

LV POWER, SINGLE CORE, ARMoured FIRE RESISTANT CABLE AS PER IEC 60502-1 (CU/MICA/XLPE/LSZH/AWA/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:	Black Other colors are available upon request.
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 Aluminum 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/AWA/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 60332-3-24 (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.

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	MXZ1Y2Z1	1C X 1.5	7	0.7	1.0	0.9	1.4	10.5	175
2	MXZ1Y2Z1	1C X 2.5	7	0.7	1.0	0.9	1.4	11.0	185
3	MXZ1Y2Z1	1C X 4.0	7	0.7	1.0	0.9	1.4	11.5	215
4	MXZ1Y2Z1	1C X 6.0	7	0.7	1.0	0.9	1.4	12.0	250
5	MXZ1Y2Z1	1C X 10	7	0.7	1.0	0.9	1.4	13.0	300
6	MXZ1Y2Z1	1C X 16	7	0.7	1.0	0.9	1.4	14.0	375
7	MXZ1Y2Z1	1C X 25	7	0.9	1.0	0.9	1.4	15.5	525
8	MXZ1Y2Z1	1C X35	7	0.9	1.0	0.9	1.4	17.0	650
9	MXZ1Y2Z1	1C X 50	19	1.0	1.0	1.25	1.5	19.5	850
10	MXZ1Y2Z1	1C X 70	19	1.1	1.0	1.25	1.5	21.5	1100
11	MXZ1Y2Z1	1C X 95	19	1.1	1.0	1.25	1.6	23.5	1400
12	MXZ1Y2Z1	1C X 120	37	1.2	1.0	1.6	1.7	26.0	1775
13	MXZ1Y2Z1	1C X 150	37	1.4	1.0	1.6	1.7	28.0	2100
14	MXZ1Y2Z1	1C X 185	37	1.6	1.0	1.6	1.8	30.5	2550
15	MXZ1Y2Z1	1C X 240	37	1.7	1.0	1.6	1.9	33.5	3200
16	MXZ1Y2Z1	1C X 300	61	1.8	1.0	1.6	1.9	36.5	3875
17	MXZ1Y2Z1	1C X 400	61	2.0	1.2	2.0	2.1	41.0	4975
18	MXZ1Y2Z1	1C X 500	61	2.2	1.2	2.0	2.2	45.0	6075
19	MXZ1Y2Z1	1C X 630	91	2.4	1.2	2.0	2.3	49.5	7725