

Petrorays PRODUCTS Co

126/128, Nagdevi street, 2nd Floor, Mumbai - 400 003. India

Phone: (022) 6634 9695 / 2340 3706 / 2346 3492 Fax: +91 (022) 2340 3706

Email: info@chiragtechno.com www.chiragtechno.com

PRODUCTS	SPECIFICATIONS	APPROVED BY
PTFE Insulated Equipments wires Sizes: AWG 06 to AWG 30 Volts: 250-V, 600-V & 1000-V	JSS 51034 / BS3G210 (Equi to MIL-W-16878)	LC SO / DGCA / C-DOT
Multi Cores / Pair cables (Upto 66 pairs)	JSS 51038 (Equi to MIL-DTL-27500H)	LC SO
PTFE Electrical sleeveings ID: 0.50mm to 12.00mm	JSS 54802 (Equi to MIL-I-22129 / BS2848)	LC SO



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PTFE INSULATED EQUIPMENTS 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	Dia. of strands					mm	mm	area (mm ²)	ohms/Km @ 20°C	(amp)	Dia Over Insulation
-							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

Note:

1. Current shown above are for single wire in free air at a temperature rise of approx. 50°C above ambient
2. Temperature: -65°C to +260°C

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. Colours: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Pink, Natural & Bi-colours available
4. Higher gauges & higher voltage wires are also available on request

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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
5. Colours: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Pink, Natural & Bi-colours available

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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: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Pink & Natural

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All technical information & recommendations given are based on our first hand experiences. However we do not undertake any legal responsibilities for the same. The customer is advised to check infor data & results. Since the performance of a wires can be judged only through onsite evaluation.