

INSTRUMENTATION CABLES AS PER BS EN 50288-7 (CU/XLPE/OS/PVC)

APPLICATION

Suitable for Industrial & Commercial settings for process controls, transmission of analogue / digital signals in instrument & control systems. Ideal for use in conduits, trunking, and in locations protected from physical damage.

CONSTRUCTION

Conductor:	Stranded (Class 2) Annealed Plain Copper Conductor to BS EN 60228
Insulation:	Cross linked polyethylene (XLPE)
Insulation Color:	Single Pair: Black & White Multi Pair: Black & White with number printed on each cores. Other colors are available upon request or as per BS EN 50288-7.
Pair / Triad:	Uniformly twisted insulated conductors with suitable twists per meter.
Assembly:	The required number of unscreened pairs / triads are assembled together with non-hygroscopic fillers (if required) and wrapped with a binder tape.
Overall Screen & Drain Wire:	Aluminum backed Mylar tape (25µm) (AL-PET-Foil) is applied over assembly with 100% coverage and an overlap of 25% with metal side in contact with a stranded tinned copper drain wire of size 0.5 mm ² (class 2).
Outer Sheath:	Extruded Polyvinyl Chloride (PVC) in Black colour. Other colors are available upon request.
Printing Text on the Outer Sheath:	INSTRUMENTATION CABLE CU/XLPE/OS/PVC NO OF PAIRS / TRIADS X 2 / 3 X...MM2 500 V BS EN 50288-7 TEKAB YEAR MADE IN UAE LENGTH METER MARKING



TECHNICAL DATA

Operating Temperature:	During Normal Operation - 90°C During Short Circuit Condition - 250°C
Voltage Rating:	500V
Voltage Withstand:	2000 V a.c. r.m.s. for 1 minutes
Insulation Resistance MΩ/km:	≥ 1000
Mutual Capacitance nf/km:	< 150
Inductance to resistance ratio (L/R) µH/Ω	< 25 (up to 1mm ²) < 40 (1.5 mm ²) < 60 (2.5 mm ²)

* Solid (Class-1) / Flexible (Class-5), Tinned / Thermocouple conductor can be provided upon request.

** Flame Retardant Cross linked polyethylene (FR-XLPE) can be provided upon request.

*** Screening: - Copper Tape / CU-PET tape / Braiding & any other drain wire size can be provided upon request.

**** Other special sheath materials are also available with Flame Retardant :- IEC 60332-1-2, IEC 60332-3-22 (CAT A), IEC 60332-3-24 (CAT C), Low Smoke, UV / Sunlight Resistant, Oil Resistant, Anti-Termite, Anti-Rodent.

- Construction in core formation also can be provided upon request.
- 300V or any customized voltage grade rated cables up to 600/1000V can be provided upon request.

SERIAL NO.	TEKAB CODE	NO. OF PAIRS (P) / TRIADS (T) X CONDUCTOR SIZE (No. x sq.mm)	NO. OF STRANDS	MINIMUM INSULATION THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	APPROX. WEIGHT (kg/km)
1	XA7V	1P X 0.5	7	0.44	6.0	50
2	XA7V	2P X 0.5	7	0.44	9.0	80
3	XA7V	5P X 0.5	7	0.44	11.5	140
4	XA7V	10P X 0.5	7	0.44	15.0	250
5	XA7V	12P X 0.5	7	0.44	16.0	285
6	XA7V	16P X 0.5	7	0.44	18.0	350
7	XA7V	20P X 0.5	7	0.44	20.0	450
8	XA7V	1P X 0.75	7	0.44	6.5	60
9	XA7V	2P X 0.75	7	0.44	10.0	110
10	XA7V	5P X 0.75	7	0.44	12.5	200
11	XA7V	10P X 0.75	7	0.44	16.5	325
12	XA7V	12P X 0.75	7	0.44	17.5	385
13	XA7V	16P X 0.75	7	0.44	20.0	500
14	XA7V	20P X 0.75	7	0.44	22.5	625
15	XA7V	1P X 1.0	7	0.44	7.0	65
16	XA7V	2P X 1.0	7	0.44	10.5	125
17	XA7V	5P X 1.0	7	0.44	13.5	225
18	XA7V	10P X 1.0	7	0.44	17.5	400
19	XA7V	12P X 1.0	7	0.44	19.0	475
20	XA7V	16P X 1.0	7	0.44	21.5	600
21	XA7V	20P X 1.0	7	0.44	24.0	750
22	XA7V	1P X 1.5	7	0.44	7.5	75
23	XA7V	2P X 1.5	7	0.44	11.5	150
24	XA7V	5P X 1.5	7	0.44	14.5	275
25	XA7V	10P X 1.5	7	0.44	19.0	500
26	XA7V	12P X 1.5	7	0.44	20.5	600
27	XA7V	16P X 1.5	7	0.44	23.5	775
28	XA7V	20P X 1.5	7	0.44	26.5	950

