

LV POWER, 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:- 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.
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 inner sheath.
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	2C X 2.5	7	0.7	1.0	0.9	1.8	16.5	500
3	MXZ1Z2Z1	2C X 4	7	0.7	1.0	0.9	1.8	17.5	575
4	MXZ1Z2Z1	2C X 6	7	0.7	1.0	0.9	1.8	18.8	675
5	MXZ1Z2Z1	2C X 10	7	0.7	1.0	1.25	1.8	21.5	950
6	MXZ1Z2Z1	2C X 16	7	0.7	1.0	1.25	1.8	23.5	1200
7	MXZ1Z2Z1	2C X 25	7	0.9	1.0	1.6	1.8	27.5	1725
8	MXZ1Z2Z1	2C X 35	7	0.9	1.0	1.6	1.8	30.0	2050
9	MXZ1Z2Z1	2C X 50	19	1.0	1.0	1.6	1.8	33.0	2500
10	MXZ1Z2Z1	3C X 1.5	7	0.7	1.0	0.9	1.8	16.5	500
11	MXZ1Z2Z1	3C X 2.5	7	0.7	1.0	0.9	1.8	17.0	575
12	MXZ1Z2Z1	3C X 4	7	0.7	1.0	0.9	1.8	18.5	675
13	MXZ1Z2Z1	3C X 6	7	0.7	1.0	0.9	1.8	19.5	775
14	MXZ1Z2Z1	3C X 10	7	0.7	1.0	1.25	1.8	22.5	1100
15	MXZ1Z2Z1	3C X 16	7	0.7	1.0	1.25	1.8	24.5	1425
16	MXZ1Z2Z1	3C X 25	7	0.9	1.0	1.6	1.8	29.0	2075
17	MXZ1Z2Z1	3C X 35	7	0.9	1.0	1.6	1.8	31.0	2500
18	MXZ1Z2Z1	3C X 50	19	1.0	1.0	1.6	1.9	34.5	3100
19	MXZ1Z2Z1	4C X 1.5	7	0.7	1.0	0.9	1.8	17.0	575
20	MXZ1Z2Z1	4C X 2.5	7	0.7	1.0	0.9	1.8	18.0	650
21	MXZ1Z2Z1	4C X 4	7	0.7	1.0	0.9	1.8	19.5	750
22	MXZ1Z2Z1	4C X 6	7	0.7	1.0	1.25	1.8	21.5	1025
23	MXZ1Z2Z1	4C X 10	7	0.7	1.0	1.25	1.8	23.5	1275
24	MXZ1Z2Z1	4C X 16	7	0.7	1.0	1.6	1.8	27.0	1850
25	MXZ1Z2Z1	4C X 25	7	0.9	1.0	1.6	1.8	31.0	2475
26	MXZ1Z2Z1	4C X 35	7	0.9	1.0	1.6	1.9	34.0	3050
27	MXZ1Z2Z1	4C X 50	19	1.0	1.0	1.6	2.0	37.5	3775

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28	MXZ1Z2Z1	5C X 1.5	7	0.7	1.0	0.9	1.8	18.0	625
29	MXZ1Z2Z1	5C X 2.5	7	0.7	1.0	0.9	1.8	19.0	725
30	MXZ1Z2Z1	5C X 4	7	0.7	1.0	1.25	1.8	21.5	975
31	MXZ1Z2Z1	5C X 6	7	0.7	1.0	1.25	1.8	23.0	1175
32	MXZ1Z2Z1	5C X 10	7	0.7	1.0	1.25	1.8	25.5	1475
33	MXZ1Z2Z1	5C X 16	7	0.7	1.0	1.6	1.8	29.0	2075
34	MXZ1Z2Z1	5C X 25	7	0.9	1.0	1.6	1.8	33.5	2825
35	MXZ1Z2Z1	5C X 35	7	0.9	1.0	1.6	1.9	37.0	3475

