

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

APPLICATION

Suitable for indoor 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:	Extruded Cross Linked Polyethylene (XLPE) rated 90°C
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.
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 (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 60332-3-24 (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 OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XV	2C X 1.5	7	0.7	1.8	9.8	125
2	XV	2C X 2.5	7	0.7	1.8	10.7	155
3	XV	2C X 4	7	0.7	1.8	11.8	195
4	XV	2C X 6	7	0.7	1.8	13.0	250

Circular Conductor:-

SERIAL NO.	TEKAB CODE	NO. OF CORES X CONDUCTOR SIZE (NO. X Sq.mm.)	NO. OF STRANDS	NOMINAL INSULATION THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
5	XV	2C X 10	7	0.7	1.8	14.8	350
6	XV	2C X 16	7	0.7	1.8	16.8	525
7	XV	2C X 25	7	0.9	1.8	20.3	775
8	XV	2C X 35	7	0.9	1.8	22.5	1000
9	XV	2C X 50	19	1.0	1.8	25.8	1320
10	XV	3C X 1.5	7	0.7	1.8	10.3	150
11	XV	3C X 2.5	7	0.7	1.8	11.2	185
12	XV	3C X 4	7	0.7	1.8	12.5	250
13	XV	3C X 6	7	0.7	1.8	13.7	325
14	XV	3C X 10	7	0.7	1.8	15.7	475
15	XV	3C X 16	7	0.7	1.8	17.8	700
16	XV	3C X 25	7	0.9	1.8	21.5	1050
17	XV	3C X 35	7	0.9	1.8	24.0	1375
18	XV	3C X 50	19	1.0	1.8	27.3	1800
19	XV	4C X 1.5	7	0.7	1.8	10.9	180
20	XV	4C X 2.5	7	0.7	1.8	12.0	225
21	XV	4C X 4	7	0.7	1.8	13.2	300
22	XV	4C X 6	7	0.7	1.8	14.7	400
23	XV	4C X 10	7	0.7	1.8	16.8	580
24	XV	4C X 16	7	0.7	1.8	19.5	880
25	XV	4C X 25	7	0.9	1.8	23.5	1350
26	XV	4C X 35	7	0.9	1.8	26.3	1775
27	XV	4C X 50	19	1.0	1.9	30.2	2350
28	XV	5C X 1.5	7	0.7	1.8	12.0	210
29	XV	5C X 2.5	7	0.7	1.8	13.0	275
30	XV	5C X 4	7	0.7	1.8	14.5	375
31	XV	5C X 6	7	0.7	1.8	16.2	500
32	XV	5C X 10	7	0.7	1.8	18.5	725

Circular Conductor:-

SERIAL NO.	TEKAB CODE	NO. OF CORES X CONDUCTOR SIZE (NO. X Sq.mm.)	NO. OF STRANDS	NOMINAL INSULATION THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
33	XV	5C X 16	7	0.7	1.8	21.5	1050
34	XV	5C X 25	7	0.9	1.8	26.0	1580
35	XV	5C X 35	7	0.9	1.8	29.2	2100

Shaped Conductor:-

SERIAL NO.	TEKAB CODE	NO. OF CORES X CONDUCTOR SIZE (NO. X Sq.mm.)	NO. OF STRANDS	NOMINAL INSULATION THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XV	3C X 25	7	0.9	1.8	18.0	850
2	XV	3C X 35	7	0.9	1.8	19.5	1125
3	XV	3C X 50	19	1.0	1.8	22.5	1525
4	XV	3C X 70	19	1.1	1.9	26.0	2150
5	XV	3C X 95	19	1.1	2.0	29.0	2850
6	XV	3C X 120	19	1.2	2.1	32.0	3575
7	XV	3C X 150	19	1.4	2.3	36.0	4425
8	XV	3C X 185	37	1.6	2.4	39.5	5450
9	XV	3C X 240	37	1.7	2.6	44.5	7100
10	XV	3C X 300	37	1.8	2.8	49.0	8990
11	XV	3C X 400	61	2.0	3.0	56.0	11350
12	XV	4C X 25	7	0.9	1.8	20.5	1125
13	XV	4C X 35	7	0.9	1.8	23.0	1500
14	XV	4C X 50	19	1.0	1.9	27.0	2050
15	XV	4C X 70	19	1.1	2.0	31.0	2850
16	XV	4C X 95	19	1.1	2.1	34.5	3775
17	XV	4C X 120	19	1.2	2.3	38.5	4780
18	XV	4C X 150	19	1.4	2.4	43.0	5900
19	XV	4C X 185	37	1.6	2.6	48.0	7300
20	XV	4C X 240	37	1.7	2.8	53.5	9500
21	XV	4C X 300	37	1.8	3.0	59.0	11975
22	XV	4C X 400	61	2.0	3.3	67.5	15200