

LV POWER, MULTI CORE, SCREENED, UNARMoured CABLE AS PER IEC 60502-1 (CU/XLPE/PVC/CUT/PVC)

APPLICATION

Suitable for indoor Motor Control, power distribution, low-voltage installations, lighting circuits, and low-risk environments where mechanical protection is not critical. Ideal for use in conduits, trunking, and in locations protected from physical damage.

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:- 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 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.
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 (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:-

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)	METALLIC SCREEN THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XVC7V	2C X 1.5	7	0.7	1.0	0.05	1.8	12.0	200
2	XVC7V	2C X 2.5	7	0.7	1.0	0.05	1.8	12.5	225
3	XVC7V	2C X 4	7	0.7	1.0	0.05	1.8	14.0	275
4	XVC7V	2C X 6	7	0.7	1.0	0.05	1.8	15.0	350
5	XVC7V	2C X 10	7	0.7	1.0	0.05	1.8	16.8	455
6	XVC7V	2C X 16	7	0.7	1.0	0.05	1.8	19.0	650
7	XVC7V	2C X 25	7	0.9	1.0	0.05	1.8	22.5	925
8	XVC7V	2C X 35	7	0.9	1.0	0.05	1.8	24.5	1175
9	XVC7V	2C X 50	19	1.0	1.0	0.05	1.8	27.5	1500
10	XVC7V	3C X 1.5	7	0.7	1.0	0.05	1.8	12.5	225
11	XVC7V	3C X 2.5	7	0.7	1.0	0.05	1.8	13.2	275
12	XVC7V	3C X 4	7	0.7	1.0	0.05	1.8	14.5	350
13	XVC7V	3C X 6	7	0.7	1.0	0.05	1.8	15.7	425
14	XVC7V	3C X 10	7	0.7	1.0	0.05	1.8	17.5	575
15	XVC7V	3C X 16	7	0.7	1.0	0.05	1.8	20.0	825
16	XVC7V	3C X 25	7	0.9	1.0	0.05	1.8	23.5	1215
17	XVC7V	3C X 35	7	0.9	1.0	0.05	1.8	26.0	1550
18	XVC7V	3C X 50	19	1.0	1.0	0.05	1.9	29.5	2025
19	XVC7V	4C X 1.5	7	0.7	1.0	0.05	1.8	13.0	260
20	XVC7V	4C X 2.5	7	0.7	1.0	0.05	1.8	14.0	325
21	XVC7V	4C X 4	7	0.7	1.0	0.05	1.8	15.5	400
22	XVC7V	4C X 6	7	0.7	1.0	0.05	1.8	16.8	515
23	XVC7V	4C X 10	7	0.7	1.0	0.05	1.8	19.0	715
24	XVC7V	4C X 16	7	0.7	1.0	0.05	1.8	21.5	1025
25	XVC7V	4C X 25	7	0.9	1.0	0.05	1.8	25.5	1515
26	XVC7V	4C X 35	7	0.9	1.0	0.05	1.8	28.5	1975

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27	XVC7V	4C X 50	19	1.0	1.0	0.05	1.9	32.5	2585
28	XVC7V	5C X 1.5	7	0.7	1.0	0.05	1.8	14.0	300
29	XVC7V	5C X 2.5	7	0.7	1.0	0.05	1.8	15.0	375
30	XVC7V	5C X 4	7	0.7	1.0	0.05	1.8	16.5	475
31	XVC7V	5C X 6	7	0.7	1.0	0.05	1.8	18.0	600
32	XVC7V	5C X 10	7	0.7	1.0	0.05	1.8	20.5	850
33	XVC7V	5C X 16	7	0.7	1.0	0.05	1.8	23.5	1200
34	XVC7V	5C X 25	7	0.9	1.0	0.05	1.8	28.0	1775
35	XVC7V	5C X 35	7	0.9	1.0	0.05	1.8	32.0	2375