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29	XA7V	1P X 2.5	7	0.53	8.5	110
30	XA7V	2P X 2.5	7	0.53	13.5	200
31	XA7V	5P X 2.5	7	0.53	18.0	425
32	XA7V	10P X 2.5	7	0.53	23.5	775
33	XA7V	12P X 2.5	7	0.53	25.5	900
34	XA7V	16P X 2.5	7	0.53	29.0	1175
35	XA7V	20P X 2.5	7	0.53	32.5	1475
36	XA7V	1T X 0.5	7	0.44	6.5	60
37	XA7V	2T X 0.5	7	0.44	9.5	100
38	XA7V	5T X 0.5	7	0.44	12.0	185
39	XA7V	10T X 0.5	7	0.44	15.5	325
40	XA7V	12T X 0.5	7	0.44	17.0	375
41	XA7V	16T X 0.5	7	0.44	19.5	500
42	XA7V	20T X 0.5	7	0.44	21.5	600
43	XA7V	1T X 0.75	7	0.44	7.0	75
44	XA7V	2T X 0.75	7	0.44	10.5	125
45	XA7V	5T X 0.75	7	0.44	13.5	250
46	XA7V	10T X 0.75	7	0.44	17.5	450
47	XA7V	12T X 0.75	7	0.44	19.0	525
48	XA7V	16T X 0.75	7	0.44	22.0	700
49	XA7V	20T X 0.75	7	0.44	24.0	850
50	XA7V	1T X 1.0	7	0.44	7.0	85
51	XA7V	2T X 1.0	7	0.44	11.0	150
52	XA7V	5T X 1.0	7	0.44	14.5	300
53	XA7V	10T X 1.0	7	0.44	19.0	550
54	XA7V	12T X 1.0	7	0.44	20.5	650
55	XA7V	16T X 1.0	7	0.44	23.0	850
56	XA7V	20T X 1.0	7	0.44	26.0	1050
57	XA7V	1T X 1.5	7	0.44	8.0	100
58	XA7V	2T X 1.5	7	0.44	12.0	190
59	XA7V	5T X 1.5	7	0.44	16.0	385
60	XA7V	10T X 1.5	7	0.44	20.5	700
61	XA7V	12T X 1.5	7	0.44	22.5	850
62	XA7V	16T X 1.5	7	0.44	25.5	1100

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63	XA7V	20T X 1.5	7	0.44	28.5	1350
64	XA7V	1T X 2.5	7	0.53	9.5	150
65	XA7V	2T X 2.5	7	0.53	14.5	275
66	XA7V	5T X 2.5	7	0.53	19.0	575
67	XA7V	10T X 2.5	7	0.53	25.5	1100
68	XA7V	12T X 2.5	7	0.53	27.5	1300
69	XA7V	16T X 2.5	7	0.53	31.5	1700
70	XA7V	20T X 2.5	7	0.53	35.0	2100

