

LV POWER, SINGLE CORE, ARMoured CABLE AS PER IEC 60502-1 (CU/PVC/PVC/AWA/PVC)

APPLICATION

These types of cables are used for electrical distribution, control circuits, industrial power supply, HVAC systems, instrumentation, automotive wiring, telecommunications, and underground installations, offering durability, electrical safety, and protection against mechanical damage.

CONSTRUCTION

Conductor:	Stranded (Class 2) Annealed Plain Copper Conductor to IEC 60228
Insulation:	Extruded Polyvinyl Chloride (PVC) rated 90°C
Insulation Color:	Black Other colors are available upon request.
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 Aluminum 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/PVC/PVC/AWA/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 (≤300mm ²) and 160°C (>300mm 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.

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	V2VY2V	1C X 1.5	7	0.8	1.0	0.9	1.4	10.0	150
2	V2VY2V	1C X 2.5	7	0.8	1.0	0.9	1.4	10.5	175
3	V2VY2V	1C X 4.0	7	1.0	1.0	0.9	1.4	11.2	210
4	V2VY2V	1C X 6.0	7	1.0	1.0	0.9	1.4	12.0	250
5	V2VY2V	1C X 10	7	1.0	1.0	0.9	1.4	12.8	310
6	V2VY2V	1C X 16	7	1.0	1.0	0.9	1.4	14.0	400
7	V2VY2V	1C X 25	7	1.2	1.0	0.9	1.4	15.5	525
8	V2VY2V	1C X35	7	1.2	1.0	0.9	1.4	16.7	650
9	V2VY2V	1C X 50	19	1.4	1.0	1.25	1.5	19.5	875
10	V2VY2V	1C X 70	19	1.4	1.0	1.25	1.5	21.0	1125
11	V2VY2V	1C X 95	19	1.6	1.0	1.6	1.6	24.5	1525
12	V2VY2V	1C X 120	37	1.6	1.0	1.6	1.7	26.3	1815
13	V2VY2V	1C X 150	37	1.8	1.0	1.6	1.7	28.2	2150
14	V2VY2V	1C X 185	37	2.0	1.0	1.6	1.8	30.8	2625
15	V2VY2V	1C X 240	37	2.2	1.0	1.6	1.9	34.0	3325
16	V2VY2V	1C X 300	61	2.4	1.0	2.0	2.0	37.8	4125
17	V2VY2V	1C X 400	61	2.6	1.2	2.0	2.1	41.8	5150
18	V2VY2V	1C X 500	61	2.8	1.2	2.0	2.2	45.5	6300
19	V2VY2V	1C X 630	91	2.8	1.2	2.0	2.4	50.0	7950