

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

APPLICATION

These types of cables are used for Motor Control, power distribution, low-voltage installations, lighting circuits, 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.
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.
Separation Sheath:	Extruded layer of Low Smoke Zero Halogen (LSZH) in Black colour. Other colors are available upon request.
Armouring:	A single layer of round galvanized steel wire armour is applied over the separation 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/CUT/LSZH/SWA/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:-

SR. 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 SEPARATION SHEATH THICKNESS (mm)	NOMINAL ROUND ARMOUR WIRE DIAMETER (mm)	NOMINAL OVER SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XZ1C7Z1Z2Z1	2C X 1.5	7	0.7	1.0	0.05	1.2	0.9	1.8	16.0	515
2	XZ1C7Z1Z2Z1	2C X 2.5	7	0.7	1.0	0.05	1.2	0.9	1.8	17.0	575
3	XZ1C7Z1Z2Z1	2C X 4	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	750
4	XZ1C7Z1Z2Z1	2C X 6	7	0.7	1.0	0.05	1.2	1.25	1.8	20.0	850
5	XZ1C7Z1Z2Z1	2C X 10	7	0.7	1.0	0.05	1.2	1.25	1.8	21.5	1025
6	XZ1C7Z1Z2Z1	2C X 16	7	0.7	1.0	0.05	1.2	1.6	1.8	24.5	1425
7	XZ1C7Z1Z2Z1	2C X 25	7	0.9	1.0	0.05	1.2	1.6	1.8	28.0	1850
8	XZ1C7Z1Z2Z1	2C X 35	7	0.9	1.0	0.05	1.2	1.6	1.8	30.5	2175
9	XZ1C7Z1Z2Z1	2C X 50	19	1.0	1.0	0.05	1.2	1.6	1.9	33.5	2650
10	XZ1C7Z1Z2Z1	3C X 1.5	7	0.7	1.0	0.05	1.2	0.9	1.8	16.5	550
11	XZ1C7Z1Z2Z1	3C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	18.0	725
12	XZ1C7Z1Z2Z1	3C X 4	7	0.7	1.0	0.05	1.2	1.25	1.8	19.5	825
13	XZ1C7Z1Z2Z1	3C X 6	7	0.7	1.0	0.05	1.2	1.25	1.8	20.5	950
14	XZ1C7Z1Z2Z1	3C X 10	7	0.7	1.0	0.05	1.2	1.25	1.8	22.5	1175
15	XZ1C7Z1Z2Z1	3C X 16	7	0.7	1.0	0.05	1.2	1.6	1.8	25.5	1650
16	XZ1C7Z1Z2Z1	3C X 25	7	0.9	1.0	0.05	1.2	1.6	1.8	29.5	2175
17	XZ1C7Z1Z2Z1	3C X 35	7	0.9	1.0	0.05	1.2	1.6	1.9	32.0	2650
18	XZ1C7Z1Z2Z1	3C X 50	19	1.0	1.0	0.05	1.2	1.6	2.0	35.5	3250
19	XZ1C7Z1Z2Z1	4C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	18.0	700
20	XZ1C7Z1Z2Z1	4C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	800
21	XZ1C7Z1Z2Z1	4C X 4	7	0.7	1.0	0.05	1.2	1.25	1.8	20.5	925
22	XZ1C7Z1Z2Z1	4C X 6	7	0.7	1.0	0.05	1.2	1.25	1.8	22.0	1075
23	XZ1C7Z1Z2Z1	4C X 10	7	0.7	1.0	0.05	1.2	1.6	1.8	24.5	1500
24	XZ1C7Z1Z2Z1	4C X 16	7	0.7	1.0	0.05	1.2	1.6	1.8	27.0	1900
25	XZ1C7Z1Z2Z1	4C X 25	7	0.9	1.0	0.05	1.2	1.6	1.9	31.5	2575

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26	XZ1C7Z1Z2Z1	4C X 35	7	0.9	1.0	0.05	1.2	1.6	1.9	34.0	3150
27	XZ1C7Z1Z2Z1	4C X 50	19	1.0	1.2	0.05	1.2	2.0	2.1	39.5	4200
28	XZ1C7Z1Z2Z1	5C X 1.5	7	0.7	1.0	0.05	1.2	1.25	1.8	19.0	775
29	XZ1C7Z1Z2Z1	5C X 2.5	7	0.7	1.0	0.05	1.2	1.25	1.8	20.0	875
30	XZ1C7Z1Z2Z1	5C X 4	7	0.7	1.0	0.05	1.2	1.25	1.8	21.5	1025
31	XZ1C7Z1Z2Z1	5C X 6	7	0.7	1.0	0.05	1.2	1.25	1.8	23.0	1225
32	XZ1C7Z1Z2Z1	5C X 10	7	0.7	1.0	0.05	1.2	1.6	1.8	26.5	1700
33	XZ1C7Z1Z2Z1	5C X 16	7	0.7	1.0	0.05	1.2	1.6	1.8	29.0	2150
34	XZ1C7Z1Z2Z1	5C X 25	7	0.9	1.0	0.05	1.2	1.6	1.9	34.0	2950
35	XZ1C7Z1Z2Z1	5C X 35	7	0.9	1.0	0.05	1.2	2.0	2.1	38.0	3900

