

LV CONTROL, MULTI CORE, SCREENED, ARMoured CABLE AS PER IEC 60502-1 (CU/XLPE/PVC/CUT/PVC/SWA/PVC)

APPLICATION

These types of cables are used for Motor Control, power distribution, low-voltage installations, lighting circuits, 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:	Cross linked polyethylene (XLPE)
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 binder 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.
Metallic Screen:	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. Copper tape with 75µm, 100µm are also available on request.
Separation Sheath:	Extruded Polyvinyl Chloride (PVC) Type ST-2 to IEC 60502-1 in Black color. Other colors are available upon request.
Armouring:	A single layer of round galvanized steel wire armour is applied over the separation 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/XLPE/PVC/CUT/PVC/SWA/PVC (NO. OF CORES X CONDUCTOR SIZE) 600/1000V IEC 60502-1 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

*Other special sheath materials are also available with Flame Retardant:- IEC 60332-1-2, IEC 60332-3-22 (CAT A), IEC 60332-3-24 (CAT C), Low Smoke, UV / Sunlight Resistant, Oil Resistant, Anti-Termite, Anti-Rodent.

Circular Conductor:-

SR. 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)	METALLIC SCREEN THICKNESS (mm)	NOMINAL SEPARATION SHEATH THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OVER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XVC7VZ2V	2C X 1.5	7	0.7	1.0	0.05	1.2	0.9	1.8	16.0	515
2	XVC7VZ2V	3C X 1.5	7	0.7	1.0	0.05	1.2	0.9	1.8	16.5	550
3	XVC7VZ2V	4C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	18.0	700
4	XVC7VZ2V	5C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	775
5	XVC7VZ2V	6C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.5	835
6	XVC7VZ2V	7C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.5	850
7	XVC7VZ2V	8C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	20.5	900
8	XVC7VZ2V	10C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	21.5	1000
9	XVC7VZ2V	12C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	23.5	1235
10	XVC7VZ2V	14C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	24.5	1325
11	XVC7VZ2V	15C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	24.8	1375
12	XVC7VZ2V	16C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	25.0	1425
13	XVC7VZ2V	18C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.0	1515
14	XVC7VZ2V	19C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.5	1540
15	XVC7VZ2V	20C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	27.0	1585
16	XVC7VZ2V	22C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	27.5	1675
17	XVC7VZ2V	24C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.2	1750
18	XVC7VZ2V	25C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.5	1800
19	XVC7VZ2V	26C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	29.0	1825
20	XVC7VZ2V	30C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	30.5	2000
21	XVC7VZ2V	32C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.0	2085
22	XVC7VZ2V	35C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	32.0	2200
23	XVC7VZ2V	36C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	32.2	2250
24	XVC7VZ2V	40C X 1.5	7	0.7	1.0	0.05	1.2	1.6	2.0	33.5	2400
25	XVC7VZ2V	50C X 1.5	7	0.7	1.0	0.05	1.2	2.0	2.1	37.0	3000



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26	XVC7VZ2V	61C X 1.5	7	0.7	1.2	0.05	1.2	2.0	2.2	40.0	3400
27	XVC7VZ2V	2C X 2.5	7	0.7	1.0	0.05	1.2	0.9	1.8	17.0	575
28	XVC7VZ2V	3C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	18.0	725
29	XVC7VZ2V	4C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	800
30	XVC7VZ2V	5C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	20.0	875
31	XVC7VZ2V	6C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	21.0	950
32	XVC7VZ2V	7C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	21.0	975
33	XVC7VZ2V	8C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	22.0	1050
34	XVC7VZ2V	10C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	24.0	1300
35	XVC7VZ2V	12C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	25.0	1435
36	XVC7VZ2V	14C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.0	1550
37	XVC7VZ2V	15C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.5	1625
38	XVC7VZ2V	16C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	27.0	1685
39	XVC7VZ2V	18C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.0	1800
40	XVC7VZ2V	19C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.5	1850
41	XVC7VZ2V	20C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	29.0	1900
42	XVC7VZ2V	22C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	30.0	2025
43	XVC7VZ2V	24C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.0	2135
44	XVC7VZ2V	25C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.0	2200
45	XVC7VZ2V	26C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.5	2250
46	XVC7VZ2V	30C X 2.5	7	0.7	1.0	0.05	1.2	1.6	2.0	33.2	2475
47	XVC7VZ2V	32C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.0	34.5	2775
48	XVC7VZ2V	35C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.1	36.0	2950
49	XVC7VZ2V	36C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.1	36.0	3015
50	XVC7VZ2V	40C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.1	37.5	3200
51	XVC7VZ2V	50C X 2.5	7	0.7	1.2	0.05	1.2	2.0	2.2	40.5	3725
52	XVC7VZ2V	61C X 2.5	7	0.7	1.2	0.05	1.2	2.0	2.3	43.5	4275