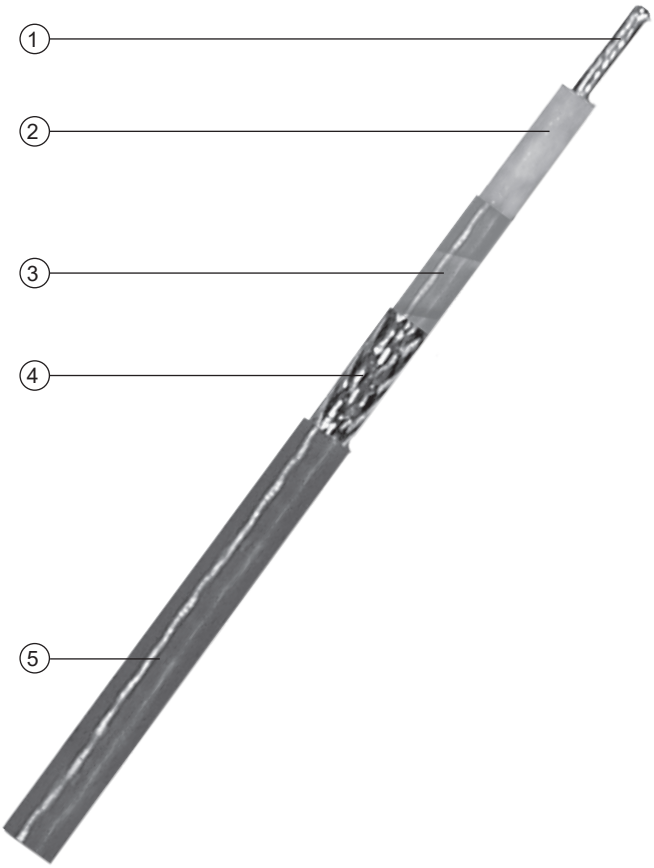
PRODUCT DATASHEET

TESH™

LOW VOLTAGE REFRIGERATION HEAT TRACING



APPLICATION

TESH low voltage refrigeration heater cables are a series resistance cable used primarily for freeze protection around freezer doors and condensate drains to prevent frost build up.

RATINGS

Supply Voltage	Up to 32 Volts
Maximum exposure temp. (power off)	260°C
Minimum installation temperature power	-60°C
Output of Cable (W/m)	14.8 to 31.5
Diameter	4.9 - 5.3 mm

BENEFITS

- Cut to length
- Field fabricated (no termination kits required)
- Low voltage
- Easy to bend (circular construction)
- Robust Construction

COMPONENTS/ACCESSORIES

- Aluminium Tape
- Step down transformer
  (contact factory for more information)

CERTIFICATIONS/APPROVALS

For use in non-hazardous areas only

CONSTRUCTION

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

Thermon Australia Pty. Ltd. · 30 London Drive · Bayswater, 3153 · Victoria, Australia · Phone: 03 9762 6900 · Fax: 03 9762 9519
For the Thermon office nearest you visit us at www.thermon.com

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TESH SELECTION TABLE

	32 V	24 V	18 V	12 V	TESH 100 W/m	TESH 150 W/m	TESH 200 W/m	TESH 380 W/m	TESH 480 W/m
Circuit Length (m)	10.7	8	6	4				21.2	16.9
	12	9	6.8	4.5			32.4	16.8	13.4
	13.3	10	7.5	5			26.5	13.7	
	14.7	11	8.3	5.5		29.0	22.0		
	16	12	9	6		24.6	18.6		
	17.3	13	9.8	6.5	29.1	21.0	15.9		
	18.7	14	10.5	7	25.3	18.2			
	20	15	11.3	7.5	22.3	16.1			

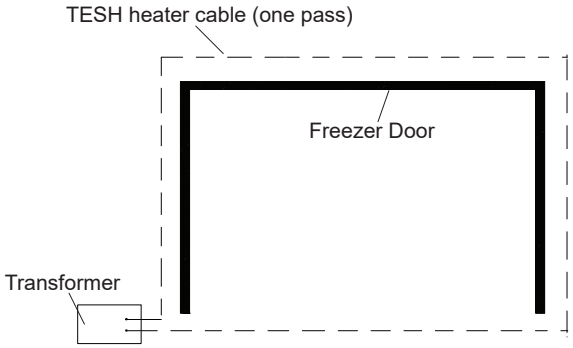
HOW TO SELECT CABLE

Step 1 - Choose supply voltage and look down for the heater cable length for your application eg. 32V and 20m

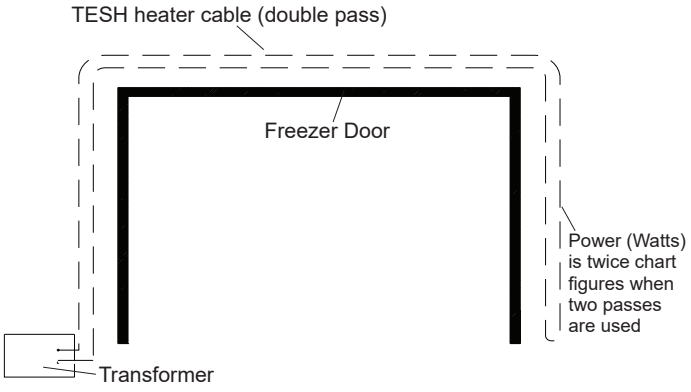
Step 2 - Move across the table and select the w/m required eg. Cable TESH 150 is the only cable at 16.1 w/m

A double pass of TESH 150 cable could be used in the "Up and Back" configuration shown below giving a total of 32.2 w/m

TYPICAL CIRCUIT LAYOUT OF TESH HEATER CABLE IN FREEZER DOORS



"Around & Back" (Floor Heated)



"Up & Back" (Floor Not Heated)

TYPICAL REQUIREMENTS

-25°C freezer - Requires 30 - 35 W/m

-40°C freezer - Requires 45 - 50 W/m

HEATER CABLE ACCESSORIES AND TERMINATION

1. Trim TESH heater cable to conductor and connect each end to terminals on transformer. Termination is not required.