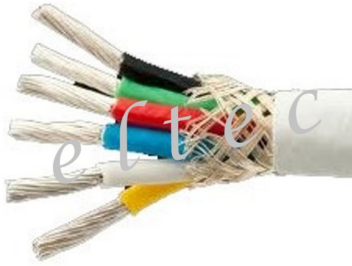


PTFE INSULATED WIRE & CABLES



PTFE Cables have outstanding mechanical & electrical properties. They are heat resistant and have its application for temperature range from **-65 °C to 260 °C**.

In most adverse industrial conditions, where chemical fumes & other liquids make all other types of cables are vulnerable, PTFE polymer becomes an excellent solution as it is chemically inert to most of industrial chemicals. Its outstanding di electric properties even at high elevated temperatures make it suitable for harsh industrial applications.

ELTEC PTFE wires conforms to US Military **MIL – W – 16878** and Indian defense specifications **JSS 51034.92**.

As per these standards, PTFE wires are classified in three main working voltage grades.

GRADE	SPARK TESTING	DIE ELECTRIC TESTING
ET (250 V)	2500 V AC	1500 V AC
E (600 V)	3400 V AC	2000 V AC
EE (1000 V)	5000 V AC	3000 V AC

APPLICATIONS	PRODUCT FEATURES
<ul style="list-style-type: none"> Hook up wires for high temperature panels Equipment for Aircraft, Defense, Satellite & Radar High Performance Motors, Transformers & Rectifiers Wire Harness assembly 	<ul style="list-style-type: none"> Continuous use up to 260 °C Intermittent use up to 300 °C High dielectric values resulting in excellent space & weight saving Inert to most chemicals & fluids even at elevated temperature & pressure
<ul style="list-style-type: none"> Electronics & Communication Equipment Process Instrumentation 	<ul style="list-style-type: none"> Unaffected by oils, lubricants & hydraulic fluids Non flammable, non toxic, resistant to solder iron damage
<ul style="list-style-type: none"> Medical & Scientific Instruments Sensors, Load Cells & Pressure Transducers Wiring for Heaters, Ovens & Furnace Thermocouple & RTD Cables 	<ul style="list-style-type: none"> Suitable for high frequency operation Immune to agene, fungus & water absorption Resistance to UV resistance & stress creaking High strain & abrasion resistance

PRODUCT SPECIFICATIONS:

Conductor	Soft Annealed silver plated or nickel plated copper wires as per MIL – 16878D. Refer Table
Core Insulation	Spirally Wrapped PTFE Tape and Sintered
No. of core	Single or Multi core
Construction	Twisted for Multi core cables
Outer Sheath	Spirally Wrapped PTFE Tape and Sintered
Screening	Silver Plated Copper wire or SS Wire



ELTEC CABLES & INSTRUMENTS

16, Bhaktinagar Station Plot, Rajkot-360 002. INDIA.

