

LV CONTROL, 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 & above:- Black core with number printed 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	3C X 1.5	7	0.7	1.8	12.5	200
3	MXZ1	4C X 1.5	7	0.7	1.8	13.5	250
4	MXZ1	5C X 1.5	7	0.7	1.8	14.5	300
5	MXZ1	6C X 1.5	7	0.7	1.8	15.0	300
6	MXZ1	7C X 1.5	7	0.7	1.8	15.0	325
7	MXZ1	8C X 1.5	7	0.7	1.8	15.5	350
8	MXZ1	10C X 1.5	7	0.7	1.8	17.0	425
9	MXZ1	12C X 1.5	7	0.7	1.8	18.5	475
10	MXZ1	14C X 1.5	7	0.7	1.8	19.5	550
11	MXZ1	15C X 1.5	7	0.7	1.8	20.0	575
12	MXZ1	16C X 1.5	7	0.7	1.8	20.5	625
13	MXZ1	18C X 1.5	7	0.7	1.8	21.5	675
14	MXZ1	19C X 1.5	7	0.7	1.8	22.0	700
15	MXZ1	20C X 1.5	7	0.7	1.8	22.5	725
16	MXZ1	22C X 1.5	7	0.7	1.8	23.5	800
17	MXZ1	24C X 1.5	7	0.7	1.8	24.0	850
18	MXZ1	25C X 1.5	7	0.7	1.8	24.5	875
19	MXZ1	26C X 1.5	7	0.7	1.8	25.0	900
20	MXZ1	30C X 1.5	7	0.7	1.8	26.5	1025
21	MXZ1	32C X 1.5	7	0.7	1.8	27.5	1100
22	MXZ1	35C X 1.5	7	0.7	1.8	28.5	1175
23	MXZ1	36C X 1.5	7	0.7	1.8	28.5	1225
24	MXZ1	40C X 1.5	7	0.7	1.8	30.0	1325
25	MXZ1	50C X 1.5	7	0.7	1.8	33.0	1600
26	MXZ1	61C X 1.5	7	0.7	1.9	36.5	1950
27	MXZ1	2C X 2.5	7	0.7	1.8	12.5	200
28	MXZ1	3C X 2.5	7	0.7	1.8	13.5	250
29	MXZ1	4C X 2.5	7	0.7	1.8	14.5	300
30	MXZ1	5C X 2.5	7	0.7	1.8	15.5	350

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)
31	MXZ1	6C X 2.5	7	0.7	1.8	16.0	375
32	MXZ1	7C X 2.5	7	0.7	1.8	16.0	400
33	MXZ1	8C X 2.5	7	0.7	1.8	17.0	450
34	MXZ1	10C X 2.5	7	0.7	1.8	18.5	550
35	MXZ1	12C X 2.5	7	0.7	1.8	20.0	625
36	MXZ1	14C X 2.5	7	0.7	1.8	21.5	700
37	MXZ1	15C X 2.5	7	0.7	1.8	22.0	750
38	MXZ1	16C X 2.5	7	0.7	1.8	22.5	800
39	MXZ1	18C X 2.5	7	0.7	1.8	23.5	900
40	MXZ1	19C X 2.5	7	0.7	1.8	24.0	925
41	MXZ1	20C X 2.5	7	0.7	1.8	24.5	950
42	MXZ1	22C X 2.5	7	0.7	1.8	25.5	1050
43	MXZ1	24C X 2.5	7	0.7	1.8	26.5	1100
44	MXZ1	25C X 2.5	7	0.7	1.8	27.0	1150
45	MXZ1	26C X 2.5	7	0.7	1.8	27.5	1200
46	MXZ1	30C X 2.5	7	0.7	1.8	29.5	1375
47	MXZ1	32C X 2.5	7	0.7	1.8	30.5	1475
48	MXZ1	35C X 2.5	7	0.7	1.8	31.5	1575
49	MXZ1	36C X 2.5	7	0.7	1.8	31.5	1625
50	MXZ1	40C X 2.5	7	0.7	1.8	33.0	1750
51	MXZ1	50C X 2.5	7	0.7	1.9	36.5	2175
52	MXZ1	61C X 2.5	7	0.7	2.0	40.5	2625