

LV CONTROL, MULTI CORE, ARMoured FIRE RESISTANT CABLE AS PER IEC 60502-1 (CU/MICA/XLPE/LSZH/SWA/LSZH)

APPLICATION

These types of cables are used for emergency power supply, process industries, industrial machinery, building wiring, underground and outdoor installations, and infrastructure projects, providing robust mechanical protection and durability. 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-hygrosopic filler (if required), and the assembly is wrapped with FROH tape.
Inner Sheath:	Extruded layer of Low Smoke Zero Halogen (LSZH) in Black colour. Other colors are available upon request.
Armouring:	A single layer of round galvanized steel wire armour is applied over the bedding.
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/SWA/LSZH (NO. OF CORES X CONDUCTOR SIZE) 600/1000V IEC 60502-1 IEC 60331 IEC 60332-1-2 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 60332-3-24 (CAT C), IEC 60332-1-2
Fire Resistant Test:	IEC 60331

*Other special sheath materials are also available with Flame Retardant:- 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 INNER SHEATH THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	MXZ1Z2Z1	2C X 1.5	7	0.7	1.0	0.9	1.8	15.5	450
2	MXZ1Z2Z1	3C X 1.5	7	0.7	1.0	0.9	1.8	16.5	500
3	MXZ1Z2Z1	4C X 1.5	7	0.7	1.0	0.9	1.8	17.0	575
4	MXZ1Z2Z1	5C X 1.5	7	0.7	1.0	0.9	1.8	18.0	625
5	MXZ1Z2Z1	6C X 1.5	7	0.7	1.0	0.9	1.8	18.5	675
6	MXZ1Z2Z1	7C X 1.5	7	0.7	1.0	0.9	1.8	18.5	700
7	MXZ1Z2Z1	8C X 1.5	7	0.7	1.0	1.25	1.8	20.0	850
8	MXZ1Z2Z1	10C X 1.5	7	0.7	1.0	1.25	1.8	21.5	950
9	MXZ1Z2Z1	12C X 1.5	7	0.7	1.0	1.25	1.8	22.5	1050
10	MXZ1Z2Z1	14C X 1.5	7	0.7	1.0	1.25	1.8	24.0	1150
11	MXZ1Z2Z1	15C X 1.5	7	0.7	1.0	1.25	1.8	24.5	1200
12	MXZ1Z2Z1	16C X 1.5	7	0.7	1.0	1.25	1.8	25.0	1250
13	MXZ1Z2Z1	18C X 1.5	7	0.7	1.0	1.25	1.8	26.0	1350
14	MXZ1Z2Z1	19C X 1.5	7	0.7	1.0	1.25	1.8	26.5	1400
15	MXZ1Z2Z1	20C X 1.5	7	0.7	1.0	1.6	1.8	27.5	1600
16	MXZ1Z2Z1	22C X 1.5	7	0.7	1.0	1.6	1.8	28.5	1700
17	MXZ1Z2Z1	24C X 1.5	7	0.7	1.0	1.6	1.8	29.5	1800
18	MXZ1Z2Z1	25C X 1.5	7	0.7	1.0	1.6	1.8	29.5	1850
19	MXZ1Z2Z1	26C X 1.5	7	0.7	1.0	1.6	1.8	30.0	1875
20	MXZ1Z2Z1	30C X 1.5	7	0.7	1.0	1.6	1.8	31.5	2075
21	MXZ1Z2Z1	32C X 1.5	7	0.7	1.0	1.6	1.8	32.5	2175
22	MXZ1Z2Z1	35C X 1.5	7	0.7	1.0	1.6	1.8	33.5	2300
23	MXZ1Z2Z1	36C X 1.5	7	0.7	1.0	1.6	1.8	34.0	2350
24	MXZ1Z2Z1	40C X 1.5	7	0.7	1.0	1.6	1.9	35.5	2525
25	MXZ1Z2Z1	50C X 1.5	7	0.7	1.0	1.6	2.0	38.5	2950
26	MXZ1Z2Z1	61C X 1.5	7	0.7	1.2	2.0	2.1	43.0	3725
27	MXZ1Z2Z1	2C X 2.5	7	0.7	1.0	0.9	1.8	16.5	500

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28	MXZ1Z2Z1	3C X 2.5	7	0.7	1.0	0.9	1.8	17.0	575
29	MXZ1Z2Z1	4C X 2.5	7	0.7	1.0	0.9	1.8	18.0	650
30	MXZ1Z2Z1	5C X 2.5	7	0.7	1.0	0.9	1.8	19.0	725
31	MXZ1Z2Z1	6C X 2.5	7	0.7	1.0	1.25	1.8	20.5	875
32	MXZ1Z2Z1	7C X 2.5	7	0.7	1.0	1.25	1.8	20.5	900
33	MXZ1Z2Z1	8C X 2.5	7	0.7	1.0	1.25	1.8	21.5	975
34	MXZ1Z2Z1	10C X 2.5	7	0.7	1.0	1.25	1.8	23.0	1100
35	MXZ1Z2Z1	12C X 2.5	7	0.7	1.0	1.25	1.8	24.0	1250
36	MXZ1Z2Z1	14C X 2.5	7	0.7	1.0	1.25	1.8	25.5	1375
37	MXZ1Z2Z1	15C X 2.5	7	0.7	1.0	1.6	1.8	27.0	1600
38	MXZ1Z2Z1	16C X 2.5	7	0.7	1.0	1.6	1.8	27.5	1675
39	MXZ1Z2Z1	18C X 2.5	7	0.7	1.0	1.6	1.8	28.5	1800
40	MXZ1Z2Z1	19C X 2.5	7	0.7	1.0	1.6	1.8	29.0	1850
41	MXZ1Z2Z1	20C X 2.5	7	0.7	1.0	1.6	1.8	29.5	1900
42	MXZ1Z2Z1	22C X 2.5	7	0.7	1.0	1.6	1.8	30.5	2025
43	MXZ1Z2Z1	24C X 2.5	7	0.7	1.0	1.6	1.8	31.5	2150
44	MXZ1Z2Z1	25C X 2.5	7	0.7	1.0	1.6	1.8	32.0	2225
45	MXZ1Z2Z1	26C X 2.5	7	0.7	1.0	1.6	1.8	32.5	2275
46	MXZ1Z2Z1	30C X 2.5	7	0.7	1.0	1.6	1.9	34.5	2525
47	MXZ1Z2Z1	32C X 2.5	7	0.7	1.0	1.6	1.9	35.5	2650
48	MXZ1Z2Z1	35C X 2.5	7	0.7	1.0	1.6	1.9	36.5	2800
49	MXZ1Z2Z1	36C X 2.5	7	0.7	1.0	1.6	1.9	37.0	2875
50	MXZ1Z2Z1	40C X 2.5	7	0.7	1.0	1.6	2.0	38.5	3100
51	MXZ1Z2Z1	50C X 2.5	7	0.7	1.2	2.0	2.1	43.0	3925
52	MXZ1Z2Z1	61C X 2.5	7	0.7	1.2	2.0	2.2	47.0	4600