Tel. : +91 281 2480400 URL : www.thermocouplewire.co.in

E-mail : eltecinc@gmail.com | sales@thermocouplewire.co.in



EMPOWERING PROCESS MANAGEMENT



WIRE SIZE AS PER MIL – W- 16878 / NEMA HP-3

Size In AWG	No. of Strands Dia. of each Strand in mm	Cross Sectional Area of Conductor in mm	Conductor Dia. (Nom.) In mm	Conductor Resistance (D.C) per 1000 Mtr. At 20 °C in Ohms (Max)	Elongation % (Min)	Over all diameter of Insulated wire in mm						Max. Current Rating In Amps.
						For 250 V AC Grade OR 'ET'		For 600 V AC Grade OR 'E'		For 1000 V AC Grade OR 'EE'		
						(Min)	(Max)	(Min)	(Max)	(Min)	(Max)	
32(1)	1/0.20	0.0324	0.200	557.7	5.5	-	-	0.64	0.86	0.86	1.07	-
30(1)	1/0.25	0.0507	0.250	356.4	9.0	0.51	0.61	0.67	0.86	0.91	1.12	2.0
28(1)	1/0.32	0.0806	0.320	224.4	9.0	0.58	0.69	0.74	0.94	0.99	1.19	3.0
26(1)	1/0.40	0.1282	0.400	140.9	9.0	0.66	0.76	0.81	1.02	1.07	1.27	4.0
24(1)	1/0.51	0.2047	0.510	88.4	15.0	0.76	0.86	0.91	1.12	1.17	1.37	5.0
22(1)	1/0.64	0.3243	0.640	56.1	20.0	0.86	1.02	1.04	1.27	1.30	1.52	6.0
20(1)	1/0.81	0.5168	0.810	34.7	20.0	1.07	1.17	1.22	1.42	1.47	1.68	8.0
30(7/38)	7/0.10	0.0568	0.310	332.3	5.5	0.56	0.66	0.71	0.91	0.97	1.17	3.0
28(7/36)	7/0.13	0.0887	0.380	210.5	5.5	0.64	0.74	0.79	0.99	1.04	1.25	3.5
26(7/34)	7/0.16	0.1409	0.480	133.7	9.0	0.74	0.84	0.89	1.09	1.14	1.35	4.0
24(7/32)	7/0.20	0.2270	0.610	83.2	9.0	0.86	0.97	1.02	1.22	1.27	1.47	6.0
22(7/30)	7/0.25	0.3547	0.760	52.5	13.5	1.02	1.12	1.17	1.37	1.42	1.63	7.0
20(7/28)	7/0.32	0.5630	0.970	33.0	13.5	1.2	1.32	1.37	1.58	1.63	1.83	9.0
18(7/26)	7/0.40	0.8969	1.220	20.7	13.5	-	-	1.63	1.88	1.88	2.13	15.0
26(19/38)	19/0.10	0.1540	0.510	126.7	5.5	0.74	0.84	0.89	1.09	1.14	1.35	4.0
24(19/36)	19/0.13	0.2407	0.640	80.2	9.0	0.86	0.97	1.02	1.22	1.27	1.47	6.0
22(19/34)	19/0.16	0.3820	0.810	49.8	9.0	1.02	1.12	1.17	1.37	1.42	1.63	7.0
20(19/32)	19/0.20	0.6162	1.020	30.3	9.0	1.22	1.32	1.37	1.58	1.63	1.83	9.0
18(19/30)	19/0.25	0.9627	1.270	19.1	13.5	-	-	1.63	1.88	1.88	2.13	15.0
16(19/29)	19/0.29	1.2293	1.450	14.9	13.5	-	-	1.85	2.21	2.11	2.41	18.0
15(19/28)	19/0.32	1.5272	1.600	12.5	13.5	-	-	2.00	2.23	2.20	2.42	21.0
14(19/27)	19/0.36	1.9412	1.830	9.5	13.5	-	-	2.24	2.59	2.49	2.90	23.0
12(19/25)	19/0.45	3.0848	2.310	6.0	13.5	-	-	2.27	3.07	2.97	3.38	35.0
11(19/24)	19/0.50	3.7320	2.500	5.0	13.5	-	-	2.91	3.26	3.16	3.56	40.0
10(19/22)	19/0.64	6.1147	3.200	3.0	13.5	-	-	-	-	3.86	4.26	45.0
16(37/32)	37/0.20	1.2000	1.400	15.0	13.5	-	-	1.90	1.95	1.90	2.25	18.0
14(37/30)	37/0.25	1.8886	1.750	10.0	13.5	-	-	2.25	2.37	2.35	2.65	25.0
12(37/28)	37/0.32	2.9742	2.240	6.5	13.5	-	-	2.79	2.89	2.84	3.22	33.0
10(37/26)	37/0.40	4.7397	2.820	3.9	13.5	-	-	3.23	3.58	3.48	3.89	43.0
08(133/29)	133/0.29	8.6054	4.290	2.5	13.5	-	-	-	-	5.06	5.56	50.0
06(133/27)	133/0.36	13.5889	5.410	1.4	13.5	-	-	-	-	6.20	6.93	60.0
04(133/25)	133/0.45	21.5900	6.750	1.2	13.0	-	-	-	-	7.75	8.40	75.0
02(133/23)	133/0.57	33.9514	8.550	-	13.0	-	-	-	-	9.75	10.70	100.0
0(133/21)	133/0.71	52.7749	10.650	-	-	-	-	-	-	11.85	12.80	135.0



