

LV POWER, SINGLE CORE, ARMoured FIRE RESISTANT CABLE AS PER IEC 60502-1 (CU/MICA/XLPE/PVC/AWA/PVC)

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.

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 Polyvinyl Chloride (PVC) consistent with the operating temperature of the cable 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 Polyvinyl Chloride (PVC) Type ST-2 to IEC 60502-1 in Black color. Other colors are available upon request.
Marking Text on the Outer Sheath (Example):	CU/MICA/XLPE/PVC/AWA/PVC (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
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), Low Smoke, 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	MXVY2V	1C X 1.5	7	0.7	1.0	0.9	1.4	10.5	175
2	MXVY2V	1C X 2.5	7	0.7	1.0	0.9	1.4	11.0	185
3	MXVY2V	1C X 4.0	7	0.7	1.0	0.9	1.4	11.5	215
4	MXVY2V	1C X 6.0	7	0.7	1.0	0.9	1.4	12.0	250
5	MXVY2V	1C X 10	7	0.7	1.0	0.9	1.4	13.0	300
6	MXVY2V	1C X 16	7	0.7	1.0	0.9	1.4	14.0	375
7	MXVY2V	1C X 25	7	0.9	1.0	0.9	1.4	15.5	525
8	MXVY2V	1C X35	7	0.9	1.0	0.9	1.4	17.0	650
9	MXVY2V	1C X 50	19	1.0	1.0	1.25	1.5	19.5	850
10	MXVY2V	1C X 70	19	1.1	1.0	1.25	1.5	21.5	1100
11	MXVY2V	1C X 95	19	1.1	1.0	1.25	1.6	23.5	1400
12	MXVY2V	1C X 120	37	1.2	1.0	1.6	1.7	26.0	1775
13	MXVY2V	1C X 150	37	1.4	1.0	1.6	1.7	28.0	2100
14	MXVY2V	1C X 185	37	1.6	1.0	1.6	1.8	30.5	2550
15	MXVY2V	1C X 240	37	1.7	1.0	1.6	1.9	33.5	3200
16	MXVY2V	1C X 300	61	1.8	1.0	1.6	1.9	36.5	3875
17	MXVY2V	1C X 400	61	2.0	1.2	2.0	2.1	41.0	4975
18	MXVY2V	1C X 500	61	2.2	1.2	2.0	2.2	45.0	6075
19	MXVY2V	1C X 630	91	2.4	1.2	2.0	2.3	49.5	7725