

Thermo Cables



Offshore Cable Solutions



Global Expert In Speciality Cables Manufacturing

Thermo Cables is a recognized and preferred brand across various industries including Oil & Gas, Railways, Navy, Defence, Renewable Energy, Nuclear Power, Process Industries, Power etc, exporting 60% of products. Established in 1990, it is a leading manufacturer of various types of speciality cables. Thermo Cables is a part of Thermo Group - a multi-product & multi-service organization with other group companies: Thermopads: A specialist in Commercial, Domestic and Industrial Heating Thermosystems: An EPC company in the field of Fuel Oil Handling Systems, Fire Detection Protection Systems etc.



Major Approvals

ADNOC - OFFSHORE
ADNOC - ONSHORE
ALBA
AP GENCO
AP TRANSCO
ARO DRILLING
AVANT GARDE
BALTIC CHEMICAL PLANT
BAPCO ENERGIES
BDL, BEL, BEML, BHEL, BLW
BOROUGE, BPCL
CLW, CMRL, CSL
DESEIN LTD, DGMS, DVC
DLW, DMDE & DMW
DLRL, DMRL & DMRC
DOLPHIN ENERGY
DRDO - ASL & DRDL
DUBAI WORLD
EGA
ENGINEERS INDIA LTD
ENOC
EXPRO
FICHTNER CONSULTING
GRSE, GSPC
GOA SHIPYARD
HALLIBURTON
HINDUSTAN SHIPYARD
HPCL, HAL, HMRL
INTERNATIONAL MARITIME INDUSTRIES
IOCL, ICF, ISRO
JACOB'S H & G
KNPC - KUWAIT
KOC - KUWAIT
LAMPRELL
L & T
MATERIAL ORGANISATION - KARWAR
MATERIAL ORGANISATION - MUMBAI
MATERIAL ORGANISATION - VIZAG
MECON, MCF
MN DASTUR & CO.
MAZGOAN DOCK LIMITED
MUMBAI PORT TRUST
NMDC ENERGY
NORTH OIL
NPCIL, NSTL, NTPC
ONGC
ORLEN
OXY
PDIL
PGCIL
PDO OMAN, PETRONAS
PETROPERU
QATAR ENERGY, QATAR PETROLEUM
RCF
SABIC
SAIL
SAIPEM
SAPURA ENERGY
SHELL, SONATRACH
TATA CONSULTING ENGINEERS
TECNIMONT ICB LTD
TOYO ENGINEERING INDIA LTD
THYSSENKRUPP

Stringent quality requirements, global standards of precision and increasingly demanding customers are the order of the day. Thermo Cables, sensitive to this reality, designs, manufactures and supplies a wide range of cables to satisfy customers' specifications and requirements.

Product Range

- ▼ Instrumentation Cables
- ▼ Power, Control & Earthing Cables
- ▼ Thermocouple Cables
- ▼ Fire Resistant Cables
- ▼ High Temperature Cables
- ▼ Foundation Fieldbus Cables
- ▼ Special Application (LFH) Cables
- ▼ Renewable Energy Cables
- ▼ Naval Application Cables
- ▼ Marine/Shipboard Cables
- ▼ Pressure Tight (PT) Cables
- ▼ Railway Cables
- ▼ Material Handling Cables
- ▼ Type-P Cables
- ▼ VFD Cables
- ▼ Co-Axial Cables (RG Series)
- ▼ ESP Cables
- ▼ Downhole (TEC) Cables
- ▼ Custom Wiring & Cable Harnesses
 - Railway
 - Defence
 - Wind
- ▼ IV Coupler & Jumper Cable Assembly
- ▼ Cable Systems

Why Us

- ◆ Leading & reputed manufacturer of Specialty Cables
- ◆ One stop solution for all Low Voltage Cables
- ◆ Serving satisfied customers since 30 years across 60+ countries
- ◆ In-house wire drawing, compounding, Electron beaming and testing facilities
- ◆ Quick response time and offer submission in less than 24 hours

Standards

- ◆ Cables designed and manufactured conforming to various National and International Standards

General Cables: ANSI MC 96.1, BS-6346, BS-5467, BS-7629, BS-6387, BS-7846, BS-5308-I & II, BS- 50288-7, IEC-60502-I, IEC-60189-I & II, IEC-60228, IEC-60584-I & III, IEC-60331, IS-8784, IS-613, IS-694, IS-1554-I, IS-7098-I, BS 16246, BS 7211.

