

LV POWER, MULTI CORE, UNARMoured CABLE AS PER IEC 60502-1 (CU/PVC/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 Polyvinyl Chloride (PVC) 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/PVC/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 - 160°C ($\leq 300\text{mm}^2$) and 160°C ($> 300\text{mm}^2$)
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), 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	V2V2	2C X 1.5	7	0.8	1.8	10.2	135
2	V2V2	2C X 2.5	7	0.8	1.8	11.0	170
3	V2V2	2C X 4	7	1.0	1.8	13.0	230
4	V2V2	2C X 6	7	1.0	1.8	14.0	290

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	V2V2	2C X 10	7	1.0	1.8	16.0	400
6	V2V2	2C X 16	7	1.0	1.8	18.0	585
7	V2V2	2C X 25	7	1.2	1.8	21.5	850
8	V2V2	2C X 35	7	1.2	1.8	23.8	1100
9	V2V2	2C X 50	19	1.4	1.8	27.2	1425
10	V2V2	3C X 1.5	7	0.8	1.8	10.5	175
11	V2V2	3C X 2.5	7	0.8	1.8	11.5	210
12	V2V2	3C X 4	7	1.0	1.8	13.5	300
13	V2V2	3C X 6	7	1.0	1.8	14.8	375
14	V2V2	3C X 10	7	1.0	1.8	16.8	525
15	V2V2	3C X 16	7	1.0	1.8	19.0	775
16	V2V2	3C X 25	7	1.2	1.8	22.8	1150
17	V2V2	3C X 35	7	1.2	1.8	25.2	1500
18	V2V2	3C X 50	19	1.4	1.8	29.0	1975
19	V2V2	4C X 1.5	7	0.8	1.8	11.5	200
20	V2V2	4C X 2.5	7	0.8	1.8	12.5	260
21	V2V2	4C X 4	7	1.0	1.8	14.8	375
22	V2V2	4C X 6	7	1.0	1.8	16.2	475
23	V2V2	4C X 10	7	1.0	1.8	18.4	675
24	V2V2	4C X 16	7	1.0	1.8	21.0	1000
25	V2V2	4C X 25	7	1.2	1.8	25.0	1500
26	V2V2	4C X 35	7	1.2	1.8	27.8	1925
27	V2V2	4C X 50	19	1.4	1.9	32.0	2550
28	V2V2	5C X 1.5	7	0.8	1.8	12.4	250
29	V2V2	5C X 2.5	7	0.8	1.8	13.5	310
30	V2V2	5C X 4	7	1.0	1.8	16.0	450
31	V2V2	5C X 6	7	1.0	1.8	17.8	575

Circular Conductor:-

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32	V2V2	5C X 10	7	1.0	1.8	20.2	825
33	V2V2	5C X 16	7	1.0	1.8	23.0	1175
34	V2V2	5C X 25	7	1.2	1.8	27.7	1750
35	V2V2	5C X 35	7	1.2	1.9	31.0	2300

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	V2V2	3C X 25	7	1.2	1.8	19.5	950
2	V2V2	3C X 35	7	1.2	1.8	21.5	1250
3	V2V2	3C X 50	19	1.4	1.8	24.5	1685
4	V2V2	3C X 70	19	1.4	2.0	27.5	2320
5	V2V2	3C X 95	19	1.6	2.1	31.5	3100
6	V2V2	3C X 120	19	1.6	2.2	34.2	3850
7	V2V2	3C X 150	19	1.8	2.3	38.0	4725
8	V2V2	3C X 185	37	2.0	2.5	42.0	5800
9	V2V2	3C X 240	37	2.2	2.7	47.0	7575
10	V2V2	3C X 300	37	2.4	2.8	52.0	9550
11	V2V2	3C X 400	61	2.6	3.1	59.0	12100
12	V2V2	4C X 25	7	1.2	1.8	22.5	1250
13	V2V2	4C X 35	7	1.2	1.8	25.0	1660
14	V2V2	4C X 50	19	1.4	1.9	28.5	2250
15	V2V2	4C X 70	19	1.4	2.1	32.5	3100
16	V2V2	4C X 95	19	1.6	2.2	37.5	4150
17	V2V2	4C X 120	19	1.6	2.3	40.6	5150
18	V2V2	4C X 150	19	1.8	2.5	45.5	6350
19	V2V2	4C X 185	37	2.0	2.6	50.0	7800
20	V2V2	4C X 240	37	2.2	2.9	56.5	10200
21	V2V2	4C X 300	37	2.4	3.1	62.5	12800
22	V2V2	4C X 400	61	2.6	3.4	71.0	16200