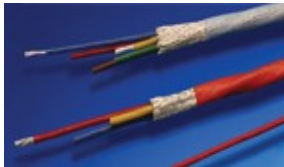
PTFE INSULATED HOOK UP WIRE:

*ELTEC PTFE Insulated hook- up wires are used extensively for both electrical and electronic equipments. Hook- up wires are required to perform in increasingly critical environments. Cost effective production methods necessitate uniform wire handling characteristics, such as **strip ability, strand uniformity, precise dimension and permanent colors.***



PTFE INSULATED POWER CABLES:

*ELTEC PTFE Insulated Power Cables are used for critical high temperature Industrial applications near boilers, furnaces, ovens etc. in processing plants. PTFE wires normally come with **silver plated copper wire conductors (190°C) or nickel plated copper wire conductors (260°C on request).***



PTFE INSULATED INSTRUMENTATION CABLE

ELTEC PTFE Instrumentation Cable products are used for signal and energy transmission with minimum interference, and they are sunlight, heat, and moisture resistant means they can survive in some of the toughest conditions.



PTFE INSULATED MULTICORE SHIELDED CABLE

ELTEC PTFE Insulated Multi Core Shielded cables are specially designed for its application in electronics & communication equipments, Various equipments for satellite, defense, Radar & Space applications.



PTFE INSULATED RTD CABLE

ELTEC PTFE Insulated RTD CABLES are generally used to transmit signal from RTD sensor to control unit.

Multi stranded SPC conductors are used and are available in 2 core 3 core, 4 core, 6 core, 8 core or even more as per requirement. They are further SPC shielded or outside SS Metal braided as per requirement.



PTFE INSULATED THERMOCOUPLE CABLE

*THERMOCOUPLE CABLES are used to transmit signal from Thermocouple sensor to control unit. **J, K, T, E, N, R, S etc. type of Thermocouple & Extension grade cables.** They are available in flat & twisted pair construction. They can be further shielded or outside SS Metal braided as per requirement.*

CERTIFICATIONS:



Certificate of Registration

This is to certify that

Eltec Cables & Instruments

16, Bhaktinagar Station Plot, Rajkot - 360002 (Gujarat), India.

has been assessed by RICL and found to comply with the requirements of

ISO 9001 : 2015 Quality Management System

For the following activities:

Manufacturer and Exporter of Thermocouple Wires & Cables, RTD Cables, Instrumentation Cables, High Temperature PTFE, Fiber Glass Wires & Cables, Temperature Sensors such as Thermocouple, RTD PT 100 & Thermowell.

This Certificate is Valid from 13/01/2020 Until 12/01/2021

Date of Initial Certification: 13/01/2020
1st Surveillance on or before: 12/12/2020
IInd Surveillance on or before: 12/12/2021
Certification Valid Until: 12/01/2023

Certificate No.:
20RQ01AH



Director

Royal Impact Certification Ltd.