Railway Cables: ELRS-0019 REV-4, CLW-0458 ALT-E, CLW-0459 ALT-C, EDTS - 132 REV - C, EDPS - 179, EDPS - 304, EN - 50264 - 3 - 1 & 2, EN - 50306 - 1, 2, 3 & 4, EN - 50382 - 1 & 2, EN - 45545 - 2, IEC 61156 - 6.

Navy & Marine Cables: EED 50-12 REV-3, EED 50-13 REV-2, DEF STAN 61-12 PART 18, DEF STAN 61-12 PART 31, DEF STAN 02-526, DEF STAN 02-527, MIL - DTL-24640C, MIL - DTL 24643C, IEC 60092 - 350, 353, 376 & 360, BS 6883, BS 7917, IS 9968 Part -I, IS 6380, EN 50525 - 2 - 11 - 12 - 21 - 22 - 41 - 42, EN 50618.

Mining Cables: IS 14494, **Co-Axial Cables:** MIL - DTL - 17H,

High Temperature / Aerospace Cables: JSS 51034, 51038, SAE-AS 22759 / 32A, 34B, 41B, 43B, 44A, 45A, 80D, 83E, 84E, 85E, 86E, 87E, 88E, 89E, 90D, 91D, 92D, ANSI / NEMA - WC - 27500

Quality & Reliability

- ◆ An ISO 9001: 2015 certified company with proven track record of delivering quality products
- ◆ NABL accredited full-fledged in-house testing laboratory
- ◆ Environment, Occupational Health and Safety Systems adhering to ISO 14001:2015, 45001:2018
- ◆ 15% of power consumption sourced through in-house generated renewable energy

Valuable Assets

- ◆ Over 3,00,000 sq ft of infrastructure facilities with latest technology
- ◆ 1000+ dedicated & high performing workforce
- ◆ Experienced & professional leadership team
- ◆ Offers technical support in cable selection through SAP

Electrical Submersible Pump (ESP) Cables

High, medium & low temperature flat & round cables are 3 KV, 4 KV & 5 KV rated for operating temperatures up to 450° F, 284° F, 205° F & 160° F.

Sizes : 1, 2, 4, 6 AWG & other sizes and KV ratings available upon request

Application : Downhole extraction systems are critical for crude oil extraction. The reliability of the electrical power supply to an Electrical Submersible Pump (ESP) system depends on the performance and reliability of the power feed through the wellhead, power cable, motor lead cable, pig tail connectors and related equipment such as the pump and motor. These cables offer an efficient, rugged and easy to handle solution that delivers reliable performance in a package that is straight forward to install and maintain.

Construction : - Solid or stranded plain or tinned copper conductor
 - Proprietary PP / EPDM rubber insulation with a poly-adhesive layer to the conductor
 - Lead Sheath (applicable only for SL.No 4,12 & 14 from the below table).
 - HDPE / EPDM / Nitrile Rubber
 - Longitudinally applied rubber backed fabric / PTFE
 - Galvanized steel armour

SL. No	Rated	Cable Construction	Voltage	Conductor	Conductor	Insulation	Barrier Material	Tape	Jacket Material	Standard
	Temp. °F (°C)		Rating KV	Size (AWG)	Coating	Material				Armor
1	160(71)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	PP	NA	Rubber Backed Woven Fabric	HDPE	Galvanized
2	205(96)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	PP	NA	Rubber Backed Woven Fabric	Nitrile Rubber	Galvanized
3	205(96)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	PP	NA	Rubber Backed Woven Fabric	Nitrile Rubber	Galvanized
4	250(121)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	PP	Lead Sheath	Rubber Backed Woven Fabric	Nitrile Rubber	Galvanized
5	250(121)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	PP	NA	Rubber Backed Woven Fabric	Nitrile Rubber	Galvanized
6	284(140)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	EPDM	NA	Rubber Backed Woven Fabric	Nitrile Rubber	Galvanized
7	284(140)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	EPDM	NA	Rubber Backed Woven Fabric	Nitrile Rubber	Galvanized
8	300(148)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	EPDM	NA	Special Heat Resistant tape	EPDM	Galvanized
9	300(148)	Flat/Round	3,4,5	1,2,4,6	Bare/Tin	EPDM	NA	Special Heat Resistant tape	EPDM	Galvanized
10	400(204)	Flat/Round	3,4,5	1,2,4,6	Bare	Polyimide Tape / EPDM	NA	Special Heat Resistant tape	EPDM	Galvanized
11	400(204)	Flat/Round	3,4,5	1,2,4,6	Bare	Polyimide Tape / EPDM	NA	Special Heat Resistant tape	EPDM	Galvanized
12	450(232)	Flat/Round	3,4,5	1,2,4,6	Bare	Polyimide Tape / EPDM	Lead Sheath	Special Heat Resistant tape	EPDM	Galvanized
13	450(232)	Flat/Round	3,4,5	1,2,4,6	Bare	Polyimide Tape / EPDM	NA	Special Heat Resistant tape	EPDM	Galvanized
14	450(232)	Flat/Round	4,5	2,4,6	Bare	Polyimide Tape / EPDM	Lead Sheath	Special Heat Resistant tape	EPDM	Monel

