

LV POWER, SINGLE CORE, UNARMoured FIRE RESISTANT CABLE AS PER IEC 60502-1 (CU/MICA/XLPE/LSZH)

APPLICATION

Suitable for indoor emergency power supply, process industries, low-voltage installations, lighting circuits, office spaces, and low-risk environments where mechanical protection is not critical. Ideal for use in conduits, trunking, and in locations protected from physical damage. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

CONSTRUCTION

Conductor:	Stranded (Class 2) Annealed Plain Copper Conductor to IEC 60228
Insulation:	MICA impregnated glass tape + Extruded Cross Linked Polyethylene (XLPE) rated 90°C
Insulation Color:	Black Other colors are available upon request.
Outer Sheath:	Extruded Low Smoke Zero Halogen (LSZH) Type ST-8 to IEC 60502-1 in Black color. Other colors are available upon request.
Marking Text on the Outer Sheath (Example):	CU/MICA/XLPE/LSZH (NO. OF CORES X CONDUCTOR SIZE) 600/1000V IEC 60502-1 IEC 60331 TEKAB YEAR OF MANUFACTURE MADE IN UAE LENGTH METER MARKING



TECHNICAL DATA

Operating Temperature:	During Normal Operation - 90°C During Short Circuit Condition - 250°C
Voltage Rating:	600/1000V
Voltage Withstand:	3500 V a.c. r.m.s. for 5 minutes
Halogen Acid Gas Emission:	0.5% (BS EN 60754-1)
Smoke Emission:	60% (BS EN 61034-2)
Flame Retardant Test:	IEC 60332-1-2
Fire Resistant Test:	IEC 60331

*Other special sheath materials are also available with Flame Retardant: - IEC 60332-3-24 (CAT C), IEC 60332-3-22 (CAT A), UV / Sunlight Resistant, Oil Resistant, Anti-Termite, Anti-Rodent.

SERIAL NO.	TEKAB CODE	NO. OF CORES X CONDUCTOR SIZE (NO. X Sq.mm.)	NO. OF STRANDS	NOMINAL INSULATION THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	MXZ1	1C X 1.5	7	0.7	1.4	6.5	75
2	MXZ1	1C X 2.5	7	0.7	1.4	7.0	85
3	MXZ1	1C X 4	7	0.7	1.4	7.5	100
4	MXZ1	1C X 6	7	0.7	1.4	8.0	125
5	MXZ1	1C X 10	7	0.7	1.4	9.0	175
6	MXZ1	1C X 16	7	0.7	1.4	10.0	250
7	MXZ1	1C X 25	7	0.9	1.4	11.5	350
8	MXZ1	1C X 35	7	0.9	1.4	13.0	450
9	MXZ1	1C X 50	19	1.0	1.4	14.5	575
10	MXZ1	1C X 70	19	1.1	1.4	16.5	825
11	MXZ1	1C X 95	19	1.1	1.5	18.5	1100
12	MXZ1	1C X 120	37	1.2	1.5	20.5	1350
13	MXZ1	1C X 150	37	1.4	1.6	22.5	1650
14	MXZ1	1C X 185	37	1.6	1.6	25.0	2050
15	MXZ1	1C X 240	37	1.7	1.7	28.0	2650
16	MXZ1	1C X 300	61	1.8	1.8	31.0	3250
17	MXZ1	1C X 400	61	2.0	1.9	34.5	4125
18	MXZ1	1C X 500	61	2.2	2.0	38.5	5175
19	MXZ1	1C X 630	91	2.4	2.2	43.0	6675

