

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

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. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

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 Low Smoke Zero Halogen (LSZH) in Black colour. Other colors are available upon request.
Lead Sheath:	Extruded Lead Alloy sheath is applied over inner sheath.
Separation Sheath:	Extruded layer of Low Smoke Zero Halogen (LSZH) in Black colour. 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 Low Smoke Zero Halogen (LSZH) Type ST-8 to IEC 60502-1 in Black color. Other colors are available upon request.
Marking Text on the Outer Sheath (Example):	CU/XLPE/LSZH/LS/LSZH/SWA/LSZH (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
Halogen Acid Gas Emission:	0.5% (BS EN 60754-1)
Smoke Emission:	60% (BS EN 61034-2)
Flame Retardant Test:	IEC 60332-3-24 (CAT C), IEC 60332-1-2

*Other special sheath materials are also available with Flame Retardant: - IEC 60332-3-22 (CAT A),
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	XZ1LZ1Z2Z1	2C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	18.5	1100
2	XZ1LZ1Z2Z1	2C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	19.5	1200
3	XZ1LZ1Z2Z1	2C X 4	7	0.7	1.0	1.2	1.0	1.25	1.8	20.5	1350
4	XZ1LZ1Z2Z1	2C X 6	7	0.7	1.0	1.2	1.0	1.25	1.8	21.5	1500
5	XZ1LZ1Z2Z1	2C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	24.5	1900
6	XZ1LZ1Z2Z1	2C X 16	7	0.7	1.0	1.2	1.0	1.6	1.8	26.5	2275
7	XZ1LZ1Z2Z1	2C X 25	7	0.9	1.0	1.2	1.0	1.6	1.8	30.0	2850
8	XZ1LZ1Z2Z1	2C X 35	7	0.9	1.0	1.2	1.0	1.6	1.9	32.5	3300
9	XZ1LZ1Z2Z1	2C X 50	19	1.0	1.0	1.3	1.0	2.0	2.0	36.5	4275
10	XZ1LZ1Z2Z1	3C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	19.0	1175
11	XZ1LZ1Z2Z1	3C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	20.0	1300
12	XZ1LZ1Z2Z1	3C X 4	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1450
13	XZ1LZ1Z2Z1	3C X 6	7	0.7	1.0	1.2	1.0	1.25	1.8	22.5	1650
14	XZ1LZ1Z2Z1	3C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	25.0	2100
15	XZ1LZ1Z2Z1	3C X 16	7	0.7	1.0	1.2	1.0	1.6	1.8	27.5	2550
16	XZ1LZ1Z2Z1	3C X 25	7	0.9	1.0	1.2	1.0	1.6	1.9	31.5	3275
17	XZ1LZ1Z2Z1	3C X 35	7	0.9	1.0	1.3	1.0	1.6	1.9	34.0	3950
18	XZ1LZ1Z2Z1	3C X 50	19	1.0	1.0	1.4	1.0	2.0	2.1	38.5	5100
19	XZ1LZ1Z2Z1	4C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	20.0	1275
20	XZ1LZ1Z2Z1	4C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1400
21	XZ1LZ1Z2Z1	4C X 4	7	0.7	1.0	1.2	1.0	1.25	1.8	22.0	1600
22	XZ1LZ1Z2Z1	4C X 6	7	0.7	1.0	1.2	1.0	1.6	1.8	24.5	1950
23	XZ1LZ1Z2Z1	4C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	26.5	2350
24	XZ1LZ1Z2Z1	4C X 16	7	0.7	1.0	1.2	1.0	1.6	1.8	29.0	2875
25	XZ1LZ1Z2Z1	4C X 25	7	0.9	1.0	1.3	1.0	1.6	1.9	33.5	3850

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26	XZ1LZ1Z2Z1	4C X 35	7	0.9	1.0	1.3	1.0	2.0	2.0	37.0	4800
27	XZ1LZ1Z2Z1	4C X 50	19	1.0	1.2	1.4	1.0	2.0	2.2	42.0	6000
28	XZ1LZ1Z2Z1	5C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1375
29	XZ1LZ1Z2Z1	5C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	22.0	1550
30	XZ1LZ1Z2Z1	5C X 4	7	0.7	1.0	1.2	1.0	1.6	1.8	24.0	1900
31	XZ1LZ1Z2Z1	5C X 6	7	0.7	1.0	1.2	1.0	1.6	1.8	25.5	2175
32	XZ1LZ1Z2Z1	5C X 10	7	0.7	1.0	1.2	1.0	1.6	1.8	28.0	2625
33	XZ1LZ1Z2Z1	5C X 16	7	0.7	1.0	1.2	1.0	1.6	1.9	31.0	3250
34	XZ1LZ1Z2Z1	5C X 25	7	0.9	1.0	1.3	1.0	2.0	2.0	37.0	4600
35	XZ1LZ1Z2Z1	5C X 35	7	0.9	1.0	1.4	1.0	2.0	2.1	40.5	5600

