

# MEERUT

PTFE PRODUCTS PVT. LTD.



**PTFE Insulated Cables**  
**(LCSO APPROVED)**



## Profile

Incorporated in 1986, we, Meerut PTFE Products Pvt. Ltd., are among the prominent manufacturer, supplier and exporter of a comprehensive array of insulated electrical wires, cables & sleeves.

We are ISO 9001:2008 certified company. We are driven to create offerings that are unsurpassed in terms of quality and functionality and provide longevity of service. We have incorporated several measures in order to ensure quality of our products. Our products are designed by expert professionals by applying their keen sense and specialized knowledge, with the use of advanced technology. We have streamlined production and other processes so as to gain maximum possible efficiencies. Our organization is based on a foundation of strong principles and indulges in ethical business dealings only.

## Infrastructure

Our world class infrastructure has been instrumental for our success. It is highly equipped and has a large production capacity. We have adhered to all safety requirements while developing our infrastructure. Apart from production unit, it comprises of a research and development unit, a warehousing unit and a delivery department.



## PTFE (Poly Tetra Fluoro Ethylene)

PTFE is the most thermally stable chemically and resistant among all carbonaceous insulating compounds. It is unaffected by sunlight, moisture and practically all chemicals. Temperature range  $-65^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$  and electrical properties are very constant over temperature range and wide range frequencies. PTFE is used for both primary insulation and jackets. Because of its superior thermal properties, insulated electric wires made with, PTFE are used in electric and electronic machinery: because of the excellent property of almost absolute resistance to all commonly used chemicals it is used extensively in chemical industry : because of its non polar molecular structure it is ideal for use as high frequency insulating material and is used for manufacture of insulation covering for use in aircraft, electrical wiring small coaxial cable, industrial control cables. wrapping tapes etc. Its low abrasion and remarkable non-sticking properties prevent almost all adhesive materials from it. It plays a significant role in the petrochemical and for electronic industry and in the strategic fields of Defense. Atomic Energy, space Research and also in the filed of replacement and maintenance.





## Product Range

- PTFE Insulated Equipment hookup wires & Cables Single/Multistrand, in bi colour & Tri Colour.
- PTFE Insulated high voltage corona resistant cables upto 22 KV AC RMS/50 KV DC working.
- Single/Multicore, twisted, shielded and PTFE/PVC Jacketed Cables.
- Twin parallel Balloon wires.
- R.F. Coaxial Cable, PTFE Insulated RG-A/U type.
- Thermocouple compensating cables (IS 8784)
- Coaxial & Triaxial Cables.
- PTFE Insulated Silicon varnished Fibre Glass Jacketed cables.
- PTFE Sleeves.
- Cured PTFE tapes/sheets.



## Multicore Twisted/shielded and sheathed Cable

Single twin planetary-twisted pairs, etc. available as per customer's requirement. Insulated conductors of assorted sizes with cable can be formed into multicore cables, (with or without overall shielding), with tape wrapped Mylar, PTFE or conventional extruded PVC jackets/sheaths, complete harness as customer's requirement.

### Specifications:

- Conductor: ABC/SPC/NPC
- Insulation: PTEF Wrap Insulation
- Properties: Resistant to Fire Chemicals, Sunlight, Moisture & Corona Resistance.
- Type: Multi Core & Multi Color
- Voltage Grade: 250 V / 600 V / 1000 V
- Jacket material: PTFE or FRLS PVC
- Temperature Range: -65° C to 200° C
- Standards Applicable: JSS-51038 & MIL-W-16878 D
- Core & Jacket Color: As per customers requirement
- Size: As per customers requirement





## PTFE Single Core Hookup (Equipment) Wires

We offer Single Core Wires to our clients. It is made of premium quality copper procured from reliable vendors. These wires are resistant to fungus, mould, extreme temperatures and chemicals. Our products are highly appreciated for their mechanical strength, flexibility and eco-friendliness. We offer these with user defined specifications and at industry leading prices.

### Specifications:

•Conductor: ABC/SPC/NPC •Insulation: PTFE Wrap Insulation •Properties: Resistant to Fire, Chemicals, Acids, Sunlight, Moisture & Corona •Type: Single Core •Voltage Grade: 250 V / 600 V / 1000 V / As per customer requirement.  
•Temperature: - 65° C to + 200° C •Standard Applicable: JSS 51034 & MIL 16878 - D •Core Color: All single solid colour /Bi Colours As per customer requirement. •Size: As per customer requirement.