Certificate details entered into JAS-ANZ register on 13/01/2020

623, Tower-B, iTHum, Plot No. A - 40, Sector - 62, Noida 201301, India.
www.isointernational.org, info@isointernational.org
Phone : +91 120 4113893

This Certificate can be verified at: www.isointernational.org and www.jas-anz.org



www.jas-anz.org/register

This Certificate remains the property of Royal Impact Certification Limited. Must be returned on request or if certificate is withdrawn. Validity of this certificate is subject to successful surveillance audits. RICL is accredited by JAS-ANZ. URL of Joint Accreditation System of Australia & New Zealand- www.jas-anz.org/register



EMPOWERING PROCESS MANAGEMENT



CERTIFICATIONS:

PRODUCT CERTIFICATE
EC Attestation of Conformity

PROGRESSIVE

ELTEC CABLES & INSTRUMENTS
Address : 16, BHAKTINAGAR STATION PLOT, RAJKOT - 360002, GUJARAT - INDIA.

In compliance with Directive
LVD/HVD - 2004/108/EC, 94/9/EC, 2006/95/EC, 2006/42/EC

For the following product
THERMOCOUPLE WIRES, RTD CABLES, INSTRUMENTATION CABLES, HIGH TEMPERATURE PTFE, FIBER GLASS WIRES & CABLES, TEMPERATURE SENSORS THERMOCOUPLE, RTD PT 100.

In accordance with TCF No. CE/01

The present certificate exclusively refers to the product above identified, in accordance to TCF submitted in PICL. Any Changes or modification implemented on the mentioned Product will not be covered by this certificate.

Registration No. PICL/CE/10168896
Certificate Issue Date: 22.10.2016
1st Surveillance: 10.2017
2nd Surveillance: 10.2018

Certificate Expire Date: 21.10.2021
4th Surveillance: 10.2020
3rd Surveillance: 10.2019

Rameng
Head of Certificate

CE

This Certificate of Registration is granted subject to the Regulations approved by the Board. **PROGRESSIVE INTERNATIONAL CERTIFICATIONS LTD.**
Office 4, 219, Kensington High Street, Kensington, London, W8 6BD, England.
E-mail: info@picluk.com, Website: www.picluk.com
For current validity of this certificate. Please visit our website

Certificate of Registration

PROGRESSIVE

The Governing Board of Progressive International Certifications Limited hereby grant to:

ELTEC CABLES & INSTRUMENTS
Address to which this Certificate refers:
16, BHAKTINAGAR STATION PLOT, RAJKOT - 360002, GUJARAT - INDIA.

RoHS
(Directive - 2011/65/EU)

The certificate of compliance is based on a test procedure or an evaluation of the above-mentioned product. This is to certify that the above-mentioned product is in compliance with the RoHS Directive (2011/65/EU) of the European Parliament and Commission Decision on the Restriction of the certain Hazardous Substances (Lead (pb), Mercury (Hg), cadmium (Cd), hexavalent chromium (Cr), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs)) in Electrical and Electronic equipment

Approved Scope to which this Certificate refers
THERMOCOUPLE WIRES & CABLES, RTD CABLES, INSTRUMENTATION CABLES, HIGH TEMPERATURE PTFE, FIBER GLASS WIRES & CABLES, TEMPERATURE SENSORS THERMOCOUPLE, RTD PT 100.

Certificate No.: PICL/ROHS/031778354
Certificate Issue Date: 02.03.2017
1st Surveillance: 03.2018

Certificate Expire Date: 01.03.2020
2nd Surveillance: 03.2019

Rameng
Head of Certificate

This Certificate of Registration is granted subject to the Regulations approved by the Board. **PROGRESSIVE INTERNATIONAL CERTIFICATIONS LTD.**
Flat no. 03, Sector 21 Khandigra, Ram Mumbai - 410216, India.
Ph: +91 8060091139, E-mail: info@progressiveintl.com, Website: www.progressiveintl.com
For current validity of this certificate. Please visit our website

USE OF ACCREDITATION MARK INDICATES ACCREDITATION IN RESPECT OF THE ACTIVITIES COVERED BY ACCREDITATION INSTITUTE ASSESSMENT BODY (EUROPE) CERTIFICATION NUMBER 005



ELTEC CABLES & INSTRUMENTS

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