	8.4	121	3.08	63	63	7.23
	1 x 10	7 / 1.35	0.7	9.1	166	1.83	87	87	4.30
	1 x 16	7 / 1.70	0.7	10.1	230	1.15	114	114	2.71
	1 x 25	7 / 2.14	0.9	11.6	334	0.727	153	153	1.72
	1 x 35	7 / 2.52	0.9	12.6	434	0.524	188	188	1.25
	1 x 50	19 / 1.78	1.0	14.3	568	0.387	230	230	0.929
	1 x 70	19 / 2.14	1.1	16.4	792	0.268	291	291	0.657
	1 x 95	19 / 2.52	1.1	18.2	1053	0.193	363	363	0.491
	1 x 120	37 / 2.03	1.2	20.2	1315	0.153	422	422	0.403
	1 x 150	37 / 2.25	1.4	22.2	1606	0.124	486	485	0.344
	1 x 185	37 / 2.52	1.6	24.4	1986	0.0991	564	563	0.296
	1 x 240	61 / 2.25	1.7	27.3	2569	0.0754	674	673	0.252
	1 x 300	61 / 2.52	1.8	30.0	3186	0.0601	781	778	0.227
1 x 400	61 / 2.85	2.0	33.4	4036	0.0470	913	906	0.208	
1 x 500	61 / 3.20	2.2	37.0	5045	0.0366	1059	1050	0.195	
1 x 630	127 / 2.52	2.4	43.5	6529	0.0283	1226	1221	0.184	