LV POWER, MULTI CORE, LEAD SHEATHED, ARMOURED CABLE AS PER IEC 60502-1 (CU/XLPE/PVC/LS/PVC/SWA/PVC)

APPLICATION

These types of cables are used for oil & gas sector, power distribution, industrial use, renewable energy, 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.
Lead Sheath:	Extruded Lead Alloy sheath is applied over inner sheath.
Separation Sheath:	Extruded Polyvinyl Chloride (PVC) Type ST-2 to IEC 60502-1 in Black color. Other colors are available upon request.
Armouring:	A single layer of round galvanized steel wire armour is applied over the separation 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/LS/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:-

SR. 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 LEAD SHEATH THICKNESS (mm)	NOMINAL SEPARATION SHEATH THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XVLVZ2V	2C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	18.5	1100
2	XVLVZ2V	2C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	19.5	1200
3	XVLVZ2V	2C X 4	7	0.7	1.0	1.2	1.0	1.25	1.8	20.5	1350
4	XVLVZ2V	2C X 6	7	0.7	1.0	1.2	1.0	1.25	1.8	21.5	1500
5	XVLVZ2V	2C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	24.5	1900
6	XVLVZ2V	2C X 16	7	0.7	1.0	1.2	1.0	1.6	1.8	26.5	2275
7	XVLVZ2V	2C X 25	7	0.9	1.0	1.2	1.0	1.6	1.8	30.0	2850
8	XVLVZ2V	2C X 35	7	0.9	1.0	1.2	1.0	1.6	1.9	32.5	3300
9	XVLVZ2V	2C X 50	19	1.0	1.0	1.3	1.0	2.0	2.0	36.5	4275
10	XVLVZ2V	3C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	19.0	1175
11	XVLVZ2V	3C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	20.0	1300
12	XVLVZ2V	3C X 4	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1450
13	XVLVZ2V	3C X 6	7	0.7	1.0	1.2	1.0	1.25	1.8	22.5	1650
14	XVLVZ2V	3C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	25.0	2100
15	XVLVZ2V	3C X 16	7	0.7	1.0	1.2	1.0	1.6	1.8	27.5	2550
16	XVLVZ2V	3C X 25	7	0.9	1.0	1.2	1.0	1.6	1.9	31.5	3275
17	XVLVZ2V	3C X 35	7	0.9	1.0	1.3	1.0	1.6	1.9	34.0	3950
18	XVLVZ2V	3C X 50	19	1.0	1.0	1.4	1.0	2.0	2.1	38.5	5100
19	XVLVZ2V	4C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	20.0	1275
20	XVLVZ2V	4C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1400
21	XVLVZ2V	4C X 4	7	0.7	1.0	1.2	1.0	1.25	1.8	22.0	1600
22	XVLVZ2V	4C X 6	7	0.7	1.0	1.2	1.0	1.6	1.8	24.5	1950
23	XVLVZ2V	4C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	26.5	2350
24	XVLVZ2V	4C X 16	7	0.7	1.0	1.2	1.0	1.6	1.8	29.0	2875
25	XVLVZ2V	4C X 25	7	0.9	1.0	1.3	1.0	1.6	1.9	33.5	3850
26	XVLVZ2V	4C X 35	7	0.9	1.0	1.3	1.0	2.0	2.0	37.0	4800
27	XVLVZ2V	4C X 50	19	1.0	1.2	1.4	1.0	2.0	2.2	42.0	6000

SR. 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 LEAD SHEATH THICKNESS (mm)	NOMINAL SEPARATION SHEATH THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
28	XVLVZ2V	5C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1375
29	XVLVZ2V	5C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	22.0	1550
30	XVLVZ2V	5C X 4	7	0.7	1.0	1.2	1.0	1.6	1.8	24.0	1900
31	XVLVZ2V	5C X 6	7	0.7	1.0	1.2	1.0	1.6	1.8	25.5	2175
32	XVLVZ2V	5C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	28.0	2625
33	XVLVZ2V	5C X 16	7	0.7	1.0	1.2	1.0	1.6	1.9	31.0	3250
34	XVLVZ2V	5C X 25	7	0.9	1.0	1.3	1.0	2.0	2.0	37.0	4600
35	XVLVZ2V	5C X 35	7	0.9	1.0	1.4	1.0	2.0	2.1	40.5	5600