

LV POWER, MULTI CORE, ARMoured CABLE AS PER BS 6724 (CU/XLPE/LSZH/SWA/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 BS EN 60228
Insulation:	Cross linked polyethylene (XLPE) to BS 7655-1.3.
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.
Bedding:	Extruded layer of Low Smoke Zero Halogen (LSZH) consistent with the operating temperature of the cable in Black colour. Other colors are available upon request.
Armouring:	A single layer of round galvanized steel wire armour is applied over the bedding.
Outer Sheath:	Extruded Low Smoke Zero Halogen (LSZH) Type LTS 1 to BS 7655-6.1 in Black color. Other colors are available upon request.
Marking Text on the Outer Sheath (Example):	ELECTRIC CABLE CU/XLPE/LSZH/SWA/LSZH (NO. OF CORES X CONDUCTOR SIZE) 600/1000V BS 6724 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:	70% (BS EN 61034-2)
Flame Retardant Test:	BS EN 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 BEDDING THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OVER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1Z2Z1	2C X 1.5	7	0.6	0.8	0.9	1.3	11.8	300
2	XZ1Z2Z1	2C X 2.5	7	0.7	0.8	0.9	1.4	13.2	360
3	XZ1Z2Z1	2C X 4	7	0.7	0.8	0.9	1.4	14.3	430
4	XZ1Z2Z1	2C X 6	7	0.7	0.8	0.9	1.4	15.5	500
5	XZ1Z2Z1	2C X 10	7	0.7	0.8	0.9	1.5	17.5	650
6	XZ1Z2Z1	2C X 16	7	0.7	0.8	1.25	1.5	20.3	1000
7	XZ1Z2Z1	2C X 25	7	0.9	0.8	1.25	1.6	24.0	1375
8	XZ1Z2Z1	2C X 35	7	0.9	1.0	1.6	1.7	27.5	1875
9	XZ1Z2Z1	2C X 50	19	1.0	1.0	1.6	1.9	31.0	2340
10	XZ1Z2Z1	3C X 1.5	7	0.6	0.8	0.9	1.3	12.2	325
11	XZ1Z2Z1	3C X 2.5	7	0.7	0.8	0.9	1.4	13.8	400
12	XZ1Z2Z1	3C X 4	7	0.7	0.8	0.9	1.4	14.9	485
13	XZ1Z2Z1	3C X 6	7	0.7	0.8	0.9	1.4	16.2	600
14	XZ1Z2Z1	3C X 10	7	0.7	0.8	1.25	1.5	19.0	890
15	XZ1Z2Z1	3C X 16	7	0.7	0.8	1.25	1.6	21.5	1200
16	XZ1Z2Z1	3C X 25	7	0.9	1.0	1.6	1.7	26.5	1880
17	XZ1Z2Z1	3C X 35	7	0.9	1.0	1.6	1.8	29.2	2325
18	XZ1Z2Z1	3C X 50	19	1.0	1.0	1.6	1.9	32.7	2880
19	XZ1Z2Z1	4C X 1.5	7	0.6	0.8	0.9	1.3	12.9	365
20	XZ1Z2Z1	4C X 2.5	7	0.7	0.8	0.9	1.4	14.6	465
21	XZ1Z2Z1	4C X 4	7	0.7	0.8	0.9	1.4	15.9	570
22	XZ1Z2Z1	4C X 6	7	0.7	0.8	1.25	1.5	18.2	800
23	XZ1Z2Z1	4C X 10	7	0.7	0.8	1.25	1.5	20.4	1050
24	XZ1Z2Z1	4C X 16	7	0.7	0.8	1.25	1.6	23.1	1430
25	XZ1Z2Z1	4C X 25	7	0.9	1.0	1.6	1.7	28.5	2240
26	XZ1Z2Z1	4C X 35	7	0.9	1.0	1.6	1.8	31.5	2785

Circular Conductor:-

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27	XZ1Z2Z1	4C X 50	19	1.0	1.2	2.0	2.0	36.6	3790
28	XZ1Z2Z1	5C X 1.5	7	0.6	0.8	0.9	1.4	14.0	420
29	XZ1Z2Z1	5C X 2.5	7	0.7	0.8	0.9	1.4	15.5	530
30	XZ1Z2Z1	5C X 4	7	0.7	0.8	0.9	1.5	17.2	660
31	XZ1Z2Z1	5C X 6	7	0.7	0.8	1.25	1.5	19.7	940
32	XZ1Z2Z1	5C X 10	7	0.7	0.8	1.25	1.6	22.3	1245
33	XZ1Z2Z1	5C X 16	7	0.7	1.0	1.6	1.7	26.5	1860
34	XZ1Z2Z1	5C X 25	7	0.9	1.0	1.6	1.8	31.3	2600
35	XZ1Z2Z1	5C X 35	7	0.9	1.0	1.6	1.9	34.6	3260

Shaped Conductor:-

SERIAL NO.	TEKAB CODE	NO. OF CORES X CONDUCTOR SIZE (NO. X Sq.mm.)	NO. OF STRANDS	NOMINAL INSULATION THICKNESS (mm)	NOMINAL BEDDING THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OVER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1Z2Z1	3C X 25	7	0.9	1.0	1.6	1.7	23.0	1450
2	XZ1Z2Z1	3C X 35	7	0.9	1.0	1.6	1.8	25.0	1800
3	XZ1Z2Z1	3C X 50	19	1.0	1.0	1.6	1.8	28.0	2300
4	XZ1Z2Z1	3C X 70	19	1.1	1.0	1.6	1.9	31.0	3025
5	XZ1Z2Z1	3C X 95	19	1.1	1.2	2.0	2.1	35.5	4100
6	XZ1Z2Z1	3C X 120	19	1.2	1.2	2.0	2.2	38.5	4950
7	XZ1Z2Z1	3C X 150	19	1.4	1.4	2.5	2.3	43.8	6350
8	XZ1Z2Z1	3C X 185	37	1.6	1.4	2.5	2.4	47.5	7550
9	XZ1Z2Z1	3C X 240	37	1.7	1.4	2.5	2.6	52.5	9500
10	XZ1Z2Z1	3C X 300	37	1.8	1.6	2.5	2.7	57.0	11600

Shaped Conductor:-

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11	XZ1Z2Z1	3C X 400	61	2.0	1.6	2.5	2.9	64.0	14300
12	XZ1Z2Z1	4C X 25	7	0.9	1.0	1.6	1.7	25.8	1800
13	XZ1Z2Z1	4C X 35	7	0.9	1.0	1.6	1.8	28.5	2280
14	XZ1Z2Z1	4C X 50	19	1.0	1.0	1.6	1.9	32.0	2950
15	XZ1Z2Z1	4C X 70	19	1.1	1.2	2.0	2.1	37.5	4180
16	XZ1Z2Z1	4C X 95	19	1.1	1.2	2.0	2.2	41.2	5295
17	XZ1Z2Z1	4C X 120	19	1.2	1.4	2.5	2.3	46.5	6850
18	XZ1Z2Z1	4C X 150	19	1.4	1.4	2.5	2.4	50.8	8185
19	XZ1Z2Z1	4C X 185	37	1.6	1.4	2.5	2.6	55.7	9805
20	XZ1Z2Z1	4C X 240	37	1.7	1.6	2.5	2.7	61.5	12380
21	XZ1Z2Z1	4C X 300	37	1.8	1.6	2.5	2.9	67.2	15160
22	XZ1Z2Z1	4C X 400	61	2.0	1.8	3.15	3.2	77.5	19600

