

TESL™

Series Constant Watt Heating Cable

Product Specifications

Application . . .

Long Line Temperature Maintenance or Freeze Protection

TESL series resistance constant Watt heating cables are used where circuit lengths exceed the limitations of parallel resistance heating cables. TESL withstands the temperature exposures associated with steam purging.

The series circuitry of TESL provides consistent Watt-per-meter power output along the entire length of the cable with no voltage drop. A Fluoropolymer overjacket provides chemical resistance for the heating cable while maintaining maximum flexibility. The construction of the cable meets the 4 joule impact test per IEC-EN-60079-30-1.

TESL cables are approved for use in ordinary (nonclassified) areas and Categories 1 and 2 ATEX classified areas.

Ratings . . .

Maximum Watt density	30 W/m
Maximum supply voltage	600 Vac
Maximum continuous exposure temperature	
Power-off	260°C
Minimum installation temperature	-60°C
Minimum bend radius	6 x cable O.D.
T-rating ¹	T2 to T6 (based on stabilised design)

Stabilised Design² . . .

The Watt density limitation for TESL cables is directly related to the desired maintain temperature. Thermon is able to ensure the T-rating based on a stabilised design that enables series constant Watt heating cables to operate in hazardous areas without limiting thermostats. TESL cable output and T-rating are dependent upon supply voltage, cable resistance, temperature conditions as well as additional variables. Contact Thermon for design assistance.

Basic Accessories . . .

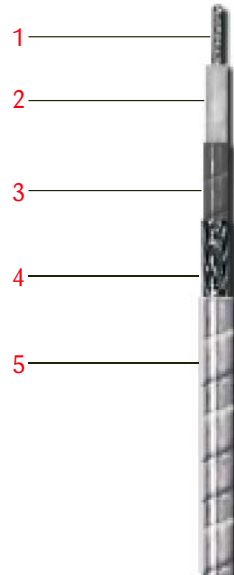
Power Connection: TESL cables typically require nonheating terminations at each end of the circuit before connecting to power. Contact Thermon for complete information.

Notes . . .

1. T-rating per internationally recognised testing agency guidelines.
2. Thermon heating cables are approved for the listed T-ratings using the stabilised design method. This enables the cable to operate in hazardous areas without limiting thermostats. The T-rating may be determined using CompuTrace® Electric Heat Tracing Design Software or contact Thermon for design assistance.

THERMON . . . The Heat Tracing Specialists®
www.thermon.com

European Headquarters
Boezemweg 25 • 2641 KG Pijnacker
PO Box 205 • 2640 AE Pijnacker • The Netherlands
Phone: +31 (0) 15-36 15 370 • Facsimile: +31 (0) 15-36 15 379



Construction . . .

- 1 Heating Conductor
- 2 Fluoropolymer Dielectric Insulation
- 3 Polyamide Tape
- 4 Nickel-Plated Copper Braid (BN)
- 5 Fluoropolymer Overjacket

Certification/Approval . . .

CENELEC European Organisation for Electrotechnical
Standardisation
Hazardous (Classified) Locations

Baseefa

CE Ex II 2 G Ex e II 08 ATEX 0170 U

Sira

CE Ex II 2 G Ex e II T3 to T6 08 ATEX 3127 X



ISO 9001
REGISTERED

Corporate Headquarters
100 Thermon Dr. • PO Box 609
San Marcos, TX 78667-0609 • U.S.A.
Phone: +1 512-396-5801 • Facsimile: +1 512-396-3627

Available Cables . . .

Product Type	Resistance Ohm/m at 20°C	Conductor Diameter mm	Cable Diameter mm
TESL 0.8	0.0008	6.05	9.8
TESL 1.1	0.0011	5.16	9.2
TESL 1.8	0.0018	4.03	7.8
TESL 2.9	0.0029	3.20	6.9
TESL 4.4	0.0044	2.58	6.3
TESL 7	0.007	2.05	5.8
TESL 10	0.0100	1.72	5.5
TESL 11.6	0.0116	1.60	5.4
TESL 15	0.015	1.38	5.1
TESL 17.8	0.0178	1.28	5.0
TESL 25	0.025	1.08	4.8
TESL 31.5	0.0315	0.96	4.7
TESL 50	0.050	0.76	4.5
TESL 68	0.068	0.65	4.4
TESL 100	0.100	1.31	5.0
TESL 150	0.150	1.07	4.8
TESL 170	0.170	1.00	4.8
TESL 200	0.200	0.93	4.7
TESL 240	0.240	1.05	4.8
TESL 330	0.330	1.25	5.0
TESL 370	0.370	1.18	4.9
TESL 500	0.500	1.02	4.8
TESL 730	0.730	0.60	4.4
TESL 1000	1.000	0.90	4.7
TESL 1440	1.440	0.77	4.5
TESL 1730	1.730	0.70	4.5
TESL 2160	2.160	0.63	4.4
TESL 2400	2.400	0.89	4.6
TESL 3000	3.000	0.76	4.5
TESL 4000	4.000	0.68	4.4
TESL 5600	5.600	0.58	4.3
TESL 8000	8.000	0.48	4.2

Circuit Breaker Sizing and Type . . .

Maximum circuit lengths for TESL heating cables will be a function of cable resistance, circuit length and operating voltage. Circuit length, breaker sizing and earth-fault protection should be based on applicable local codes.

Earth-fault protection of equipment should be provided for each branch circuit supplying electric heating equipment.

Also Available . . .

The CKTES(X)L Termination Kit, designed to connect TESL and TESXL heating cables to power, to facilitate circuit extension and for making cold-lead connections.

For more information about the CKTES(X)L Termination Kit, ask for the CKTES(X)L Spec Sheet.

