

LV POWER, MULTI 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:	2C:- Red & Black 3C:- Red, Yellow & Blue 4C:- Red, Yellow, Blue & Black 5C:- Red, Yellow, Blue, Black & Green / Yellow Other colors are available upon request.
Laying Up:	Cores are assembled in concentric layers and laid up with a non-hygroscopic filler (if required), and the assembly is wrapped with FROH tape.
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)
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.

Circular Conductor:-

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	2C X 1.5	7	0.7	1.8	12.0	175
2	MXZ1	2C X 2.5	7	0.7	1.8	12.5	200
3	MXZ1	2C X 4	7	0.7	1.8	14.0	250
4	MXZ1	2C X 6	7	0.7	1.8	15.0	300
5	MXZ1	2C X 10	7	0.7	1.8	17.0	400
6	MXZ1	2C X 16	7	0.7	1.8	19.0	600
7	MXZ1	2C X 25	7	0.9	1.8	22.5	850
8	MXZ1	2C X 35	7	0.9	1.8	24.5	1100
9	MXZ1	2C X 50	19	1.0	1.8	27.5	1400
10	MXZ1	3C X 1.5	7	0.7	1.8	12.5	200
11	MXZ1	3C X 2.5	7	0.7	1.8	13.5	250
12	MXZ1	3C X 4	7	0.7	1.8	14.5	300
13	MXZ1	3C X 6	7	0.7	1.8	16.0	400
14	MXZ1	3C X 10	7	0.7	1.8	18.0	550
15	MXZ1	3C X 16	7	0.7	1.8	20.0	800
16	MXZ1	3C X 25	7	0.9	1.8	24.0	1150
17	MXZ1	3C X 35	7	0.9	1.8	26.5	1500
18	MXZ1	3C X 50	19	1.0	1.8	30.0	1950
19	MXZ1	4C X 1.5	7	0.7	1.8	13.5	250
20	MXZ1	4C X 2.5	7	0.7	1.8	14.5	300
21	MXZ1	4C X 4	7	0.7	1.8	15.5	375
22	MXZ1	4C X 6	7	0.7	1.8	17.0	500
23	MXZ1	4C X 10	7	0.7	1.8	19.5	675
24	MXZ1	4C X 16	7	0.7	1.8	22.0	1000
25	MXZ1	4C X 25	7	0.9	1.8	26.0	1475
26	MXZ1	4C X 35	7	0.9	1.8	29.0	1925
27	MXZ1	4C X 50	19	1.0	1.9	33.0	2500
28	MXZ1	5C X 1.5	7	0.7	1.8	14.5	300

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29	MXZ1	5C X 2.5	7	0.7	1.8	15.5	350
30	MXZ1	5C X 4	7	0.7	1.8	17.5	450
31	MXZ1	5C X 6	7	0.7	1.8	19.0	600
32	MXZ1	5C X 10	7	0.7	1.8	21.5	825
33	MXZ1	5C X 16	7	0.7	1.8	24.0	1150
34	MXZ1	5C X 25	7	0.9	1.8	29.0	1750
35	MXZ1	5C X 35	7	0.9	1.8	32.0	2275