NOTES : 1. Materials and specifications are subject to change without notice. 2. Jacket is not applicable for Flat cable construction

Downhole Tubing Encapsulated Conductor (TEC) Cables

These cables are used in the Oil and gas refineries, Oil well monitoring, Powering downhole equipment and instrumentation, Underground power distribution, Pressure sensing equipment & Data collection etc.

They are used to monitor, provide power and transmit signals in a downhole application. Cables used in the oil & gas industry must be able to withstand extreme environments, temperatures and pressure which is why Thermo Cables is the choice of industry professionals.

TEC (Tubing Encapsulated Conductor) cables have the traditional characteristics of stranded wires or cables – they have some form of copper conductor surrounded by an insulation material or jacket. The difference comes when the stranded wire or the tubing layer that surrounds the product with an armored metal component. Lastly, the final layer encapsulates the entire cable. TEC tubing encapsulated cables can withstand temperature ranges from 150° C to 300° C.

These are made with 5 layers and can be constructed with the following materials:

Conductor Layer	: can be comprised of 20 AWG to 12 AWG, solid or stranded, bare copper, tinned copper, nickel plated copper, or silver plated copper.
Insulation Layer	: can be comprised of either FEP, PFA, ETFE or ECTFE.
Extruded Filler Layer	: can be comprised of PFA, FEP or Polypropylene.
Armor Layer	: can be comprised of 316L Stainless Steel, Alloy 825 or Alloy 625
Final Layer	: an encapsulation layer can be comprised of FEP, PFA, ETFE, Polyolefin, Polyamide.

Cables Specification:

Voltage Rating V DC	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Conductor Gauge (AWG)	18	16	18	16	18	16	18	16	18	16	18	16		
Conductor Type	Solid or Stranded													
Conductor Coatings	Bare, Tinned, Nickel Plated, Silver Plated													
Insulation	ETFE, ECTFE, FEP, PFA													
Filler	Polypropylene, FEP, PFA													
Armor Type	316L, Alloy 825, Alloy 625													
Max. Conductor Resistance Ohms/KFT 20° C	7	4.4	7	4.4	7	4.4	7	4.4	7	4.4	7	4.4		
Max. Conductor Resistance Ohms/KFT 150° C	10.5	6.5	10.5	6.5	10.5	6.5	10.5	6.5	10.5	6.5	10.5	6.5		
Capacitance pF/ft 20° C	26	27.2	32	29.3	36	34.9	26	27.2	32	29.3	36	34.9		
Capacitance pF/ft 150° C	27.5	30.9	33.5	33.3	40.8	39.7	27.5	30.9	33.5	33.3	37.5	39.7		
Min. Insulation Resistance Mohms/KFT	6500	15000	6500	15000	6500	15000	6500	15000	6500	15000	6500	15000		
Cable Type	Polyolefin	Polyamide	ETFE		FEP		PFA							
Cable Color	Yellow	Black	Blue		Natural									
Max. working temperature, degC (degF)	150 (302)			175 (347)			200 (392)		250 (482)		300 (572)			
Min. storage and transportation temperature, degC (degF)	-48 (-54)			-100 (-148)			-110 (-166)							



Marine / Shipboard Cables

DEF STAN 02-526 (NES 526) and DEF STAN 02-527 (NES 527)

For use on onboard surface ships, submarines and crafts for power, control, lighting and communication and instrumentation circuits with or without fire survival characteristics.

