



PTFE INSULATED EQUIPMENTS WIRES, CABLES & SLEEVES

PTFE INSULATED EQUIPMENTS WIRES

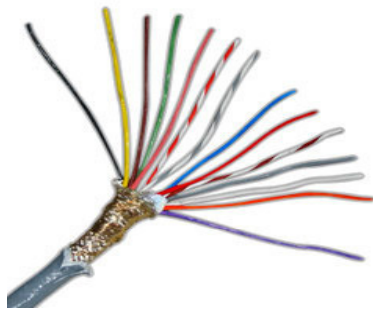


Sizes: AWG 06 to AWG 30, or as per requirements
 Voltage: 250-V, 600-V, 1000-V
 Conductor: Silver plated, Nickel Plated & bare copper wires, or as required
 Insulation: Spiral wrapped and fused PTFE Insulation.
 Temperature: -65°C to +260°C

Colours: **Red** **Yellow** **Blue** **Brown** **Violet** **Black** **White** **Orange**
Green **Grey** **Pink**

Advantages: Resistance to fire, chemicals, acids, sunlight, moisture and corona.
 Approvals: LCSO
 MFG as per: JSS-51034 (MIL-W-16878)

PTFE INSULATED MULTI CORE CABLES (Upto 66 pairs)



Conductor: Silver plated, Nickel Plated & bare copper wires, or as required
 Insulation: Spiral wrapped and fused PTFE Insulation.
 Braided / Shield: Silver plated, Nickel plated copper wires
 Jacket: PTFE / Fibreglass / Silicon PVC, or as per requirements
 Voltage: 250-V, 600-V, 1000-V
 Temperature: -65°C to +260°C

Colours: **Red** **Yellow** **Blue** **Brown** **Violet** **Black** **White** **Orange**
Green **Grey** **Pink**

Advantages: Resistance to fire, chemicals, acids, sunlight, moisture and corona.
 Approvals: LCSO
 MFG as per: JSS-51038 (MIL-W-16878)

PTFE SLEEVES



Sleeving are manufactured from PTFE tape spiral wrapped and fused process.
 Sizes: 0.50mm WT upto 9.00mm WT
 Temperature: -65°C to +260°C

Colours: **Red** **Yellow** **Blue** **Brown** **Violet** **Black** **White** **Orange**
Green **Grey** **Pink**

Advantages: Resistance to fire, chemicals, acids, sunlight, moisture and corona.
 Approvals: LCSO
 MFG as per: JSS-54082 (MIL-I-22129)

Applications:

Thermo-couple and compensating cables	Electro-medical/Neuro-surgical equipment
High temperature lighting fitting	High performance motors, Transformers and Rectifiers
Load cells and pressure transducers	Reactors and process Control, Telephone Exchange
High temperature control valves	Electronic Test Equipment
Furnace and oven wiring	Air-field lighting equipment
Infra-red sensing equipment	Research Equipment for Aerospace, Navy & Meteorology
Communication Equipment	Refrigeration equipment

Characteristics:

Operating Temperature -65°C to 200°C.	Resistance to solder iron damage.
Excellent mechanical and electrical properties	Resistance to almost all Chemicals
Corona resistance	Resistance to fire, sunlight, moisture

For More Details, Please Contact:

PETRORAYS PRODUCTS CO

Think Polymers..... Think Petrorays

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PTFE INSULATED EQUIPMETS WIRES

Size AWG	Number of Strands		Dia of conductor	Cross sectional	Max Resist of c'ductor	Current ratings	ET (250-VOLTS)		E (600-VOLTS)		EE (1000-VOLTS)	
	AWG	mm					area (mm ²)	ohms/Km @ 20°C	(amp)	Min	Max	Min
-	AWG	mm	mm	area (mm ²)	ohms/Km @ 20°C	(amp)	Min	Max	Min	Max	Min	Max
32	7/40	7/0.08	0.24	0.035	570.90	0.7	0.50	0.60	0.66	0.86	0.91	1.11
30	1/30	1/0.25	0.25	0.049	356.40	1.0	0.50	0.60	0.66	0.86	0.91	1.11
30	7/38	7/0.10	0.30	0.055	332.30	1.0	0.55	0.66	0.71	0.91	0.96	1.16
28	1/28	1/0.32	0.32	0.080	224.40	2.1	0.58	0.68	0.73	0.93	0.99	1.19
28	7/36	7/0.13	0.38	0.093	210.50	2.1	0.63	0.73	0.78	0.99	1.04	1.24
26	1/26	1/0.40	0.40	0.125	140.09	3.0	0.66	0.76	0.81	1.01	1.06	1.27
26	7/34	7/0.16	0.48	0.140	133.70	3.0	0.73	0.83	0.88	1.09	1.14	1.34
26	19/38	19/0.10	0.51	0.149	126.70	3.0	0.73	0.83	0.88	1.09	1.14	1.34
24	1/24	1/0.51	0.51	0.204	88.40	4.0	0.76	0.86	0.91	1.11	1.16	1.37
24	7/32	7/0.20	0.60	0.219	83.20	4.0	0.86	0.96	1.01	1.21	1.27	1.47
24	19/36	19/0.13	0.65	0.252	80.20	4.0	0.86	0.96	1.01	1.21	1.27	1.47
22	1/22	1/0.64	0.64	0.321	56.10	7.3	0.88	1.01	1.04	1.27	1.29	1.52
22	7/30	7/0.25	0.75	0.343	52.50	7.3	1.01	1.11	1.16	1.37	1.42	1.62
22	19/34	19/0.16	0.80	0.382	49.80	7.3	1.01	1.11	1.16	1.37	1.42	1.62
20	1/20	1/0.81	0.81	0.515	34.70	11.0	1.06	1.16	1.21	1.42	1.47	1.67
20	7/28	7/0.32	0.96	0.562	33.00	11.0	1.21	1.32	1.37	1.57	1.62	1.82
20	19/32	19/0.20	1.00	0.596	30.30	11.0	1.21	1.32	1.37	1.57	1.62	1.82
18	1/18	1/1.02	1.02	0.816	21.80	11.0	-	-	1.42	1.68	1.68	1.93
18	7/26	7/0.40	1.22	0.879	20.70	16.0	-	-	1.63	1.87	1.87	2.13
18	19/30	19/0.25	1.25	0.932	19.10	16.0	-	-	1.63	1.87	1.87	2.13
16	19/29	19/0.29	1.45	1.254	14.90	22.0	-	-	1.85	2.20	2.10	2.41
15	19/28	19/0.32	1.60	1.528	12.09	26.0	-	-	1.98	2.28	2.26	2.54
14	19/27	19/0.36	1.80	1.933	9.50	32.0	-	-	2.23	2.59	2.48	2.89
13	19/26	19/0.40	2.00	2.387	7.59	35.0	-	-	2.43	2.74	2.66	3.02
12	19/25	19/0.45	2.25	3.021	6.00	41.0	-	-	2.71	3.07	2.97	3.37
12	37/28	37/0.32	2.24	2.975	6.30	41.0	-	-	2.66	3.02	2.92	3.32
11	19/24	19/0.50	2.50	3.730	4.72	45.0	-	-	2.99	3.30	3.20	3.58
10	19/22	19/0.65	3.25	6.304	2.99	55.0	-	-	3.73	4.03	3.96	4.34
10	37/26	37/0.40	2.80	4.649	3.90	50.0	-	-	3.22	3.58	3.47	3.88
8	133/29	133/0.29	4.29	8.784	2.20	75.0	-	-	-	-	5.05	5.56
6	133/27	133/0.36	5.41	13.537	1.40	100.0	-	-	-	-	6.42	6.93

