

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

APPLICATION

Suitable for Industrial & Commercial settings for process controls, transmission of analogue / digital signals in instrument & control systems, providing robust mechanical protection and durability.

CONSTRUCTION

Conductor:	Stranded (Class 2) Annealed Plain Copper Conductor to BS EN 60228
Insulation:	Polyvinyl Chloride (PVC) rated 90°C
Insulation Color:	Single Pair: Black & White Single Triad: Black, White & Red Multi Pair: Black & White with number printed on each cores. Multi Triad: Black, White & Red 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).
Inner Sheath:	Extruded Polyvinyl Chloride (PVC) in Black colour. Other colors are available upon request.
Armoring:	A serving of single layer of round galvanized steel wires is applied as per BS EN 10257-1.
Outer Sheath:	Extruded Polyvinyl Chloride (PVC) in Black colour. Other colors are available upon request.
Printing Text on the Outer Sheath:	INSTRUMENTATION CABLE CU/PVC/OS/PVC/SWA/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 ≥ 1000
MΩ/km:

Mutual Capacitance < 10
nf/km:

Inductance to < 25 (up to 1mm²)
resistance ratio (L/R) < 40 (1.5 mm²)
μH/Ω < 60 (2.5 mm²)

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

** PVC 70°C & PVC 105°C rated cables 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	V2A7VZ2V	1P X 0.5	7	0.44	10.5	250
2	V2A7VZ2V	2P X 0.5	7	0.44	13.5	375
3	V2A7VZ2V	5P X 0.5	7	0.44	16.0	525
4	V2A7VZ2V	10P X 0.5	7	0.44	19.5	750
5	V2A7VZ2V	12P X 0.5	7	0.44	21.0	825
6	V2A7VZ2V	16P X 0.5	7	0.44	24.0	1125
7	V2A7VZ2V	20P X 0.5	7	0.44	26.0	1300
8	V2A7VZ2V	1P X 0.75	7	0.44	11.0	275
9	V2A7VZ2V	2P X 0.75	7	0.44	14.5	425
10	V2A7VZ2V	5P X 0.75	7	0.44	17.5	625
11	V2A7VZ2V	10P X 0.75	7	0.44	22.0	1025
12	V2A7VZ2V	12P X 0.75	7	0.44	23.5	1125
13	V2A7VZ2V	16P X 0.75	7	0.44	26.0	1375
14	V2A7VZ2V	20P X 0.75	7	0.44	28.5	1575
15	V2A7VZ2V	1P X 1.0	7	0.44	11.5	300
16	V2A7VZ2V	2P X 1.0	7	0.44	15.0	450

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)
17	V2A7VZ2V	5P X 1.0	7	0.44	18.5	675
18	V2A7VZ2V	10P X 1.0	7	0.44	23.0	1125
19	V2A7VZ2V	12P X 1.0	7	0.44	24.5	1250
20	V2A7VZ2V	16P X 1.0	7	0.44	27.5	1525
21	V2A7VZ2V	20P X 1.0	7	0.44	30.0	1750
22	V2A7VZ2V	1P X 1.5	7	0.44	12.0	325
23	V2A7VZ2V	2P X 1.5	7	0.44	16.0	525
24	V2A7VZ2V	5P X 1.5	7	0.44	19.5	750
25	V2A7VZ2V	10P X 1.5	7	0.44	25.0	1350
26	V2A7VZ2V	12P X 1.5	7	0.44	26.5	1500
27	V2A7VZ2V	16P X 1.5	7	0.44	30.0	1825
28	V2A7VZ2V	20P X 1.5	7	0.44	32.5	2100
29	V2A7VZ2V	1P X 2.5	7	0.53	13.5	400
30	V2A7VZ2V	2P X 2.5	7	0.53	18.5	675
31	V2A7VZ2V	5P X 2.5	7	0.53	23.5	1150
32	V2A7VZ2V	10P X 2.5	7	0.53	29.5	1800
33	V2A7VZ2V	12P X 2.5	7	0.53	31.5	2000
34	V2A7VZ2V	16P X 2.5	7	0.53	36.0	2725
35	V2A7VZ2V	20P X 2.5	7	0.53	39.5	3200
36	V2A7VZ2V	1T X 0.5	7	0.44	11.0	275
37	V2A7VZ2V	2T X 0.5	7	0.44	14.0	400
38	V2A7VZ2V	5T X 0.5	7	0.44	17.0	625
39	V2A7VZ2V	10T X 0.5	7	0.44	21.5	1025
40	V2A7VZ2V	12T X 0.5	7	0.44	23.0	1125
41	V2A7VZ2V	16T X 0.5	7	0.44	25.5	1350
42	V2A7VZ2V	20T X 0.5	7	0.44	27.5	1550
43	V2A7VZ2V	1T X 0.75	7	0.44	11.5	300
44	V2A7VZ2V	2T X 0.75	7	0.44	15.0	500
45	V2A7VZ2V	5T X 0.75	7	0.44	18.5	700
46	V2A7VZ2V	10T X 0.75	7	0.44	23.5	1225
47	V2A7VZ2V	12T X 0.75	7	0.44	25.0	1375
48	V2A7VZ2V	16T X 0.75	7	0.44	28.0	1625
49	V2A7VZ2V	20T X 0.75	7	0.44	30.5	1925
50	V2A7VZ2V	1T X 1.0	7	0.44	11.5	325
51	V2A7VZ2V	2T X 1.0	7	0.44	15.5	525
52	V2A7VZ2V	5T X 1.0	7	0.44	19.0	775

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53	V2A7VZ2V	10T X 1.0	7	0.44	24.5	1375
54	V2A7VZ2V	12T X 1.0	7	0.44	26.0	1525
55	V2A7VZ2V	16T X 1.0	7	0.44	29.5	1850
56	V2A7VZ2V	20T X 1.0	7	0.44	32.0	2150
57	V2A7VZ2V	1T X 1.5	7	0.44	12.5	375
58	V2A7VZ2V	2T X 1.5	7	0.44	17.0	600
59	V2A7VZ2V	5T X 1.5	7	0.44	21.0	950
60	V2A7VZ2V	10T X 1.5	7	0.44	26.5	1600
61	V2A7VZ2V	12T X 1.5	7	0.44	28.5	1825
62	V2A7VZ2V	16T X 1.5	7	0.44	31.5	2225
63	V2A7VZ2V	20T X 1.5	7	0.44	35.5	2850
64	V2A7VZ2V	1T X 2.5	7	0.53	14.0	475
65	V2A7VZ2V	2T X 2.5	7	0.53	19.5	750
66	V2A7VZ2V	5T X 2.5	7	0.53	25.0	1425
67	V2A7VZ2V	10T X 2.5	7	0.53	32.5	2450
68	V2A7VZ2V	12T X 2.5	7	0.53	34.5	2750
69	V2A7VZ2V	16T X 2.5	7	0.53	38.5	3375
70	V2A7VZ2V	20T X 2.5	7	0.53	42.5	4025