Standards	: NES 526 - Dual layer Insulated, Electron Beam Cross linked irradiated Electric cables NES 527 - Fire Survival, High Temperature, Fire retardant Halogen Free Sheathed Electron Beam Cross linked irradiated Electric cables
Construction	: Single Core, Multi Core, Multi Pair & Triad, Unscreened or Individually Screened or Collectively Screened.
Voltage Grade	: 440 V AC
Conductor	: Circular Electroplated, Annealed Tinned Copper
Temperature Range	: - 30 ⁰ C to + 105 ⁰ C
Insulation	: Dual Layer Electron Beam Cross linked irradiated materials / Silicone Rubber
Screening	: Annealed Tinned Copper Braid
Outer Sheath	: Electron Beam Cross linked irradiated LFH Compound
Protective Barrier	: Glass Braid/Lacquer, Mica Glass Tape to meet the fire performance applicable for DEF STAN 02-527 (NES 527) cables.

IEC 60092-350, 353, 360 & 376, BS-6883, BS-7917

For use in shipboard & offshore application at marine environment and use for Power, Control, Instrumentation and Communication with or without fire survival characteristics.

Standards	: IEC 60092-350 - Construction & Test methods of Power, Control and Instrumentation cables IEC 60092-353 - Power Cables for rated voltage of 1 kV & 3 kV IEC 60092-376 - Control & Instrumentation Cables for rated voltage of 150 V / 250 V IEC 60092-360 - Insulating and sheathing materials for shipboard and offshore cables. BS 6883 - Elastomeric insulated Cables for fixed wiring in ships & offshore units. BS 7917 - Elastomeric insulated fire resistant (Limited Circuit Integrity) Cables for fixed wiring in ships & offshore units.
Construction	: Single Core, Multi Core, Single Pair, Multi Pair, Multi Triad and Quad Screened & Unscreened, Armoured & Unarmoured
Voltage Grade	: 150 V / 250 V AC, 0.6 / 1.0kV and 1.8/3.0kV AC
Conductor	: Electroplated Annealed Bare / Tinned Copper of various classes
Temperature Range	: -15 ⁰ C to 95 ⁰ C
Insulation	: XLPE / EPR / HEPR, HF 90 / S 95
Screening	: Al-Mylar Tape along with Drain Wire / ABC or ATC Braiding
Inner Sheath	: SHF1 / SHF2 / SH / SF
Braid Armour	: Copper (Bare or Tinned) / Copper alloy (Bare or Tinned) / GI Wire Braid with >90% coverage.
Outer Sheath	: SHF1 / SHF2 / SH / SF



High Temperature Cables

High temperature cables are used in areas where both working temperatures and ambient temperatures are too high. They are made with a wide range of conductors, insulating materials and screening materials depending on the temperatures and conditions under which the cable has to perform.

Single Core high temperature hook-up wires & Multi Core / Multi Pair, Screened & Unscreened and Armoured & Unarmoured Cables

Construction	: Single Core or Multi Core / Pairs
Voltage Grade	: 250 V AC, 600 V AC & 1000 V AC (Rating as per MIL-16878, VDE, DIN, JSS)
Conductors	: Annealed Bare copper (up to 200° C) / Annealed tinned copper conductor (up to 180° C) Annealed silver plated copper conductor (up to 200° C) Nickel plated conductor (up to 260° C)

Insulation

Insulation Material	Temperature Range	Characteristics
PTFE	- 200° C to 260° C	Excellent chemical resistance. High temperature stability
FEP	- 200° C to 200° C	Good chemical resistance Thin wall insulation due to good electrical properties
PFA	- 200° C to 250° C	Good chemical resistance, Thin wall insulation due to good electrical properties. Good flexibility
PTFE	- 150° C to 150° C	Mechanically tough
XL ETFE	- 150° C to 200° C	Good electric insulation, radiation resistance, ARC tracking and cold flow
PEEK	- 160° C to 250° C	Mechanically very tough High temperature and radiation resistance
Kapton Tape	- 250° C to 300° C	Very thin wall insulation. High temperature resistance
Silicon Rubber	- 40° C to 180° C	Flexible and abrasion resistance
Ceramic Yarn / Quartz Yarn Braiding	600° C	Chemically stable and higher thermal resistance
Special High Temperature Yarn	1000° C	Superior resistance to temperatures. excellent resistant against radiant heat.

