

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

APPLICATION

These types of cables are used for industrial machinery, signal & power transmission for machinery, control & monitoring of electrical systems, 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 & 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.
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	3C X 1.5	7	0.7	1.0	0.2	1.8	13.0	300
3	XZ1Z4Z1	4C X 1.5	7	0.7	1.0	0.2	1.8	13.5	325
4	XZ1Z4Z1	5C X 1.5	7	0.7	1.0	0.2	1.8	14.5	375
5	XZ1Z4Z1	6C X 1.5	7	0.7	1.0	0.2	1.8	15.5	400
6	XZ1Z4Z1	7C X 1.5	7	0.7	1.0	0.2	1.8	15.5	425
7	XZ1Z4Z1	8C X 1.5	7	0.7	1.0	0.2	1.8	16.0	450
8	XZ1Z4Z1	10C X 1.5	7	0.7	1.0	0.2	1.8	17.3	525
9	XZ1Z4Z1	12C X 1.5	7	0.7	1.0	0.2	1.8	18.5	600
10	XZ1Z4Z1	14C X 1.5	7	0.7	1.0	0.2	1.8	19.3	650
11	XZ1Z4Z1	15C X 1.5	7	0.7	1.0	0.2	1.8	19.6	700
12	XZ1Z4Z1	16C X 1.5	7	0.7	1.0	0.2	1.8	20.0	725
13	XZ1Z4Z1	18C X 1.5	7	0.7	1.0	0.2	1.8	21.0	800
14	XZ1Z4Z1	19C X 1.5	7	0.7	1.0	0.2	1.8	21.3	800
15	XZ1Z4Z1	20C X 1.5	7	0.7	1.0	0.2	1.8	21.8	825
16	XZ1Z4Z1	22C X 1.5	7	0.7	1.0	0.2	1.8	22.5	900
17	XZ1Z4Z1	24C X 1.5	7	0.7	1.0	0.2	1.8	23.0	950
18	XZ1Z4Z1	25C X 1.5	7	0.7	1.0	0.2	1.8	23.5	1000
19	XZ1Z4Z1	26C X 1.5	7	0.7	1.0	0.2	1.8	24.0	1025
20	XZ1Z4Z1	30C X 1.5	7	0.7	1.0	0.2	1.8	25.2	1125
21	XZ1Z4Z1	32C X 1.5	7	0.7	1.0	0.2	1.8	25.8	1200
22	XZ1Z4Z1	35C X 1.5	7	0.7	1.0	0.2	1.8	26.5	1260
23	XZ1Z4Z1	36C X 1.5	7	0.7	1.0	0.2	1.8	27.0	1300
24	XZ1Z4Z1	40C X 1.5	7	0.7	1.0	0.2	1.8	28.0	1440
25	XZ1Z4Z1	50C X 1.5	7	0.7	1.0	0.2	1.9	30.5	1700
26	XZ1Z4Z1	61C X 1.5	7	0.7	1.2	0.2	1.9	33.8	2000

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27	XZ1Z4Z1	2C X 2.5	7	0.7	1.0	0.2	1.8	13.5	300
28	XZ1Z4Z1	3C X 2.5	7	0.7	1.0	0.2	1.8	14.0	325
29	XZ1Z4Z1	4C X 2.5	7	0.7	1.0	0.2	1.8	14.5	400
30	XZ1Z4Z1	5C X 2.5	7	0.7	1.0	0.2	1.8	15.8	450
31	XZ1Z4Z1	6C X 2.5	7	0.7	1.0	0.2	1.8	16.6	500
32	XZ1Z4Z1	7C X 2.5	7	0.7	1.0	0.2	1.8	16.6	525
33	XZ1Z4Z1	8C X 2.5	7	0.7	1.0	0.2	1.8	17.5	575
34	XZ1Z4Z1	10C X 2.5	7	0.7	1.0	0.2	1.8	18.8	650
35	XZ1Z4Z1	12C X 2.5	7	0.7	1.0	0.2	1.8	20.0	750
36	XZ1Z4Z1	14C X 2.5	7	0.7	1.0	0.2	1.8	21.0	850
37	XZ1Z4Z1	15C X 2.5	7	0.7	1.0	0.2	1.8	21.5	900
38	XZ1Z4Z1	16C X 2.5	7	0.7	1.0	0.2	1.8	22.0	930
39	XZ1Z4Z1	18C X 2.5	7	0.7	1.0	0.2	1.8	23.0	1000
40	XZ1Z4Z1	19C X 2.5	7	0.7	1.0	0.2	1.8	23.5	1050
41	XZ1Z4Z1	20C X 2.5	7	0.7	1.0	0.2	1.8	24.0	1100
42	XZ1Z4Z1	22C X 2.5	7	0.7	1.0	0.2	1.8	24.8	1175
43	XZ1Z4Z1	24C X 2.5	7	0.7	1.0	0.2	1.8	25.5	1250
44	XZ1Z4Z1	25C X 2.5	7	0.7	1.0	0.2	1.8	26.0	1300
45	XZ1Z4Z1	26C X 2.5	7	0.7	1.0	0.2	1.8	26.4	1350
46	XZ1Z4Z1	30C X 2.5	7	0.7	1.0	0.2	1.8	27.8	1500
47	XZ1Z4Z1	32C X 2.5	7	0.7	1.0	0.2	1.8	28.5	1775
48	XZ1Z4Z1	35C X 2.5	7	0.7	1.0	0.2	1.8	29.5	1700
49	XZ1Z4Z1	36C X 2.5	7	0.7	1.0	0.2	1.8	30.0	1750
50	XZ1Z4Z1	40C X 2.5	7	0.7	1.0	0.2	1.9	31.3	1880
51	XZ1Z4Z1	50C X 2.5	7	0.7	1.2	0.2	2.0	34.8	2300
52	XZ1Z4Z1	61C X 2.5	7	0.7	1.2	0.2	2.1	37.8	2750