

LV CONTROL, 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, signal & power transmission for machinery, control & monitoring of electrical systems, 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 & above:- Black core with number printed 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	3C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	19.0	1175
3	XZ1LZ1Z2Z1	4C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	20.0	1275
4	XZ1LZ1Z2Z1	5C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1375
5	XZ1LZ1Z2Z1	6C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.5	1500
6	XZ1LZ1Z2Z1	7C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.5	1525
7	XZ1LZ1Z2Z1	8C X 1.5	7	0.7	1.0	1.2	1.0	1.25	1.8	22.5	1575
8	XZ1LZ1Z2Z1	10C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	24.0	1875
9	XZ1LZ1Z2Z1	12C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	25.0	2025
10	XZ1LZ1Z2Z1	14C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	26.0	2150
11	XZ1LZ1Z2Z1	15C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	26.5	2225
12	XZ1LZ1Z2Z1	16C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	27.0	2300
13	XZ1LZ1Z2Z1	18C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	28.0	2425
14	XZ1LZ1Z2Z1	19C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	28.0	2475
15	XZ1LZ1Z2Z1	20C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	28.5	2550
16	XZ1LZ1Z2Z1	22C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.8	29.5	2675
17	XZ1LZ1Z2Z1	24C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.9	30.5	2800
18	XZ1LZ1Z2Z1	25C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.9	30.5	2850
19	XZ1LZ1Z2Z1	26C X 1.5	7	0.7	1.0	1.2	1.0	1.6	1.9	31.0	2900
20	XZ1LZ1Z2Z1	30C X 1.5	7	0.7	1.0	1.3	1.0	1.6	1.9	32.5	3225
21	XZ1LZ1Z2Z1	32C X 1.5	7	0.7	1.0	1.3	1.0	1.6	2.0	33.5	3350
22	XZ1LZ1Z2Z1	35C X 1.5	7	0.7	1.0	1.3	1.0	2.0	2.0	35.0	3725
23	XZ1LZ1Z2Z1	36C X 1.5	7	0.7	1.0	1.3	1.0	2.0	2.0	35.0	3775
24	XZ1LZ1Z2Z1	40C X 1.5	7	0.7	1.0	1.3	1.0	2.0	2.0	36.5	3975
25	XZ1LZ1Z2Z1	50C X 1.5	7	0.7	1.0	1.4	1.0	2.0	2.2	39.5	4650



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)
26	XZ1LZ1Z2Z1	61C X 1.5	7	0.7	1.2	1.5	1.0	2.0	2.2	42.5	5400
27	XZ1LZ1Z2Z1	2C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	19.5	1200
28	XZ1LZ1Z2Z1	3C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	20.0	1300
29	XZ1LZ1Z2Z1	4C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	21.0	1400
30	XZ1LZ1Z2Z1	5C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	22.0	1550
31	XZ1LZ1Z2Z1	6C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	23.0	1675
32	XZ1LZ1Z2Z1	7C X 2.5	7	0.7	1.0	1.2	1.0	1.25	1.8	23.0	1700
33	XZ1LZ1Z2Z1	8C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.8	24.5	1950
34	XZ1LZ1Z2Z1	10C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.8	25.5	2125
35	XZ1LZ1Z2Z1	12C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.8	27.0	2300
36	XZ1LZ1Z2Z1	14C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.8	28.0	2475
37	XZ1LZ1Z2Z1	15C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.8	28.5	2575
38	XZ1LZ1Z2Z1	16C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.8	29.0	2650
39	XZ1LZ1Z2Z1	18C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.9	30.0	2850
40	XZ1LZ1Z2Z1	19C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.9	30.5	2900
41	XZ1LZ1Z2Z1	20C X 2.5	7	0.7	1.0	1.2	1.0	1.6	1.9	31.0	2975
42	XZ1LZ1Z2Z1	22C X 2.5	7	0.7	1.0	1.3	1.0	1.6	1.9	32.0	3225
43	XZ1LZ1Z2Z1	24C X 2.5	7	0.7	1.0	1.3	1.0	1.6	2.0	33.0	3400
44	XZ1LZ1Z2Z1	25C X 2.5	7	0.7	1.0	1.3	1.0	1.6	2.0	33.5	3475
45	XZ1LZ1Z2Z1	26C X 2.5	7	0.7	1.0	1.3	1.0	1.6	2.0	34.0	3550
46	XZ1LZ1Z2Z1	30C X 2.5	7	0.7	1.0	1.3	1.0	2.0	2.0	36.0	4050
47	XZ1LZ1Z2Z1	32C X 2.5	7	0.7	1.0	1.4	1.0	2.0	2.1	37.0	4350
48	XZ1LZ1Z2Z1	35C X 2.5	7	0.7	1.0	1.4	1.0	2.0	2.1	38.0	4550
49	XZ1LZ1Z2Z1	36C X 2.5	7	0.7	1.0	1.4	1.0	2.0	2.1	38.5	4625
50	XZ1LZ1Z2Z1	40C X 2.5	7	0.7	1.0	1.4	1.0	2.0	2.2	40.0	4900
51	XZ1LZ1Z2Z1	50C X 2.5	7	0.7	1.2	1.5	1.2	2.0	2.3	44.0	5875
52	XZ1LZ1Z2Z1	61C X 2.5	7	0.7	1.2	1.6	1.3	2.5	2.4	48.5	7225