

LV CONTROL, MULTI CORE, ARMoured CABLE AS PER BS 6724 (CU/XLPE/LSZH/SWA/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 BS EN 60228
Insulation:	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Insulation Color:	Black cores with number printed on each cores 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 AUX 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	7C X 1.5	7	0.6	0.8	0.9	1.4	14.7	480
2	XZ1Z2Z1	12C X 1.5	7	0.6	0.8	1.25	1.5	18.5	770
3	XZ1Z2Z1	19C X 1.5	7	0.6	0.8	1.25	1.6	21.5	1030
4	XZ1Z2Z1	27C X 1.5	7	0.6	1.0	1.6	1.7	25.5	1480
5	XZ1Z2Z1	37C X 1.5	7	0.6	1.0	1.6	1.7	28.3	1820
6	XZ1Z2Z1	7C X 2.5	7	0.7	0.8	0.9	1.4	16.7	615
7	XZ1Z2Z1	12C X 2.5	7	0.7	0.8	1.25	1.6	21.1	1010
8	XZ1Z2Z1	19C X 2.5	7	0.7	1.0	1.6	1.7	25.8	1560
9	XZ1Z2Z1	27C X 2.5	19	0.7	1.0	1.6	1.8	29.3	1975
10	XZ1Z2Z1	37C X 2.5	7	0.7	1.0	1.6	1.8	32.8	2450
11	XZ1Z2Z1	7C X 4	7	0.7	0.8	1.25	1.5	19.2	900
12	XZ1Z2Z1	12C X 4	7	0.7	1.0	1.6	1.6	24.3	1450
13	XZ1Z2Z1	19C X 4	7	0.7	1.0	1.6	1.7	28.6	1985
14	XZ1Z2Z1	27C X 4	7	0.7	1.0	1.6	1.9	32.8	2570
15	XZ1Z2Z1	37C X 4	7	0.7	1.2	2.0	2.0	38.1	3525



LV POWER, SINGLE CORE, UNARMoured CABLE AS PER IEC 60502-1 (CU/PVC/PVC)

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.

CONSTRUCTION

Conductor:	Stranded (Class 2) Annealed Plain Copper Conductor to IEC 60228
Insulation:	Extruded Polyvinyl Chloride (PVC) rated 90°C
Insulation Color:	Black Other colors are available upon request.
Outer Sheath:	Extruded Polyvinyl Chloride (PVC) Type ST-2 to IEC 60502-1 in Black color. Other colors are available upon request.
Marking Text on the Outer Sheath (Example):	CU/PVC/PVC (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 - 160°C (≤300mm ²) and 160°C (>300mm ²)
Voltage Rating:	600/1000V
Voltage Withstand:	3500 V a.c. r.m.s. for 5 minutes

*Other special sheath materials are also available with Flame Retardant:- IEC 60332-1-2, IEC 60332-3-24 (CAT C), Low Smoke, UV / Sunlight Resistant, Oil Resistant, Anti-Termite, Anti-Rodent.

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	V2V2	1C X 1.5	7	0.8	1.4	6.0	60
2	V2V2	1C X 2.5	7	0.8	1.4	6.5	75
3	V2V2	1C X 4	7	1.0	1.4	7.5	100
4	V2V2	1C X 6	7	1.0	1.4	8.0	130
5	V2V2	1C X 10	7	1.0	1.4	9.0	180
6	V2V2	1C X 16	7	1.0	1.4	10.0	250

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)
7	V2V2	1C X 25	7	1.2	1.4	11.7	375
8	V2V2	1C X 35	7	1.2	1.4	12.8	475
9	V2V2	1C X 50	19	1.4	1.4	14.5	620
10	V2V2	1C X 70	19	1.4	1.4	16.5	850
11	V2V2	1C X 95	19	1.6	1.5	19.0	1120
12	V2V2	1C X 120	37	1.6	1.5	20.5	1400
13	V2V2	1C X 150	37	1.8	1.6	22.8	1720
14	V2V2	1C X 185	37	2.0	1.7	25.3	2150
15	V2V2	1C X 240	37	2.2	1.8	28.5	2775
16	V2V2	1C X 300	61	2.4	1.9	31.5	3425
17	V2V2	1C X 400	61	2.6	2.0	35.0	4325
18	V2V2	1C X 500	61	2.8	2.1	39.0	5400
19	V2V2	1C X 630	91	2.8	2.2	43.3	6925

