

LV POWER, MULTI CORE, ARMoured CABLE AS PER IEC 60502-1 (CU/XLPE/LSZH/DSTA/LSZH)

APPLICATION

These types of cables are used for power distribution, industrial machinery, building wiring, 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:- 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.
Armouring:	Double galvanized steel tape is applied helically over the inner 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/DSTA/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)	NOMINAL GALVANIZED STEEL TAPE THICKNESS (mm)	NOMINAL OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1Z4Z1	2C X 1.5	7	0.7	1.0	0.2	1.8	12.5	250
2	XZ1Z4Z1	2C X 2.5	7	0.7	1.0	0.2	1.8	13.5	300
3	XZ1Z4Z1	2C X 4	7	0.7	1.0	0.2	1.8	14.5	350
4	XZ1Z4Z1	2C X 6	7	0.7	1.0	0.2	1.8	15.5	425
5	XZ1Z4Z1	2C X 10	7	0.7	1.0	0.2	1.8	17.5	550
6	XZ1Z4Z1	2C X 16	7	0.7	1.0	0.2	1.8	19.5	750
7	XZ1Z4Z1	2C X 25	7	0.9	1.0	0.2	1.8	23.0	1075
8	XZ1Z4Z1	2C X 35	7	0.9	1.0	0.2	1.8	25.0	1350
9	XZ1Z4Z1	2C X 50	19	1.0	1.0	0.2	1.8	28.3	1700
10	XZ1Z4Z1	3C X 1.5	7	0.7	1.0	0.2	1.8	13.0	300
11	XZ1Z4Z1	3C X 2.5	7	0.7	1.0	0.2	1.8	14.0	325
12	XZ1Z4Z1	3C X 4	7	0.7	1.0	0.2	1.8	15.0	425
13	XZ1Z4Z1	3C X 6	7	0.7	1.0	0.2	1.8	16.5	525
14	XZ1Z4Z1	3C X 10	7	0.7	1.0	0.2	1.8	18.3	700
15	XZ1Z4Z1	3C X 16	7	0.7	1.0	0.2	1.8	20.5	950
16	XZ1Z4Z1	3C X 25	7	0.9	1.0	0.2	1.8	24.0	1375
17	XZ1Z4Z1	3C X 35	7	0.9	1.0	0.2	1.8	26.5	1725
18	XZ1Z4Z1	3C X 50	19	1.0	1.0	0.2	1.9	30.5	2225
19	XZ1Z4Z1	4C X 1.5	7	0.7	1.0	0.2	1.8	13.5	325
20	XZ1Z4Z1	4C X 2.5	7	0.7	1.0	0.2	1.8	14.5	400
21	XZ1Z4Z1	4C X 4	7	0.7	1.0	0.2	1.8	16.0	475
22	XZ1Z4Z1	4C X 6	7	0.7	1.0	0.2	1.8	17.5	600
23	XZ1Z4Z1	4C X 10	7	0.7	1.0	0.2	1.8	19.5	825
24	XZ1Z4Z1	4C X 16	7	0.7	1.0	0.2	1.8	22.0	1175
25	XZ1Z4Z1	4C X 25	7	0.9	1.0	0.2	1.8	26.5	1700
26	XZ1Z4Z1	4C X 35	7	0.9	1.0	0.2	1.8	29.0	2150

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27	XZ1Z4Z1	4C X 50	19	1.0	1.0	0.2	2.0	32.5	2750
28	XZ1Z4Z1	5C X 1.5	7	0.7	1.0	0.2	1.8	14.5	375
29	XZ1Z4Z1	5C X 2.5	7	0.7	1.0	0.2	1.8	15.8	450
30	XZ1Z4Z1	5C X 4	7	0.7	1.0	0.2	1.8	17.0	575
31	XZ1Z4Z1	5C X 6	7	0.7	1.0	0.2	1.8	19.0	725
32	XZ1Z4Z1	5C X 10	7	0.7	1.0	0.2	1.8	21.0	985
33	XZ1Z4Z1	5C X 16	7	0.7	1.0	0.2	1.8	24.0	1350
34	XZ1Z4Z1	5C X 25	7	0.9	1.0	0.2	1.8	28.5	1975
35	XZ1Z4Z1	5C X 35	7	0.9	1.0	0.2	1.9	32.0	2550

