

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

APPLICATION

Suitable for indoor Motor Control, power distribution, low-voltage installations, lighting circuits, and low-risk environments where mechanical protection is not critical. Ideal for use in conduits, trunking, and in locations protected from physical damage. 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.
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 (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:-

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)	METALLIC SCREEN THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1C7Z1	2C X 1.5	7	0.7	1.0	0.05	1.8	12.0	200
2	XZ1C7Z1	3C X 1.5	7	0.7	1.0	0.05	1.8	12.5	225
3	XZ1C7Z1	4C X 1.5	7	0.7	1.0	0.05	1.8	13.0	260
4	XZ1C7Z1	5C X 1.5	7	0.7	1.0	0.05	1.8	14.0	300
5	XZ1C7Z1	6C X 1.5	7	0.7	1.0	0.05	1.8	15.0	350
6	XZ1C7Z1	7C X 1.5	7	0.7	1.0	0.05	1.8	15.0	365
7	XZ1C7Z1	8C X 1.5	7	0.7	1.0	0.05	1.8	15.5	385
8	XZ1C7Z1	10C X 1.5	7	0.7	1.0	0.05	1.8	17.0	450
9	XZ1C7Z1	12C X 1.5	7	0.7	1.0	0.05	1.8	18.0	500
10	XZ1C7Z1	14C X 1.5	7	0.7	1.0	0.05	1.8	18.5	550
11	XZ1C7Z1	15C X 1.5	7	0.7	1.0	0.05	1.8	19.0	600
12	XZ1C7Z1	16C X 1.5	7	0.7	1.0	0.05	1.8	19.5	625
13	XZ1C7Z1	18C X 1.5	7	0.7	1.0	0.05	1.8	20.5	675
14	XZ1C7Z1	19C X 1.5	7	0.7	1.0	0.05	1.8	21.0	700
15	XZ1C7Z1	20C X 1.5	7	0.7	1.0	0.05	1.8	21.2	725
16	XZ1C7Z1	22C X 1.5	7	0.7	1.0	0.05	1.8	22.0	775
17	XZ1C7Z1	24C X 1.5	7	0.7	1.0	0.05	1.8	22.5	825
18	XZ1C7Z1	25C X 1.5	7	0.7	1.0	0.05	1.8	23.0	850
19	XZ1C7Z1	26C X 1.5	7	0.7	1.0	0.05	1.8	23.5	875
20	XZ1C7Z1	30C X 1.5	7	0.7	1.0	0.05	1.8	24.5	975
21	XZ1C7Z1	32C X 1.5	7	0.7	1.0	0.05	1.8	25.5	1050
22	XZ1C7Z1	35C X 1.5	7	0.7	1.0	0.05	1.8	26.0	1125
23	XZ1C7Z1	36C X 1.5	7	0.7	1.0	0.05	1.8	26.5	1150
24	XZ1C7Z1	40C X 1.5	7	0.7	1.0	0.05	1.8	27.5	1225
25	XZ1C7Z1	50C X 1.5	7	0.7	1.0	0.05	1.8	30.0	1475
26	XZ1C7Z1	61C X 1.5	7	0.7	1.0	0.05	1.8	32.5	1750

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27	XZ1C7Z1	2C X 2.5	7	0.7	1.0	0.05	1.9	12.5	225
28	XZ1C7Z1	3C X 2.5	7	0.7	1.0	0.05	1.8	13.2	275
29	XZ1C7Z1	4C X 2.5	7	0.7	1.0	0.05	1.8	14.0	325
30	XZ1C7Z1	5C X 2.5	7	0.7	1.0	0.05	1.8	15.0	375
31	XZ1C7Z1	6C X 2.5	7	0.7	1.0	0.05	1.8	16.0	425
32	XZ1C7Z1	7C X 2.5	7	0.7	1.0	0.05	1.8	16.0	435
33	XZ1C7Z1	8C X 2.5	7	0.7	1.0	0.05	1.8	17.0	480
34	XZ1C7Z1	10C X 2.5	7	0.7	1.0	0.05	1.8	18.5	575
35	XZ1C7Z1	12C X 2.5	7	0.7	1.0	0.05	1.8	19.5	650
36	XZ1C7Z1	14C X 2.5	7	0.7	1.0	0.05	1.8	20.5	725
37	XZ1C7Z1	15C X 2.5	7	0.7	1.0	0.05	1.8	21.0	775
38	XZ1C7Z1	16C X 2.5	7	0.7	1.0	0.05	1.8	21.5	800
39	XZ1C7Z1	18C X 2.5	7	0.7	1.0	0.05	1.8	22.5	900
40	XZ1C7Z1	19C X 2.5	7	0.7	1.0	0.05	1.8	23.0	925
41	XZ1C7Z1	20C X 2.5	7	0.7	1.0	0.05	1.8	23.5	950
42	XZ1C7Z1	22C X 2.5	7	0.7	1.0	0.05	1.8	24.2	1025
43	XZ1C7Z1	24C X 2.5	7	0.7	1.0	0.05	1.8	25.0	1100
44	XZ1C7Z1	25C X 2.5	7	0.7	1.0	0.05	1.8	25.5	1150
45	XZ1C7Z1	26C X 2.5	7	0.7	1.0	0.05	1.8	25.8	1175
46	XZ1C7Z1	30C X 2.5	7	0.7	1.0	0.05	1.8	27.5	1325
47	XZ1C7Z1	32C X 2.5	7	0.7	1.0	0.05	1.8	28.0	1400
48	XZ1C7Z1	35C X 2.5	7	0.7	1.0	0.05	1.8	29.0	1500
49	XZ1C7Z1	36C X 2.5	7	0.7	1.0	0.05	1.8	29.5	1550
50	XZ1C7Z1	40C X 2.5	7	0.7	1.0	0.05	1.9	31.0	1685
51	XZ1C7Z1	50C X 2.5	7	0.7	1.0	0.05	2.0	34.0	2050
52	XZ1C7Z1	61C X 2.5	7	0.7	1.0	0.05	2.1	37.0	2450