

## Technical Specification

Brief details of some of wires are provided here under. Never the less the company offers complete range of products.

S. No.	Size in AWG	No. of strands/dia of each strand (mm)	Parameters of conductor (Nominal) (As per JSS 51034)				Nominal Dia of insulated Wire		
			Dia. (mm)	Cross section (sq. mm.)	Resistance ohm/km at 20° C	Elongation (Min)	ET (250 V) AC	E (600 V) AC	EE (1000 V) AC
1.	32/7/40	7/0.08	0.24	0.0340	570.9	5.5	0.56	0.74	1.00
2.	30/1	1/0.25	0.25	0.0507	356.4	9.0	0.56	0.75	1.00
3.	30/7/38	7/0.1	0.30	0.0568	332.3	5.5	0.61	0.81	1.07
4.	28/1	1/0.32	0.32	0.0806	224.4	9.0	0.63	0.84	1.09
5.	28/7/36	7/0.13	0.38	0.0887	210.5	5.5	0.69	0.89	1.14
6.	26/1	1/0.4	0.40	0.1282	140.9	9.0	0.71	0.90	1.15
7.	26/7/34	7/0.16	0.48	0.1409	133.7	9.0	0.79	0.99	1.24
8.	26/19/38	19/0.1	0.50	0.1540	126.7	5.5	0.79	0.99	1.24
9.	24/1	1/0.5	0.50	0.2047	88.4	15.5	0.81	1.00	1.25
10.	24/7/32	7/0.2	0.60	0.2270	83.2	9.0	0.91	1.12	1.37
11.	24/19/36	19/0.13	0.63	0.2407	80.2	9.0	0.91	1.12	1.37
12.	22/1	1/0.65	0.65	0.3243	56.1	20.0	0.95	1.15	1.40
13.	22/7/30	7/0.25	0.75	0.3547	52.5	13.5	1.07	1.27	1.52
14.	22/19/34	19/0.16	0.80	0.3820	49.8	9.0	1.07	1.27	1.52
15.	20/1	1/0.8	0.80	0.5168	34.7	20.0	1.10	1.30	1.53
16.	20/7/28	7/0.32	0.97	0.5630	33.0	13.5	1.27	1.47	1.73
17.	20/19/32	19/0.2	1.00	0.6162	30.3	9.0	1.27	1.47	1.73
18.	18/7/26	7/0.4	1.20	0.8969	20.7	13.5	-	1.75	2.00
19.	18/19/30	19/0.25	1.25	0.9627	19.1	13.5	-	1.75	2.00
20.	16/19/29	19/0.29	1.45	1.2293	14.9	13.5	-	2.03	2.25
21.	16/37/32	37/0.2	1.40	1.200	15.0	13.5	-	2.00	2.20
22.	15/19/28	19/0.32	1.60	1.5272	12.5	13.5	-	2.15	2.40
23.	14/19/27	19/0.36	1.83	1.9412	9.5	13.5	-	2.42	2.69
24.	14/37/30	37/0.25	1.75	1.8886	10.0	13.5	-	2.35	2.60
25.	13/19/26	19/0.4	2.00	2.3864	7.8	13.5	-	2.60	2.85
26.	12/19/25	19/0.45	2.25	3.0848	6.0	13.5	-	2.90	3.17
27.	12/37/28	37/0.32	2.24	2.9742	6.5	13.5	-	2.85	3.12
28.	11/19/24	19/0.5	2.50	3.7287	5.0	13.5	-	3.15	3.40

29.	10/19/22	19/0.65	3.20	6.3015	3.0	-	-	3.80	4.10
30.	10/37/26	37/0.4	2.82	4.7397	3.9	13.5	-	3.40	3.68
31.	8/133/29	133/0.29	4.29	8.6054	2.2	13.5	-	5.31	5.31
32.	6/133/27	133/0.36	5.41	13.5889	1.4	13.5	-	6.68	6.68

## HV Test

Type	Spark Test (0.2 Sec)	Dielectric with stand for 1 minute
ET (250 V)	2.5 KVAC	1.5 KVAC
E (600 V)	3.4 KVAC	2.0 KVAC
EE (1000 V)	5.0 KVAC	3.0 KVAC

## Advantages

The Products have number of advantages, few of them are :

- Excellent thermal stability suitable for use from (-) 65 Deg. C To ( ) 200 Deg. C for silver plated and ( ) 260 Deg. C for Nickel plated wires.
- Suitable for very wide frequency range (DC to above 10000 MHZ) and over wide temperature range. Fire (flame) proof.
- Inert to practically all Chemicals even at elevated temperatures.
- Smaller in size, more flexible, lighter in weight and higher reliability.
- Lowest Dielectric constant (2.1). Dissipation factor (below .0003).
- Excellent flex life and totally unaffected by out door exposure to unlimited period.
- Non contamination, non-toxic and bio compatible.
- Good Mechanical strength.
- Resistance to ultra radiation and stress cracking is excellent.
- resistance to fungus and mould growth.

This graph is for Circular wire Conductor suspended in still air horizontally and where heat transfer is by convection and radiation, emissivity of surface is taken as 0.9 JL of **PTFE**