Screening

- : Individual and / or overall with following options
 - Aluminum Mylar / Copper Tape with Tinned Copper Drain Wire
 - Braided with Bare or Tinned or Nickel Plated or Silver Plated Copper

Armouring

- : Steel galvanized wire, stainless steel wire, high strength steel wire braiding

Standards

- : JSS-51034, JSS-51038, UL-1581

Industry & Applications

Complete In-house expertise & facilities to provide the entire range of High Temperature Insulations

Steel / Cement : Cables for blast furnace, electric arc furnace, hot & cold rolling mills, steel refining facilities etc.

Communication : High frequency co-axial cables for VHF, UHF and SHF transmission

Marine : Engine proximity wiring for good resistance to high temperatures, fuel oils, chemicals, saline air / water etc.

Petrochemical : Instrumentation & control, temperature sensing, fire warning etc.

Power : In proximity to the turbines, boilers, ash handling etc.



Type - P Cables

Type P Cables are specifically designed for installation and use in harsh environments found within offshore and onshore drilling rigs. These extreme environments may include severe cold, high heat, constant vibration, drilling mud, mechanical stress and salt corrosion.

Specification	: IEEE 1580, IEC 60092-353, IEC 60092-376, UL 1309
Temperature Range	: 90° C, 100° C, 110° C & 125° C
Conductor	: Flexible stranded tinned copper
Application	: Powering Machinery, Communication Devices, Navigation Systems, Offshore Drilling Rigs, Shipboard Wiring and Marine Vessels
Cable Type	: Multi Core, Single Core, Power, Control, VFD and Instrumentation Cables
Voltage Grade	: 300 V, 0.6 / 1.0 KV & 2 KV
Insulation	: XLPO
Sheath	: Extruded Flame Retardant, Oil & Abrasion Resistant Synthetic Elastomer
Armour (Optional)	: Tinned copper or bronze wire braid
Shield (applicable for Instrumentation Cables)	: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core, the single pair construction has only the overall shield.

VFD Cables

VFD cables are used to connect the VFD drive to the variable frequency motors, drives precisely controls the speed and torque of the motors. During this operation of controlling the motor by changing the frequency there is every chance for noise generation, sudden induced voltage and spikes and intense electric field around the conductor which can be suppressed with special design.

Construction	: Metallic layer over the core / cable will reduce the noise / strong electric field around the core / earthing of all spikes generated during the operation.
Voltage Grade	: Up to 1800 / 3300 V AC
Conductor	: Circular electrolytic bare copper / tinned copper (stranded / flexible)
Insulation	: XLPE or EPR or HEPR
Screening	: Combination of copper tape and copper wire braid or double layer of copper tape and concentric braiding
Outer Sheath	: PVC / ZHFR / SHF1 / SHF2
Application	: This construction of metallic layer over the core / cable will reduce the noise / strong electric field around the core / earthing of all spikes generated during the operation.

Co-Axial Cables (RG Series)

Radio Frequency or Signal Transmission Cables, Polyethylene / XLPE / Flouropolymer / Dielectric Insulation & Halogen Free Flame retardant with low smoke and low toxic polymers, Sheath materials.

Specification	: Def Stan 02-512 (PT-5) & MIL-DTL-17H & customer specification
Construction	: Single Core Screened Cables
Primary Conductor	: ABC / ATC / SPC & special conductors like CCS (Copper Clad Steel) etc
Temperature Range	: - 30° C to + 120° C
Insulation	: Polyethylene / XLPE / Flouropolymer
Outer Conductor	: Aluminium Mylar Tape / Annealed Tinned / Bare Copper Braid
Outer Sheath	: Special halogen free and fire retardant with low smoke generation and low toxic properties with E-beam curing process
Type of Cables	: RG 11, RG 213, RG188, RG 58, RG 59, RG 214
Application	: For use of VHF (Very High Frequency) signal transmission



International Approvals



VENDORS & CONTRACTORS EVALUATION COMMITTEE

H.R.S. THERMO CABLES LTD.
PLOT NO.01, G-2 (A) GREEN INDUSTRIAL PARK
JAL-HERLA, DIST-MAJAHODGUNJAR-506001
INDIA

DATE: 19th May 2021
REF: COM-SC/PO-01-002
FILE NO: V-4790

SUBJECT: VENDOR APPROVAL - RE-QUALIFICATION

GENTLEMEN,

REFERENCE TO YOUR PREVIOUS APPROVAL LETTER DATED 29/05/2019, YOUR COMPANY RE-QUALIFIED AS A VENDOR EFFECTIVE 19/05/2021 FOR THE SUPPLY OF THE FOLLOWS PRODUCT(S) FOR K.N.P.C. REFINERIES:

PRODUCT DESCRIPTION

T3 - 40 CABLE, INSTRUMENTS (INCLUDING THERMOCOUPLE WIRE & CABLE)

THE COMPANY (VENDOR) CODE ALLOCATED TO YOUR COMPANY IS 177128.