Construction:

1. Conductor: Single or multi strand conductor made up of silver or nickel plated copper or copper alloy
2. Insulation: Spiral wrapped & fused PTFE Insulation
3. Higher gauges & higher voltage wires are also available on request
4. Colours: **Red** **Yellow** **Blue** **Brown** **Violet** **Black** **White** **Orange** **Green** **Grey** **Pink**

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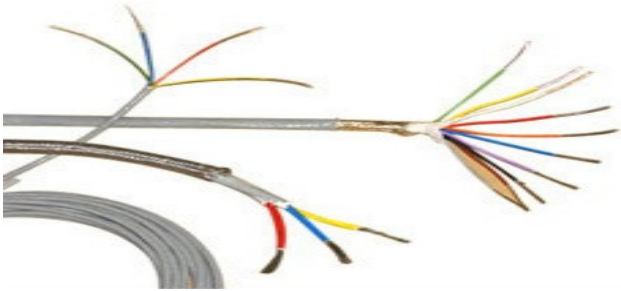
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PTFE MULTI CORE / PAIRS CABLES

PTFE Multi core cables for instrumentation & control applications are manufactured as per MIL-DTL-27500H / JSS 51038 specifications to meet specific customers requirements.

The primary wire are PTFE Insulated meeting requirements of JSS 51034 / MIL-W-16878. The cables possess all the unique electrical & mechanical properties of PTFE & are available in size from single wire screened and / or jacketed up to cable with a maximum of 66 pairs twisted and / or screened and / or jacketed as required.



DERATING FACTOR

The following table used as a guideline for derating factor in multi core cables

No.of Core	Derating Factor (x Amps)
2 - 5	0.8
8 - 15	0.7
16 - 30	0.5

Construction:

1. Conductor
2. Core Insulation: Spiral wrapped & fused PTFE tape
3. Braided shield
4. PTFE tape wrapped & fused
3. Colours: Red Yellow Blue Brown Violet Black White Orange Green Grey Pink

Applications:

Thermo-couple and compensating cables	Electro-medical/Neuro-surgical equipment
High temperature lighting fitting	High performance motors, Transformers and Rectifiers
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Characteristics:

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PTFE ELECTRICAL SLEEVINGS

Sleeving are manufactured from PTFE tape spiral wrapped & fused process

PTFE electrical sleeving meets the performance requirements of JSS 54802 / BS 2848 type 6 specifications.

INNER DIAMETER (ID) Nominal (mm)	WALL THICKNESS Nominal (mm)	APPROX WEIGHT (Grams / Meter)
0.50	0.25	1.31
0.75	0.25	1.55
1.00	0.30	2.70
1.50	0.40	4.30
2.00	0.40	5.50
2.50	0.40	6.88
3.00	0.40	11.50
3.50	0.50	13.22
4.00	0.50	15.65
5.00	0.50	19.20
6.00	0.50	24.30
7.00	0.50	28.00
8.00	0.50	32.40
9.00	0.50	36.50

Note:

1. Temperature: -65°C to +260°C
2. Resistant to attack by lubricants, Hydraulic, aircraft or rocket fuel, atmospheric conditions & virtually all chemicals.

Construction:

1. Sleeveings manufactured by PTFE tape spiral wrapped & fused process

2. Colours: Red Yellow Blue Brown Violet Black White Orange Green Grey Pink

Applications:

Thermo-couple and compensating cables	Electro-medical/Neuro-surgical equipment
High temperature lighting fitting	High performance motors, Transformers and Rectifiers
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