SL. No.	Size in AWG strand (mm)	No. of strand/ dia of each	Parameters of conductor (Nominal) (As per JSS 51034)			Elongation (Min)	Nominal Dia of Insulated wire		
			Dia. (mm)	Cross section (sq.mm.)	Resistance ohm/km at 20°C		ET (250 V) AC	E (600v) AC	EE (1000v) AC
1.	32/7/40	7/0.08	0.24	0.0340	570.9	5.5	0.56	0.74	1.0
2.	30/1	1/0.25	0.25	0.0507	356.4	9.0	0.56	0.75	1.0
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	1.25
21.	16/37/32	37/0.2	1.40	1.200	15.0	13.5	-	2.00	2.20
22.	15/19/28	19/0.36	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	13.5	-	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
32.	6/133/27	133/0.36	5.41	13.5889	1.4	13.5	-	-	6.68



## PTFE RF Co-axial Cable

Our Company manufactures superior quality Co-axial cable as per standard MIL C-17 or JSS 51100.

The Conductor used is silver plated copper weld steel Wire and the insulation in of PTFE

### Brief Specification of Co-axial Cable:

Nomenclature & Equivalent	No. of Strand/dia of each strand (mm) Type Conductor	Type of Insulation	OD (mm) (Max)	Outer Jacket material	Impedance Nom (ohms)	Capacitance (Nom) PF/Mtr	Operating Voltage (max) (Volts RMS)
RG 196 A/U	7/0.10 SCCS	PTFE	2.00 mm	PTFE	50	95.00	1000
RG 195 A/U	7/0.10SCCS	PTFE	3.80 mm	PTFE	95	52.50	1500
RG 188 A/U (RG316)	7/0.17SCCS	PTFE	2.75 mm	PTFE	50	95.00	1200
RG 187 A/U (RG179B)	7/0.10SCCS	PTFE	2.75 mm	PTFE	75	65.60	1200
RG 115 A/U	7/0.70SC	PTFE	10.00 mm	Fiberglass	50	95	5000

## PTFE Sleeves

Poly Tetra Fluoro Ethylene (PTFE) is a synthetic polymer with excellent dielectric insulation properties. We offer premium quality PTFE Sleeves at industry leading prices. It is highly resistant to fire, chemicals, acids, sunlight and moisture. In its manufacture we use best quality raw materials while the colors and dimensions are defined by our clients. Our product is durable and applicable in corrosive fluid pipelines, insulation sheathing and coated shafts.

### Specifications:

- Inner Bore Size: 0.5 mm to 40 mm • Wall Thickness: 0.25, 0.30, 0.40 & 0.80 mm • Break Down Voltage: Upto 17 KV
- Temperature Range: - 65 °C to + 200 °C • Standards Applicable: JSS 54802 / MIL - 122129 C

SL. No.	BORE		WALL THICKNESS		BREAK DOWN VOLTAGE		
	Nomial (mm)	Tolerance + (mm)	Nomial (mm)	Tolerance + (mm)	BDV	AC (K.Voltage)	RMS
1	0.50	0.10	0.25	0.05		11.5	
2	0.75	0.10	0.25	0.05		11.5	
3	1.00	0.10	0.30	0.05		14.6	
4	1.50	0.15	0.40	0.08		16.3	
5	2.00	0.15	0.40	0.08		16.3	
6	2.50	0.15	0.40	0.08		16.3	
7	3.00	0.15	0.40	0.08		16.3	
8	3.5	0.2	0.5	0.1		17.0	
9	4.0	0.2	0.5	0.1		17.0	
10	5.0	0.2	0.5	0.1		17.0	
11	6.0	0.3	0.5	0.1		17.0	
12	7.0	0.3	0.5	0.1		17.0	
13	8.0	0.3	0.5	0.1		17.0	
14	9.0	0.5	0.5	0.1		17.0	
15	10.0	0.5	0.5	0.1		17.0	
16	12.0	0.5	0.5	0.1		17.0	
17	14.0	0.5	0.5	0.1		17.0	



## PTFE Thermocouple Wires Compensating Cables

The PTFE thermocouple leads are being used for accurate temp measuring and controls, as accurate and economical way over conventional insulations. The wires may be designed & manufactured as per customers specific requirements.

