

LV POWER, 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:- 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.
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	2C X 2.5	7	0.7	1.8	10.7	155
3	XZ1	2C X 4	7	0.7	1.8	11.8	195
4	XZ1	2C X 6	7	0.7	1.8	13.0	250
5	XZ1	2C X 10	7	0.7	1.8	14.8	350
6	XZ1	2C X 16	7	0.7	1.8	16.8	525
7	XZ1	2C X 25	7	0.9	1.8	20.3	775
8	XZ1	2C X 35	7	0.9	1.8	22.5	1000
9	XZ1	2C X 50	19	1.0	1.8	25.8	1320
10	XZ1	3C X 1.5	7	0.7	1.8	10.3	150
11	XZ1	3C X 2.5	7	0.7	1.8	11.2	185
12	XZ1	3C X 4	7	0.7	1.8	12.5	250
13	XZ1	3C X 6	7	0.7	1.8	13.7	325
14	XZ1	3C X 10	7	0.7	1.8	15.7	475
15	XZ1	3C X 16	7	0.7	1.8	17.8	700
16	XZ1	3C X 25	7	0.9	1.8	21.5	1050
17	XZ1	3C X 35	7	0.9	1.8	24.0	1375
18	XZ1	3C X 50	19	1.0	1.8	27.3	1800
19	XZ1	4C X 1.5	7	0.7	1.8	10.9	180
20	XZ1	4C X 2.5	7	0.7	1.8	12.0	225
21	XZ1	4C X 4	7	0.7	1.8	13.2	300
22	XZ1	4C X 6	7	0.7	1.8	14.7	400
23	XZ1	4C X 10	7	0.7	1.8	16.8	580
24	XZ1	4C X 16	7	0.7	1.8	19.5	880
25	XZ1	4C X 25	7	0.9	1.8	23.5	1350
26	XZ1	4C X 35	7	0.9	1.8	26.3	1775
27	XZ1	4C X 50	19	1.0	1.9	30.2	2350
28	XZ1	5C X 1.5	7	0.7	1.8	12.0	210

Circular Conductor:-

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29	XZ1	5C X 2.5	7	0.7	1.8	13.0	275
30	XZ1	5C X 4	7	0.7	1.8	14.5	375
31	XZ1	5C X 6	7	0.7	1.8	16.2	500
32	XZ1	5C X 10	7	0.7	1.8	18.5	725
33	XZ1	5C X 16	7	0.7	1.8	21.5	1050
34	XZ1	5C X 25	7	0.9	1.8	26.0	1580
35	XZ1	5C X 35	7	0.9	1.8	29.2	2100

Shaped 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	3C X 25	7	0.9	1.8	18.0	850
2	XZ1	3C X 35	7	0.9	1.8	19.5	1125
3	XZ1	3C X 50	19	1.0	1.8	22.5	1525
4	XZ1	3C X 70	19	1.1	1.9	26.0	2150
5	XZ1	3C X 95	19	1.1	2.0	29.0	2850
6	XZ1	3C X 120	19	1.2	2.1	32.0	3575
7	XZ1	3C X 150	19	1.4	2.3	36.0	4425
8	XZ1	3C X 185	37	1.6	2.4	39.5	5450
9	XZ1	3C X 240	37	1.7	2.6	44.5	7100
10	XZ1	3C X 300	37	1.8	2.8	49.0	8990
11	XZ1	3C X 400	61	2.0	3.0	56.0	11350
12	XZ1	4C X 25	7	0.9	1.8	20.5	1125
13	XZ1	4C X 35	7	0.9	1.8	23.0	1500
14	XZ1	4C X 50	19	1.0	1.9	27.0	2050
15	XZ1	4C X 70	19	1.1	2.0	31.0	2850
16	XZ1	4C X 95	19	1.1	2.1	34.5	3775

Shaped Conductor:-

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17	XZ1	4C X 120	19	1.2	2.3	38.5	4780
18	XZ1	4C X 150	19	1.4	2.4	43.0	5900
19	XZ1	4C X 185	37	1.6	2.6	48.0	7300
20	XZ1	4C X 240	37	1.7	2.8	53.5	9500
21	XZ1	4C X 300	37	1.8	3.0	59.0	11975
22	XZ1	4C X 400	61	2.0	3.3	67.5	15200