PLEASE ENSURE TO QUOTE THIS CODE AND ABOVE FILE NO. ON ALL YOUR FUTURE CORRESPONDENCE.

VERY TRULY YOURS,

BANDAR M. AL-QAHTANI
CHAIRMAN V & CEC



THE LETTER SUPERSEDES OUR LETTER DATED 29th MAY 2019

NOTE: APPROVAL VALIDITY IS UP TO 28th MAY 2026 (APPROVED SINCE 29th MAY 2021)
REF #12978

PLEASE REFER OVERLEAF FOR INSTRUCTIONS

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02-1-1000-1111-1111-1111-1111-1111-1111-1111-1111-1111-1111-1111-1111-1111-1111
Head Office - Kuwait National Petroleum Company - P.O. Box: 10 Sabah 10001, Sabah - Kuwait - Tel: 229988888 www.knepc.com K.R. 814 Capital KD 1,501,000,000

ADNOC APPROVAL

✓ THERMO CABLES LTD	Ref:	177128
✓	Address:	Country of Origin: India
✓	Work Product Group:	✓
✓	Work Product Group:	✓
✓	Attachments:	✓
✓	Thermalloy Agency - 01046	✓

Work/Product Groups

Number	Name	Status	Grade
320603	CABLES - LV POWER DISTRIBUTION	Pre-qualified	-
320612	CABLES - FIBER OPTICS	Pre-qualified	-
320618	CABLES - FOR INSTRUMENTS & CONTROL	Pre-qualified	-
320621	CABLES - FIRE RESISTANT	Pre-qualified	-
320627	CABLES FOR DOWNHOLE ELECTRIC SUBMERSIBLE PUMPS (ESP)	Pre-qualified	-

