



Nurtured from the seed of a single great idea – to adapt best technologies, Exotherm Instruments went on to pioneer the entire PTFE cable industry in India by producing High Quality PTFE wires using the cutting edge technology. Exotherm Instruments has revolutionized the PTFE wire & Cable industry over the years.



Roots of the company was founded in the year 1975 when it was a small trading firm by name B.R.Electronics merely use to buy and sell PVC wires & other electrical items. After consolidating its position in the market as a brand recognized for its reliability and transparency, company followed its success in selling best quality PTFE Insulated wires & cables. Those were the days when there were very few PTFE wire manufacturers who use to command the market. Gradually the company gained reputation throughout the nation for its consistent & reliable quality and service.

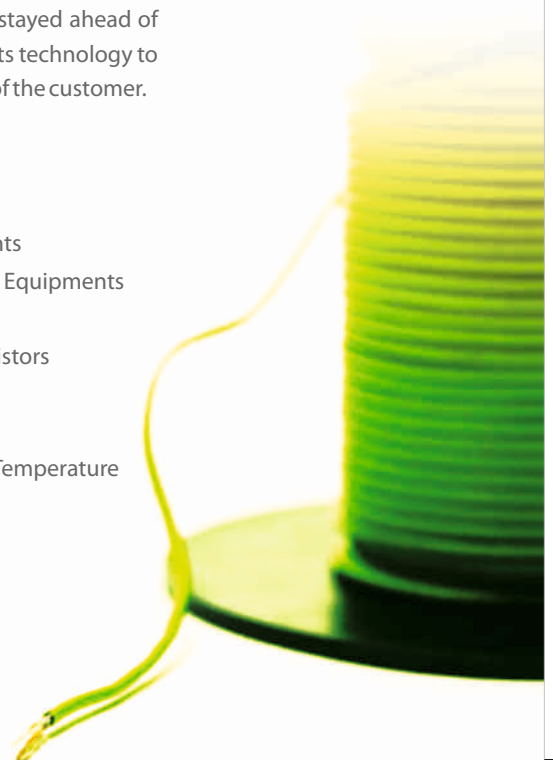
Steadily establishing itself across India, group started its own manufacturing unit in 2007 with a new

identity Exotherm Instruments & simultaneously nurtured the growth of its other businesses like Thermocouples and RTD Temperature sensors, augmenting the brands already strong Industrial presence further.

With the foresight to seize the opportunities in the domestic market, Exotherm Instruments offered its Customer optimum quality PTFE wires at rock-bottom prices. Rapidly, Exotherm Instruments became the preferred supplier for many OEMS & End users who were delighted by the quality of wires. Exotherm Instruments also stayed ahead of the curve by continually evolving its technology to meet the ever changing demands of the customer.

## Applications

- Hook up Wire for Control Panels
- Wire harness Assembly
- Motors & Transformer Lead Wires
- Batteries, UPS & Invertors
- Plenum Cables\
- Halogen Lamp Holders & lanterns
- Electric Cooker, Micro-wave Oven, Electric kettles, Air - Conditioning Equipment
- Computers, Laptops, PDA's
- Medical and Scientific Instruments
- Aircraft Wiring, Defense & Signal Equipments
- Process Instruments
- RTD, Thermocouples and Thermistors
- Sensors & Igniters
- Semiconductor & Electronics
- Oven, Furnaces and other High Temperature application



# PTFE / FEP / PFA / ETFE Insulated Wires

Sr. 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	570.9	0.56	0.74	1.00
2.	30/1	1/0.25	0.25	0.0507	356.4	356.4	0.56	0.75	1.00
3.	30/7/38	7/0.1	0.30	0.0568	332.3	332.3	0.61	0.81	1.07
4.	28/1	1/0.32	0.32	0.0806	224.4	224.4	0.63	0.84	1.09
5.	28/7/36	7/0.13	0.38	0.0887	210.5	210.5	0.69	0.89	1.14
6.	26/1	1/0.4	0.40	0.1282	140.9	140.9	0.71	0.90	1.15
7.	26/7/34	7/0.16	0.48	0.1409	133.7	133.7	0.79	0.99	1.24
8.	26/19/38	19/0.1	0.50	0.1540	126.7	126.7	0.79	0.99	1.24
9.	24/1	1/0.5	0.50	0.2047	88.4	88.4	0.81	1.00	1.25
10.	24/7/32	7/0.2	0.60	0.2270	83.2	83.2	0.91	1.12	1.37
11.	24/19/36	19/0.13	0.63	0.2407	80.2	80.2	0.91	1.12	1.37
12.	22/1	1/0.65	0.65	0.3243	56.1	56.1	0.95	1.15	1.40
13.	22/7/30	7/0.25	0.75	0.3547	52.5	52.5	1.07	1.27	1.52
14.	22/19/34	19/0.16	0.80	0.3820	49.8	49.8	1.07	1.27	1.52
15.	20/1	1/0.8	0.80	0.5168	34.7	34.7	1.10	1.30	1.53
16.	20/7/28	7/0.32	0.97	0.5630	33.0	33.0	1.27	1.47	1.73
17.	20/19/32	19/0.2	1.00	0.6162	30.3	30.3	1.27	1.47	1.73
18.	18/7/26	7/0.4	1.20	0.8969	20.7	20.7	-	1.75	2.00
19.	18/19/30	19/0.25	1.25	0.9627	19.1	19.1	-	1.75	2.00
20.	16/19/29	19/0.29	1.45	1.2293	14.9	14.9	-	2.03	2.25
21.	16/37/32	37/0.2	1.40	1.200	15.0	15.0	-	2.00	2.20
22.	15/19/28	19/0.32	1.60	1.5272	12.5	12.5	-	2.15	2.40
23.	14/19/27	19/0.36	1.83	1.9412	9.5	9.5	-	2.42	2.69
24.	14/37/30	37/0.25	1.75	1.8886	10.0	10.0	-	2.35	2.60
25.	13/19/26	19/0.4	2.00	2.3864	7.8	7.8	-	2.60	2.85
26.	12/19/25	19/0.45	2.25	3.0848	6.0	6.0	-	2.90	3.17
27.	12/37/28	37/0.32	2.24	2.9742	6.5	6.5	-	2.85	3.12
28.	11/19/24	19/0.5	2.50	3.7287	5.0	5.0	-	3.15	3.40
29.	10/19/22	19/0.65	3.20	6.3015	3.0	3.0	-	3.80	4.10
30.	10/37/26	37/0.4	2.82	4.7397	3.9	3.9	-	3.40	3.68
31.	8/133/29	133/0.29	4.29	8.6054	2.2	2.2	-	0	5.31
32.	6/133/27	133/0.36	5.41	13.5889	1.4	1.4	-	0	6.68



## PTFE / FEP / PFA / ETFE Insulated Wires

### Single Core & Multi Core Equipment Wires

Conductor	: SPC/NPC
Insulation	: <b>PTFE / FEP / PFA / ETFE Insulated Wires</b>
Properties	: Resistant to Fire, Chemicals, Acids, Sunlight, Moisture & Corona .
Type	: Single Core & Multi-Core With & Without Shielding.
Voltage Grade	: 250V / 600V / 1000V / As per customer requirement.
Temperature	: -65° C To 200° C
Standard Applicable	: JSS 51034 & MIL 16878 - D
Core Color	: All single solid color / Bi Colors As per customer requirement.
Size	: As per customer requirement



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