LV CONTROL, MULTI CORE, ARMOURED FIRE RESISTANT CABLE AS PER IEC 60502-1 (CU/MICA/XLPE/PVC/SWA/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:
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.

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 galvanized steel wire armour is applied over the bedding.

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/SWA/PVC (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

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.

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	MXVZ2V	2C X 1.5	7	0.7	1.0	0.9	1.8	15.5	450
2	MXVZ2V	3C X 1.5	7	0.7	1.0	0.9	1.8	16.5	500
3	MXVZ2V	4C X 1.5	7	0.7	1.0	0.9	1.8	17.0	575
4	MXVZ2V	5C X 1.5	7	0.7	1.0	0.9	1.8	18.0	625
5	MXVZ2V	6C X 1.5	7	0.7	1.0	0.9	1.8	18.5	675
6	MXVZ2V	7C X 1.5	7	0.7	1.0	0.9	1.8	18.5	700
7	MXVZ2V	8C X 1.5	7	0.7	1.0	1.25	1.8	20.0	850
8	MXVZ2V	10C X 1.5	7	0.7	1.0	1.25	1.8	21.5	950
9	MXVZ2V	12C X 1.5	7	0.7	1.0	1.25	1.8	22.5	1050
10	MXVZ2V	14C X 1.5	7	0.7	1.0	1.25	1.8	24.0	1150
11	MXVZ2V	15C X 1.5	7	0.7	1.0	1.25	1.8	24.5	1200
12	MXVZ2V	16C X 1.5	7	0.7	1.0	1.25	1.8	25.0	1250
13	MXVZ2V	18C X 1.5	7	0.7	1.0	1.25	1.8	26.0	1350
14	MXVZ2V	19C X 1.5	7	0.7	1.0	1.25	1.8	26.5	1400
15	MXVZ2V	20C X 1.5	7	0.7	1.0	1.6	1.8	27.5	1600
16	MXVZ2V	22C X 1.5	7	0.7	1.0	1.6	1.8	28.5	1700
17	MXVZ2V	24C X 1.5	7	0.7	1.0	1.6	1.8	29.5	1800
18	MXVZ2V	25C X 1.5	7	0.7	1.0	1.6	1.8	29.5	1850
19	MXVZ2V	26C X 1.5	7	0.7	1.0	1.6	1.8	30.0	1875
20	MXVZ2V	30C X 1.5	7	0.7	1.0	1.6	1.8	31.5	2075
21	MXVZ2V	32C X 1.5	7	0.7	1.0	1.6	1.8	32.5	2175
22	MXVZ2V	35C X 1.5	7	0.7	1.0	1.6	1.8	33.5	2300
23	MXVZ2V	36C X 1.5	7	0.7	1.0	1.6	1.8	34.0	2350
24	MXVZ2V	40C X 1.5	7	0.7	1.0	1.6	1.9	35.5	2525
25	MXVZ2V	50C X 1.5	7	0.7	1.0	1.6	2.0	38.5	2950
26	MXVZ2V	61C X 1.5	7	0.7	1.2	2.0	2.1	43.0	3725

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)
27	MXVZ2V	2C X 2.5	7	0.7	1.0	0.9	1.8	16.5	500
28	MXVZ2V	3C X 2.5	7	0.7	1.0	0.9	1.8	17.0	575
29	MXVZ2V	4C X 2.5	7	0.7	1.0	0.9	1.8	18.0	650
30	MXVZ2V	5C X 2.5	7	0.7	1.0	0.9	1.8	19.0	725
31	MXVZ2V	6C X 2.5	7	0.7	1.0	1.25	1.8	20.5	875
32	MXVZ2V	7C X 2.5	7	0.7	1.0	1.25	1.8	20.5	900
33	MXVZ2V	8C X 2.5	7	0.7	1.0	1.25	1.8	21.5	975
34	MXVZ2V	10C X 2.5	7	0.7	1.0	1.25	1.8	23.0	1100
35	MXVZ2V	12C X 2.5	7	0.7	1.0	1.25	1.8	24.0	1250
36	MXVZ2V	14C X 2.5	7	0.7	1.0	1.25	1.8	25.5	1375
37	MXVZ2V	15C X 2.5	7	0.7	1.0	1.6	1.8	27.0	1600
38	MXVZ2V	16C X 2.5	7	0.7	1.0	1.6	1.8	27.5	1675
39	MXVZ2V	18C X 2.5	7	0.7	1.0	1.6	1.8	28.5	1800
40	MXVZ2V	19C X 2.5	7	0.7	1.0	1.6	1.8	29.0	1850
41	MXVZ2V	20C X 2.5	7	0.7	1.0	1.6	1.8	29.5	1900
42	MXVZ2V	22C X 2.5	7	0.7	1.0	1.6	1.8	30.5	2025
43	MXVZ2V	24C X 2.5	7	0.7	1.0	1.6	1.8	31.5	2150
44	MXVZ2V	25C X 2.5	7	0.7	1.0	1.6	1.8	32.0	2225
45	MXVZ2V	26C X 2.5	7	0.7	1.0	1.6	1.8	32.5	2275
46	MXVZ2V	30C X 2.5	7	0.7	1.0	1.6	1.9	34.5	2525
47	MXVZ2V	32C X 2.5	7	0.7	1.0	1.6	1.9	35.5	2650
48	MXVZ2V	35C X 2.5	7	0.7	1.0	1.6	1.9	36.5	2800
49	MXVZ2V	36C X 2.5	7	0.7	1.0	1.6	1.9	37.0	2875
50	MXVZ2V	40C X 2.5	7	0.7	1.0	1.6	2.0	38.5	3100
51	MXVZ2V	50C X 2.5	7	0.7	1.2	2.0	2.1	43.0	3925
52	MXVZ2V	61C X 2.5	7	0.7	1.2	2.0	2.2	47.0	4600