Contracts and Supply Chain Management Department

✓ 2021-05-28

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Infrastructure

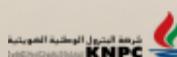
Machinery

Testing Equipment

Name of the Machine	Name of the Machine	Name of the Machine - Range/LC
Rod Break Down Machine (9 Die)	HOIST 'E' - 19 B Laying - 2 Nos	Fourier Transmission infrared Spectrometer (FTIR)
Rod Break Down Machine (11 Die)	HOIST 'G' - 30 Armouring - 2 Nos	Profile Projector
Rod Break Down Machine (13 Die)	HOIST 'G' - 30 B Armouring	Digital Thermometer With Sensor - 2 Nos
Skip Stranding Machine - 2 Nos	HOIST 'F' - 37 Laying	Hot Air Ageing Oven 6 Nos - Up to 250° C & 300° C
Electroplating Tinning Machine - 2 Nos	HOIST 'F' - 37 B Laying - 2 Nos	Hot Set Oven
Multi Wire Drawing Machine 30 mm	HOIST 'K' - 40 Armouring	Ozone Resistance Test Equipment
Multi Wire Drawing Machine 8 Wire - 2 Nos	HOIST 'H' - 48 Armouring - 2 Nos	Smoke Density Apparatus - 3 Nos
Fine Wire Drawing Machine - 4 Nos	HOIST 'H' - 48 B Armouring - 2 Nos	Oxygen & Temperature index Apparatus - 2 Nos
Mixing Machine 75 mm - 3 Nos	HOIST 'J' - 72 B Armouring	Flammability Tester - 3 Nos
Kneader Line - 2 Nos	HOIST 'F' - 96 Armouring	Cold Chamber Bend Cold Impact Test Set - 2 Nos 20° C to +25° C
75 L Kneader	HOIST 'K' - HV Area	Hot Set Test Apparatus - 3 Nos
Ring Marker	HOIST 'L' - Drum Twister Area	Toxicity Index Test Equipment
High Speed Core Rewinding - 4 Nos	HOIST 'O' - RBD Area	Halogen Acid Gas Emission Test Apparatus
Taping Machine - 7 Nos	HOIST 'I' - Despatch - 2 Nos	pH & Conductivity Test Equipment - 2 Nos - 0 to 14 pH
Vertical Taping Machine - 6 Nos	Chain Hoist 'A' - G I Rewinding - 2 Nos	Abrasion Resistancne Tester - 2 Nos
Horizontal Taping Machine - 12 Nos	Chain Hoist 'C' - Simon Taping - 4 Nos	Electronic Tensile Tester - 3 Nos - 0 to 1000 N
Single Twist Bunching Machine	High Speed Bunching Machine - 10 Nos	Dielectric Breakdown Tester & Leakage Current Tester
400 Single Twist Bunching Machine	Chiller - 2 Nos	High Frequency Spark Tester - 8 Nos - 0 to 15 KV AC
Tandem Extrusion Line (Ø50 + 65/35 mm)	Chiller 5 TR	Main Frequency Spark Tester - 2 Nos - 0 to 15 KV AC
Tandem Extruder Line (Ø80+ Ø100/Ø35)	Chiller 10 TR - 2 Nos	Digital Micro Ohm Meter 5 Nos - 1 mΩ to 19.999 kΩ (2 Nos.) & 1 mΩ to 1.9999 kΩ (1 No.)
Tandem Extruder Line (Ø35+ Ø50/Ø35)	Chiller 20 TR	H V Tester 4 Nos - 0-5 / 10 KV
Extruder Machine 20 mm Bi Color	PVC Mixer	Million Mega Ohm Meter 6 Nos - 1 MΩ to 100 GΩ, 1 MΩ to 50 TΩ & 2 MΩ to 20 GΩ
Extruder Machine 45 mm	High Speed Mixer 60 kg	Digital L C R Q Meter
Extruder Machine 45 mm Bi Color	High Speed Mixer 120 kg	Thermal E M F Error Test Apparatus - 0 to 200 mV DC
Extruder Machine 65 mm - 9 Nos	High Speed Mixer 200 kg	Digital M V Source Cum Meter - 0 to 199.9° C
Extruder Machine 70 mm	16 A High Speed Braiding - 3 Nos	Digimatic Caliper - 0 to 300 mm
Extruder Machine 70/35 mm	16 F High Speed Braiding - 2 Nos	Acid Gas Generation Apparatus 2 Nos
Extruder Machine 75 mm - 3 Nos	24 High Speed Braiding - 2 Nos	Swedish Chimney Test Equipment
Extruder Machine 80 mm - 4 Nos	24 A High Speed Braiding - 5 Nos	Water Immersion Test Equipment - Up to 100° C
Extruder Machine 100 mm	24 E High Speed Braiding - 4 Nos	4 Cell Ageing Oven with Data Scanning Logger 2 Nos - 16 Channels
Core Rewinding Machine - 7 Nos	24 F High Speed Braiding	Heating Oven - Up to 200° C
Cooling Tower - 6 Nos	48 High Speed Braiding	Thermal Stability Test Apparatus
GI Rewinding Machine - 20 Nos	3 HP Air Compressor	Water Absorption Test Apparatus Gravimetric
Ceramic Butt Welding Machine	10 HP Air Compressor - 3 Nos	Electronic Balance Weighing Machine - 3 Nos 0 to 180 gms & 10 gms to 3 kgs
Butt Welding Machine - 15 Nos	15 HP Air Compressor	Kelvin Bridge - 0-11 Ω
Electron Beam Accelerator - 2 Nos	20 HP Air Compressor - 2 Nos	Torsion Testing Machine (Digital Control Meter - Up to 99999 Count)
Pairing Machine - 4 Nos	25 HP Air Compressor	Fire Survival Test Equipment
Pairing Back Twist Machine	100 HP Air Compressor - 3 Nos	Static Noise Rejection Ratio Meter - 60 to 100 dB
Laying Machine (7 Bobbins)	Brazing Machine - 4 Nos	H V Break Down Tester - 0 to 2.5 KV DC
Laying Machine (7 Bobbins) - Single Twist	H V Testing - 3 Nos	Transfer Impedance Tester
Laying Machine (13 Bobbins)	Drum Twister Machine	Steel Rule & Test Mandrel Set 0 to 1 Metre
Laying Machine (19 Bobbins) - 4 Nos	630 Single Twister Machine 7 Bobbin	Condition Charmer 2 Nos - 20° C to 40° C (Temp.) & 40 to 80 RH
Laying Machine (37 Bobbins) - 3 Nos	800 Single Twister Machine 12 Bobbin	Insulation Resistance Tester - 0 to 1000 MΩ / 500 V
Laying (42 Bobbin)	1250 Single Twister Machine 19 Bobbin	Hydro Meter 4 Nos - 0.700 - 1.000 g / ml
Armouring Machine (30 Bobbin) - 2 Nos	DT 500 Buncher Machine	Digital Stop Watch 5 Nos - 0 - 24 hrs
Armouring Machine (40 Bobbin)	Scissor Lift 2 ton	Mutual Capacitance Meter - 1.999 nF - 1999.9 nF
Armouring Machine (48 Bobbin) - 4 Nos	Steam Boiler	Length Counter Meter - Up to 99999 mtr
Armouring Machine (72 Bobbin)	PVC Grinder	Tear Resistance Die
Armouring Machine (96 Bobbin)	Hydraulic Press	Coating Thickness Measurement Meter
Extruder Sheathing Machine 80 mm - 2 Nos	PT Stranding & Taping Machine	Digital Multimeter 4 Nos - MΩ
Extruder Sheathing Machine 100 mm	Silicone Rubber Mixing Machine	Inductance Decade Box - 10 mH - 10 H
Cable Rewinding Machine - 5 Nos	65/150 Two Stage Extruder (Compounding Line)	Capacitance Decade Box - 10 pF - 10 μF
GI Rewinding Strip Machine - 2 Nos	60 KVA UPS	Wet & Dry Thermometer 2 Nos - 40° C to +50° C
Off Line Annealer	80 KVA UPS - 2 Nos	Glass Thermometer 05 Nos - 10° C to + 110° C & - 10° C to 250° C
Nickel Plating - 2 Nos	100 KVA UPS	Thermometer 02 Nos - 195° C to 205° C
Pointing Machine - 2 Nos	120 KVA UPS	Digital Anemo Meter - 0 - 45 m/s
Fork Lift - 2 Nos	160 KVA UPS	Digital Thermo Hygrometer 02 Nos - 0 to 95° C / 20 to 99% RH
Auto Clave	200 KVA UPS	Senior Double Kelvin Bridge
HOIST 'A' - Skip	250 KVA UPS - 2 Nos	UV Radiation Test Apparatus
HOIST 'B' - 54 Stranding	320 KVA DG Set	Notch Propagation Tester (Analog)
HOIST 'P' - Stores	365 KVA DG Set	Water Bath (Size 120 cm X 90 cm X 60 cm)
HOIST 'C' - 7 B Laying	600 KVA DG Set	H V Probe Milimeter
HOIST 'E' - 13 Laying	Inkjet Printers - 36 Nos	Abrasion Resistance Tester
HOIST 'E' - 19 Laying - 2 Nos	Laser Printers - 4 Nos	Dynamic Cut Through Tester
		Cable Analyzer
		Universal Testing Machine
		PC Based Crosstalk Attenuation & Impedance Meter Attenuation 0.1 to 20 dB, Cross talk (- 40 to 100 dB), Impedance 199.9Ω to 1.999kΩ
		Network Analyzer (AES)
		Fluke - DSX - 8000
		Toxity Index Tester as per EN 45545-2
		Step Load Tester
		Bending Torsion Tester
		Vibration Tester



