

APPLICATION

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

The series circuitry of TESH provides consistent Wattper-metre power output along the entire length of the cable with no voltage drop. A glassceramic tape layer adds additional protection to the heating cable and a fluoropolymer overjacket provides chemical resistance while maintaining maximum flexibility. The construction of the cable meets the 7 Joule impact test per EN50019.

TESH cables are approved for use in ordinary (nonclassified) areas and Catagories 2 and 3 ATEX classified areas.

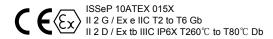
RATINGS

Maximum watt density	25 W/m
Maximum supply voltage	.750 Vac
Maximum continuous exposure temperature	
Power-off	260°C
Minimum installation temperature	60°C
Minimum bend radius 5 x ca	able O.D.
T-rating ¹	.T2 to T6
(using the principles of stabilized design or	limiters) ²

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.

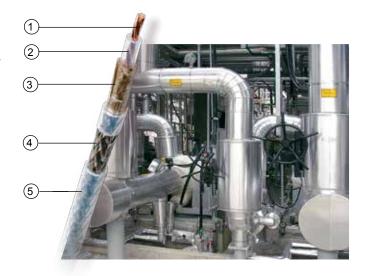
CERTIFICATIONS/APPROVALS



TESH has additional hazardous area approvals including:

- GGTN Kazakhstan TR CU Gospromnadzor CQST
- FSETAN RS TCCExEE

Contact Thermon for additional approvals and specific information.



CONSTRUCTION

- 1 Heating conductor
- 2 Fluoropolymer dielectric insulation
- 3 Glassceramic tape
- 4 Nickel-plated copper braid (BN)
- 5 Fluoropolymer overjacket

PRODUCT FEATURES

- · Withstands continuous flamibility testing according to IEC 60332-1: 1993
- Allows cable to be installed at temperatures to -60°C

STABILISED DESIGN

The Watt density limitation for TESH 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. TESH 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

Thermon offers system accessories designed specifically for rapid, trouble-free installation of Thermon heating

All cables require a connection kit to comply with approval requirements. Information on accessories to complete a heater circuit installation can be found in the "Heating Cable Systems Accessories" product specification sheet (Form TEP0010U).

THERMON The Heat Tracing Specialists®



European Headquarters: Boezemweg 25 • PO Box 205 • 2640 AE Pijnacker • The Netherlands • Phone: +31 (0) 15-36 15 370 Corporate Headquarters: 100 Thermon Dr • PO Box 609 San Marcos, TX 78667-0609 • Phone: 512-396-5801 • 1-800-820-4328 For the Thermon office nearest you visit us at . . . www.thermon.com

AVAILABLE CABLES

Product Type	Resistance Ohm/m at 20°C	Conductor Size mm²	Max. Cable Length ¹ m (with 30 mA earthfault protection)	Cable Diameter mm
TESH 2.9	0.0029	6.00	1435	7.0
TESH 4.4	0.0044	4.00	1525	6.3
TESH 7	0.0072	2.50	1855	5.5
TESH 10	0.010	1.79	1775	5.1
TESH 11.7	0.0117	1.50	2025	4.9
TESH 15	0.015	1.20	2090	4.7
TESH 17.8	0.0178	1.00	2275	4.6
TESH 25	0.025	1.11	2525	4.6
TESH 31.5	0.0315	1.60	2400	4.9
TESH 50	0.050	1.02	2335	4.7
TESH 65	0.065	0.75	1890	4.4
TESH 80	0.080	1.21	2190	4.3
TESH 100	0.100	1.50	2025	4.9
TESH 150	0.150	1.02	2335	4.6
TESH 200	0.200	0.75	2605	4.4
TESH 320	0.320	0.92	2420	4.5
TESH 380	0.380	0.79	2555	4.4
TESH 480	0.480	0.64	2765	4.3
TESH 600	0.600	0.49	3010	4.2
TESH 700	0.700	0.43	3155	4.1
TESH 810	0.810	0.62	2780	4.3
TESH 1000	1.000	0.49	3010	4.2
TESH 1440	1.440	0.34	3395	4.1
TESH 1750	1.750	0.29	3615	4.1
TESH 2000	2.000	0.55	2900	4.2
TESH 3000	3.000	0.34	3395	4.1
TESH 8000	8.000	0.14	4455	3.8

Note

CIRCUIT BREAKER SIZING AND TYPE

Maximum circuit lengths for various circuit breaker amperages are shown below. Circuit breaker sizing and earth-fault protection should be based on applicable local codes. For information on design and performance on other voltages, contact Thermon.

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

Longer circuit lengths are possible based on earth-fault protection with higher earth-fault ratings; contact Thermon.