

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

APPLICATION

Suitable for indoor 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:	Extruded Cross Linked Polyethylene (XLPE) rated 90°C
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.
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 (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 60332-1-2

*Other special sheath materials are also available with Flame Retardant:- IEC 60332-3-24 (CAT C), 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 OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1	2C X 1.5	7	0.7	1.8	9.8	125
2	XZ1	3C X 1.5	7	0.7	1.8	10.3	150
3	XZ1	4C X 1.5	7	0.7	1.8	10.9	180
4	XZ1	5C X 1.5	7	0.7	1.8	12.0	210
5	XZ1	6C X 1.5	7	0.7	1.8	12.8	250
6	XZ1	7C X 1.5	7	0.7	1.8	12.8	260
7	XZ1	8C X 1.5	7	0.7	1.8	13.5	280
8	XZ1	10C X 1.5	7	0.7	1.8	14.7	330
9	XZ1	12C X 1.5	7	0.7	1.8	15.7	380
10	XZ1	14C X 1.5	7	0.7	1.8	16.7	430
11	XZ1	15C X 1.5	7	0.7	1.8	17.2	470
12	XZ1	16C X 1.5	7	0.7	1.8	17.5	485
13	XZ1	18C X 1.5	7	0.7	1.8	18.5	550
14	XZ1	19C X 1.5	7	0.7	1.8	18.7	550
15	XZ1	20C X 1.5	7	0.7	1.8	19.2	575
16	XZ1	22C X 1.5	7	0.7	1.8	20.0	625
17	XZ1	24C X 1.5	7	0.7	1.8	20.7	675
18	XZ1	25C X 1.5	7	0.7	1.8	21.0	700
19	XZ1	26C X 1.5	7	0.7	1.8	21.3	725
20	XZ1	30C X 1.5	7	0.7	1.8	22.6	815
21	XZ1	32C X 1.5	7	0.7	1.8	23.2	875
22	XZ1	35C X 1.5	7	0.7	1.8	24.2	930
23	XZ1	36C X 1.5	7	0.7	1.8	24.5	960
24	XZ1	40C X 1.5	7	0.7	1.8	25.5	1050
25	XZ1	50C X 1.5	7	0.7	1.8	28.0	1275
26	XZ1	61C X 1.5	7	0.7	1.9	30.7	1525
27	XZ1	2C X 2.5	7	0.7	1.8	10.7	155
28	XZ1	3C X 2.5	7	0.7	1.8	11.2	185

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29	XZ1	4C X 2.5	7	0.7	1.8	12.0	225
30	XZ1	5C X 2.5	7	0.7	1.8	13.0	275
31	XZ1	6C X 2.5	7	0.7	1.8	14.0	325
32	XZ1	7C X 2.5	7	0.7	1.8	14.0	350
33	XZ1	8C X 2.5	7	0.7	1.8	14.9	375
34	XZ1	10C X 2.5	7	0.7	1.8	16.2	450
35	XZ1	12C X 2.5	7	0.7	1.8	17.5	525
36	XZ1	14C X 2.5	7	0.7	1.8	18.5	580
37	XZ1	15C X 2.5	7	0.7	1.8	19.0	625
38	XZ1	16C X 2.5	7	0.7	1.8	19.5	675
39	XZ1	18C X 2.5	7	0.7	1.8	20.4	740
40	XZ1	19C X 2.5	7	0.7	1.8	20.8	760
41	XZ1	20C X 2.5	7	0.7	1.8	21.3	800
42	XZ1	22C X 2.5	7	0.7	1.8	22.2	865
43	XZ1	24C X 2.5	7	0.7	1.8	23.0	930
44	XZ1	25C X 2.5	7	0.7	1.8	23.5	960
45	XZ1	26C X 2.5	7	0.7	1.8	23.8	1000
46	XZ1	30C X 2.5	7	0.7	1.8	25.2	1130
47	XZ1	32C X 2.5	7	0.7	1.8	26.0	1200
48	XZ1	35C X 2.5	7	0.7	1.8	27.0	1300
49	XZ1	36C X 2.5	7	0.7	1.8	27.3	1350
50	XZ1	40C X 2.5	7	0.7	1.8	28.5	1460
51	XZ1	50C X 2.5	7	0.7	1.9	31.8	1800
52	XZ1	61C X 2.5	7	0.7	2.0	34.8	2175