

LV POWER, 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:- 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.
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	2C X 2.5	7	0.7	1.0	0.05	1.8	12.5	225
3	XZ1C7Z1	2C X 4	7	0.7	1.0	0.05	1.8	14.0	275
4	XZ1C7Z1	2C X 6	7	0.7	1.0	0.05	1.8	15.0	350
5	XZ1C7Z1	2C X 10	7	0.7	1.0	0.05	1.8	16.8	455
6	XZ1C7Z1	2C X 16	7	0.7	1.0	0.05	1.8	19.0	650
7	XZ1C7Z1	2C X 25	7	0.9	1.0	0.05	1.8	22.5	925
8	XZ1C7Z1	2C X 35	7	0.9	1.0	0.05	1.8	24.5	1175
9	XZ1C7Z1	2C X 50	19	1.0	1.0	0.05	1.8	27.5	1500
10	XZ1C7Z1	3C X 1.5	7	0.7	1.0	0.05	1.8	12.5	225
11	XZ1C7Z1	3C X 2.5	7	0.7	1.0	0.05	1.8	13.2	275
12	XZ1C7Z1	3C X 4	7	0.7	1.0	0.05	1.8	14.5	350
13	XZ1C7Z1	3C X 6	7	0.7	1.0	0.05	1.8	15.7	425
14	XZ1C7Z1	3C X 10	7	0.7	1.0	0.05	1.8	17.5	575
15	XZ1C7Z1	3C X 16	7	0.7	1.0	0.05	1.8	20.0	825
16	XZ1C7Z1	3C X 25	7	0.9	1.0	0.05	1.8	23.5	1215
17	XZ1C7Z1	3C X 35	7	0.9	1.0	0.05	1.8	26.0	1550
18	XZ1C7Z1	3C X 50	19	1.0	1.0	0.05	1.9	29.5	2025
19	XZ1C7Z1	4C X 1.5	7	0.7	1.0	0.05	1.8	13.0	260
20	XZ1C7Z1	4C X 2.5	7	0.7	1.0	0.05	1.8	14.0	325
21	XZ1C7Z1	4C X 4	7	0.7	1.0	0.05	1.8	15.5	400
22	XZ1C7Z1	4C X 6	7	0.7	1.0	0.05	1.8	16.8	515
23	XZ1C7Z1	4C X 10	7	0.7	1.0	0.05	1.8	19.0	715
24	XZ1C7Z1	4C X 16	7	0.7	1.0	0.05	1.8	21.5	1025
25	XZ1C7Z1	4C X 25	7	0.9	1.0	0.05	1.8	25.5	1515
26	XZ1C7Z1	4C X 35	7	0.9	1.0	0.05	1.8	28.5	1975

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27	XZ1C7Z1	4C X 50	19	1.0	1.0	0.05	1.9	32.5	2585
28	XZ1C7Z1	5C X 1.5	7	0.7	1.0	0.05	1.8	14.0	300
29	XZ1C7Z1	5C X 2.5	7	0.7	1.0	0.05	1.8	15.0	375
30	XZ1C7Z1	5C X 4	7	0.7	1.0	0.05	1.8	16.5	475
31	XZ1C7Z1	5C X 6	7	0.7	1.0	0.05	1.8	18.0	600
32	XZ1C7Z1	5C X 10	7	0.7	1.0	0.05	1.8	20.5	850
33	XZ1C7Z1	5C X 16	7	0.7	1.0	0.05	1.8	23.5	1200
34	XZ1C7Z1	5C X 25	7	0.9	1.0	0.05	1.8	28.0	1775
35	XZ1C7Z1	5C X 35	7	0.9	1.0	0.05	1.8	32.0	2375