### Specifications:

- Conductor: NiCr-NiAl/ Iron-Con/Cu- Con
- Temperature Range: - 65 °C to + 200 °C
- Temp. Measurement Range: Upto 1650 °C
- Standard Applicable: DIN 43722 / ANSI MC 96.1 / Bs1843& 4937 / IS8784 - 1987

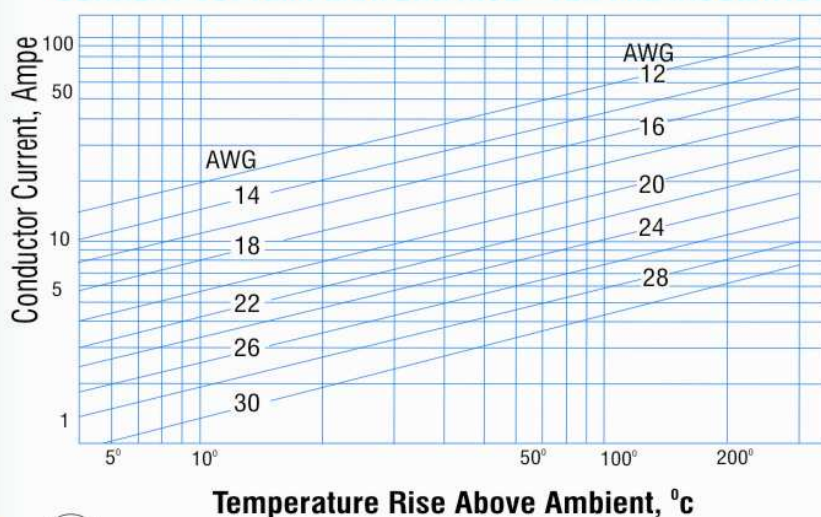


## Cured PTFE Tapes/ Sheets

An unusual, reliable non-stricking cured PTFE tape for use at high temperature slot-liner (upto 300°C). The tape offers the best possible overall electrical characteristics with complete freedom from ageing. The range of thickness is from 0.075 mm to 0.4 mm. In comparison to the unsintered PTFE tape (which is the best available sealent for threaded joints and fittings), it is about 5 to 10 times stronger mechanically. It's density is about 2.1 compared to 1.45 for unsintered/non-cured tapes.



### CURRENT VS. TEMPERATURE RISE - TEN MIL INSULATION



Circular cross sectional wire suspended horizontally in still air.  
Heat transfer by convection and radiation.

## Quality Assurance:

The Company is committed to quality by using best available material and employing them to machines with best available state of art production technology.

The Company is equipped with modern testing and quality control facilities, which are used to test \*Raw material quality.  
\*Physical and Electricals tests of final product.

The products are confirming to relevant international/JSS / MIL / C-DOT standards.



## Our Clients :

The products of the company are supplied to the following major customers :-

Bharat Electronics Ltd	VSSC
Electronics Corporation of India LTD.	Bharat Heavy Electricals Ltd.
ISRO/Shar centre Sriharikota	Larsen & Toubro Ltd.
BDL	Keltron.
Defence Research & Development Organisation	Railway Equipment Manufacturer.

## Technical Advisory Service

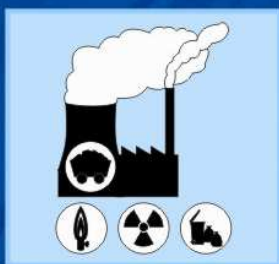
We offer you the latest solutions for your toughest problems. While describing your application/requirements please state the following.

WORKING VOLTAGE CURRENT. LONGEST INTERCONNECTION AND THE PERMISSIBLE VOLTAGE DROP IN ITS AMBIENT AND A DESCRIPTION OF THE SURROUNDING TYPE OF CENTRE CONDUCTOR PREFERRED. SHEILDING (BRAIDED OR SERVED AND TYPE OF WIRES) AND ALL OTHER RELEVANT DETAILS.

We need you functional performance requirements in preference to the dimensional wire size statements. Detailed information of the items described above is available on request.



## Applications



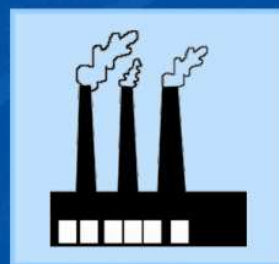
NUCLEAR  
POWER



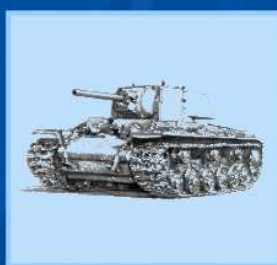
AERONAUTICS



TELE  
COMMUNICATIONS



ENGINEERING  
INDUSTRIES



DEFENCE



SPACE



CHEMICAL



**MEERUT**  
PTFE PTFE PRODUCTS PVT. LTD.

Manufacturer of PTFE (Teflon) Wire, Cables & Sleeves

Regd. Office & Works: C-2, Industrial Estate, Partapur, Meerut-UP 250 103 India

Ph.: +91 121 2440676, 77 Fax: +91 121 2440678

E-mail: [info@meerutptfe.com](mailto:info@meerutptfe.com) website: [www.ptfecable.com](http://www.ptfecable.com)