

LV CONTROL, MULTI CORE, SCREENED, ARMoured CABLE AS PER IEC 60502-1 (CU/XLPE/LSZH/CUT/LSZH/SWA/LSZH)

APPLICATION

These types of cables are used for Motor Control, power distribution, low-voltage installations, lighting circuits, 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.
Metallic Screen:	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap. Copper tape with 75µm, 100µm are also available on request.
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/CUT/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)	METALLIC SCREEN THICKNESS (mm)	NOMINAL SEPARATION SHEATH THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OVER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1C7Z1Z2Z1	2C X 1.5	7	0.7	1.0	0.05	1.2	0.9	1.8	16.0	515
2	XZ1C7Z1Z2Z1	3C X 1.5	7	0.7	1.0	0.05	1.2	0.9	1.8	16.5	550
3	XZ1C7Z1Z2Z1	4C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	18.0	700
4	XZ1C7Z1Z2Z1	5C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	775
5	XZ1C7Z1Z2Z1	6C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.5	835
6	XZ1C7Z1Z2Z1	7C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.5	850
7	XZ1C7Z1Z2Z1	8C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	20.5	900
8	XZ1C7Z1Z2Z1	10C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	21.5	1000
9	XZ1C7Z1Z2Z1	12C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	23.5	1235
10	XZ1C7Z1Z2Z1	14C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	24.5	1325
11	XZ1C7Z1Z2Z1	15C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	24.8	1375
12	XZ1C7Z1Z2Z1	16C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	25.0	1425
13	XZ1C7Z1Z2Z1	18C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.0	1515
14	XZ1C7Z1Z2Z1	19C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.5	1540
15	XZ1C7Z1Z2Z1	20C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	27.0	1585
16	XZ1C7Z1Z2Z1	22C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	27.5	1675
17	XZ1C7Z1Z2Z1	24C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.2	1750
18	XZ1C7Z1Z2Z1	25C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.5	1800
19	XZ1C7Z1Z2Z1	26C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.8	29.0	1825
20	XZ1C7Z1Z2Z1	30C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	30.5	2000
21	XZ1C7Z1Z2Z1	32C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.0	2085
22	XZ1C7Z1Z2Z1	35C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	32.0	2200
23	XZ1C7Z1Z2Z1	36C X 1.5	7	0.7	1.0	0.05	1.2	1.6	1.9	32.2	2250
24	XZ1C7Z1Z2Z1	40C X 1.5	7	0.7	1.0	0.05	1.2	1.6	2.0	33.5	2400
25	XZ1C7Z1Z2Z1	50C X 1.5	7	0.7	1.0	0.05	1.2	2.0	2.1	37.0	3000

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26	XZ1C7Z1Z2Z1	61C X 1.5	7	0.7	1.2	0.05	1.2	2.0	2.2	40.0	3400
27	XZ1C7Z1Z2Z1	2C X 2.5	7	0.7	1.0	0.05	1.2	0.9	1.8	17.0	575
28	XZ1C7Z1Z2Z1	3C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	18.0	725
29	XZ1C7Z1Z2Z1	4C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	800
30	XZ1C7Z1Z2Z1	5C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	20.0	875
31	XZ1C7Z1Z2Z1	6C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	21.0	950
32	XZ1C7Z1Z2Z1	7C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	21.0	975
33	XZ1C7Z1Z2Z1	8C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	22.0	1050
34	XZ1C7Z1Z2Z1	10C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	24.0	1300
35	XZ1C7Z1Z2Z1	12C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	25.0	1435
36	XZ1C7Z1Z2Z1	14C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.0	1550
37	XZ1C7Z1Z2Z1	15C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	26.5	1625
38	XZ1C7Z1Z2Z1	16C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	27.0	1685
39	XZ1C7Z1Z2Z1	18C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.0	1800
40	XZ1C7Z1Z2Z1	19C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	28.5	1850
41	XZ1C7Z1Z2Z1	20C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.8	29.0	1900
42	XZ1C7Z1Z2Z1	22C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	30.0	2025
43	XZ1C7Z1Z2Z1	24C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.0	2135
44	XZ1C7Z1Z2Z1	25C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.0	2200
45	XZ1C7Z1Z2Z1	26C X 2.5	7	0.7	1.0	0.05	1.2	1.6	1.9	31.5	2250
46	XZ1C7Z1Z2Z1	30C X 2.5	7	0.7	1.0	0.05	1.2	1.6	2.0	33.2	2475
47	XZ1C7Z1Z2Z1	32C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.0	34.5	2775
48	XZ1C7Z1Z2Z1	35C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.1	36.0	2950
49	XZ1C7Z1Z2Z1	36C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.1	36.0	3015
50	XZ1C7Z1Z2Z1	40C X 2.5	7	0.7	1.0	0.05	1.2	2.0	2.1	37.5	3200
51	XZ1C7Z1Z2Z1	50C X 2.5	7	0.7	1.2	0.05	1.2	2.0	2.2	40.5	3725
52	XZ1C7Z1Z2Z1	61C X 2.5	7	0.7	1.2	0.05	1.2	2.0	2.3	43.5	4275