

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

APPLICATION

These types of cables are used for power distribution, 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:	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.
Armouring:	A single layer of round galvanized steel wire armour is applied over the inner 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/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:-

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	XVZ2V	2C X 1.5	7	0.7	1.0	0.9	1.8	13.5	360
2	XVZ2V	2C X 2.5	7	0.7	1.0	0.9	1.8	14.5	425
3	XVZ2V	2C X 4	7	0.7	1.0	0.9	1.8	15.5	475
4	XVZ2V	2C X 6	7	0.7	1.0	0.9	1.8	16.8	575
5	XVZ2V	2C X 10	7	0.7	1.0	1.25	1.8	19.5	825
6	XVZ2V	2C X 16	7	0.7	1.0	1.25	1.8	21.5	1050
7	XVZ2V	2C X 25	7	0.9	1.0	1.6	1.8	25.5	1575
8	XVZ2V	2C X 35	7	0.9	1.0	1.6	1.8	27.8	1900
9	XVZ2V	2C X 50	19	1.0	1.0	1.6	1.8	31.0	2325
10	XVZ2V	3C X 1.5	7	0.7	1.0	0.9	1.8	14.0	400
11	XVZ2V	3C X 2.5	7	0.7	1.0	0.9	1.8	15.0	475
12	XVZ2V	3C X 4	7	0.7	1.0	0.9	1.8	16.2	550
13	XVZ2V	3C X 6	7	0.7	1.0	0.9	1.8	17.5	650
14	XVZ2V	3C X 10	7	0.7	1.0	1.25	1.8	20.0	950
15	XVZ2V	3C X 16	7	0.7	1.0	1.25	1.8	22.5	1275
16	XVZ2V	3C X 25	7	0.9	1.0	1.6	1.8	26.8	1900
17	XVZ2V	3C X 35	7	0.9	1.0	1.6	1.8	29.5	2325
18	XVZ2V	3C X 50	19	1.0	1.0	1.6	1.9	33.0	2900
19	XVZ2V	4C X 1.5	7	0.7	1.0	0.9	1.8	15.0	450
20	XVZ2V	4C X 2.5	7	0.7	1.0	0.9	1.8	15.8	525
21	XVZ2V	4C X 4	7	0.7	1.0	0.9	1.8	17.0	625
22	XVZ2V	4C X 6	7	0.7	1.0	1.25	1.8	19.5	875
23	XVZ2V	4C X 10	7	0.7	1.0	1.25	1.8	21.5	1125
24	XVZ2V	4C X 16	7	0.7	1.0	1.6	1.8	24.8	1650
25	XVZ2V	4C X 25	7	0.9	1.0	1.6	1.8	28.8	2275
26	XVZ2V	4C X 35	7	0.9	1.0	1.6	1.9	31.8	2825

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)
27	XVZ2V	4C X 50	19	1.0	1.0	1.6	2.0	35.8	3535
28	XVZ2V	5C X 1.5	7	0.7	1.0	0.9	1.8	15.8	500
29	XVZ2V	5C X 2.5	7	0.7	1.0	0.9	1.8	16.8	600
30	XVZ2V	5C X 4	7	0.7	1.0	1.25	1.8	19.0	825
31	XVZ2V	5C X 6	7	0.7	1.0	1.25	1.8	20.5	1000
32	XVZ2V	5C X 10	7	0.7	1.0	1.25	1.8	23.0	1300
33	XVZ2V	5C X 16	7	0.7	1.0	1.6	1.8	26.8	1875
34	XVZ2V	5C X 25	7	0.9	1.0	1.6	1.8	31.5	2600
35	XVZ2V	5C X 35	7	0.9	1.0	1.6	1.9	34.5	3275

Shaped 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	XVZ2V	3C X 25	7	0.9	1.0	1.6	1.8	23.0	1475
2	XVZ2V	3C X 35	7	0.9	1.0	1.6	1.8	25.0	1825
3	XVZ2V	3C X 50	19	1.0	1.0	1.6	1.9	28.0	2325
4	XVZ2V	3C X 70	19	1.1	1.2	2.0	2.0	32.5	3300
5	XVZ2V	3C X 95	19	1.1	1.2	2.0	2.2	36.0	4125
6	XVZ2V	3C X 120	19	1.2	1.2	2.0	2.3	39.0	5000
7	XVZ2V	3C X 150	19	1.4	1.4	2.5	2.5	44.5	6450
8	XVZ2V	3C X 185	37	1.6	1.4	2.5	2.6	48.0	7600
9	XVZ2V	3C X 240	37	1.7	1.6	2.5	2.8	53.5	9575
10	XVZ2V	3C X 300	37	1.8	1.6	2.5	3.0	58.0	11700

Shaped 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)
11	XVZ2V	3C X 400	61	2.0	1.6	2.5	3.2	64.5	14400
12	XVZ2V	4C X 25	7	0.9	1.0	1.6	1.8	26.0	1825
13	XVZ2V	4C X 35	7	0.9	1.0	1.6	1.9	28.5	2300
14	XVZ2V	4C X 50	19	1.0	1.0	1.6	2.0	32.0	2975
15	XVZ2V	4C X 70	19	1.1	1.2	2.0	2.2	38.0	4200
16	XVZ2V	4C X 95	19	1.1	1.2	2.0	2.3	41.5	5325
17	XVZ2V	4C X 120	19	1.2	1.4	2.5	2.5	47.0	6900
18	XVZ2V	4C X 150	19	1.4	1.4	2.5	2.6	51.5	8225
19	XVZ2V	4C X 185	37	1.6	1.4	2.5	2.8	56.0	9875
20	XVZ2V	4C X 240	37	1.7	1.6	2.5	3.0	62.5	12500
21	XVZ2V	4C X 300	37	1.8	1.6	2.5	3.2	68.0	15300
22	XVZ2V	4C X 400	61	2.0	1.8	3.15	3.5	78.0	19750