OUR CUSTOMERS



Thermo Cables Ltd
An ISO 9001, 14001 & 45001 Certified Company

28, Nagarjuna Hills, Punjagutta, Hyderabad - 500 082
Telangana, India +91 40 44429292 +91 40 23350583

info@thermocables.com; exports@thermocables.com

Overseas Offices:
Exports +91 9392860962 ramdas@thermocables.com
London +44 7798771519 exports@thermocables.com
Germany +49 (0) 15124124557 exports@thermocables.com

Plant - I

D - 44, 45, 48, 49 & 50
Phase V, IDA, Jeedimetla
Hyderabad - 500 055 Telangana, India
 +91 40 23095058 / 7745 +91 40 23090661

Plant - II

G 1, G 2 (A & B), G 9 (A & B) & G 10
Green Industrial Park
Jadcherla, Mahabubnagar - 509 301
Telangana, India

Baroda	9676375143	baroda@thermocables.com
Bengaluru	9341002070	bangalore@thermocables.com
Chennai	9094539439	chennai@thermocables.com
Delhi	9313438322	salesnorth@thermocables.com
Hyderabad	9394345566	hydsales@thermocables.com
Kolkata	9339336204	kolkata@thermocables.com
Mumbai	9320643117	mumbai@thermocables.com
Pune	7709011059	pune@thermocables.com

www.thermocables.com