

OPTIONS

Model	Description
PHT - N	Nickel Plated Copper braid for non-hazardous areas, hazardous areas (Zone 1 or 2) or where traced equipment does not provide an effective earth path.
PHT - NF	Fluoropolymer over jacket over nickel plated copper braid provides corrosion protection for braid where chemical solutions or vapors may be present.

POWERHEAT - PHT

CONSTANT WATTAGE HEATING CABLE

Flexotherm™ offers PowerHeat Constant Wattage Heating Cable for process heating of pipework and vessels. This heating cable can be cut-to-length to ensure that the cable is the exact length needed for each application. Termination and power connection components are all provided in convenient kits.

FEATURES

- Withstand temperatures up to 285°C
- Available in outputs up to 70W/m
- Can be cut to length at site
- Approved and certified for use in hazardous areas
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC
- Quick and simple installation
- Manufactured in accordance with latest international standards
- Safe and reliable

INDUSTRIES

- Freeze protection
- Process heating of pipe work and vessels

POWERHEAT - PHT

CONSTANT WATTAGE HEATING CABLE

Specification

Maximum Temperature	Unenergized 285°C (392°F)			
Minimum Installation Temperature	-20°C (-4°F)			
Power Supply	220 - 240 VAC Or 110 - 120 VAC			
Construction				
Heating Element	Nickel Chromium			
Power Conductors	Nickel Plated Copper			
Conductor Insulation	Glass/Mica			
Primary Insulation	Glass/Mica			
Jacket	Fluoropolymer (FEP)			
Braid	Nickel Plated Copper			
Overjacket (optional)	Fluoropolymer (PFA)			
Temperature Classification	285°C T3 (200°C) T4 (135°C) T5 (100°C) T6 (85°C)	Devices are classified to rated output and conditions of use (ex. Limited pipe temperature).		
Weights and Dimensions				
Type Ref	Nominal Dimensions (mm)	Weight kg/100m	Min. Bending radius	Gland Size
PHT	8.8 x 6.0	12	25	M20
PHT - N	9.6 x 6.8	16	30	M20
PHT - NF	10.3 x 7.5	19	35	M20

Maximum Pipe / Workpiece Temperatures (°C)

Cat Ref.	Nom. Output W/m	AREA CLASSIFICATION						
		HAZARDOUS¹						
		T6	T5	T4	T3	T2	T1	SAFE²
PHT	10							275
	30							239
	50							192
	70							133
PHT - N	10	44	61	102	180	275	275	275
	30	-	-	24	116	246	246	246
	50	-	-	-	48	200	200	200
	70	-	-	-	-	144	144	144
PHT - NF	10	40	60	105	186	275	275	275
	30	-	-	22	132	255	255	255
	50	-	-	-	63	215	215	215
	70	-	-	-	-	168	168	168

1. Surface temperature limits in accordance with current standards
2. Surface temperature limited by materials of construction

Maximum Circuit Length

Output (W/m)	Max. Circuit Length 115V	Max. Circuit Length 230V	Zone Length 115V	Zone Length 230V
10	79m	152m		
30	46m	88m		
50	35m	68m		
70	30m	56m		

Contact Neptech Inc. for details



POWERHEAT - AHT

CONSTANT WATTAGE HEATING CABLE

Flexotherm™ offers PowerHeat Constant Wattage Heating Cable for process heating of pipework and vessels. This heating cable can be cut-to-length to ensure that the cable is the exact length needed for each application. Termination and power connection components are all provided in convenient kits.

FEATURES

- Withstand temperatures up to 425°C
- Available in outputs up to 150W/m
- Can be cut to length at site
- Approved and certified for use in hazardous areas
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC
- Quick and simple installation
- Manufactured in accordance with latest international standards
- Safe and reliable

INDUSTRIES

- Freeze protection
- Process heating of pipe work and vessels

POWERHEAT - AHT

CONSTANT WATTAGE HEATING CABLE

Specification

Maximum Exposure Temperature	Continuous	350°C (644°F)
	Intermittent	425°C (797°F)
Minimum Installation Temperature	-40°C (-40°F)	
Minimum Operating Temperature	-65°C (-85°F)	
Power Supply	0 - 277 VAC	
Construction		
Heating Element	Nickel Chromium	
Power Conductors	Nickel Plated Copper 3mm²	
Conductor Insulation	Glass/Mica	
Primary Insulation	Glass/Mica	
Jacket	Aluminum	
Temperature Classification	350°C	Devices are classified to rated output and conditions of use (ex. Limited pipe temperature).
	T2 (300°C)	
	T3 (200°C)	
	T4 (135°C)	
	T5 (100°C)	
	T6 (85°C)	

Weights and Dimensions

Type Ref	Nominal Dimensions (mm)	Weight kg/100m	Min. Bending radius	Gland Size
AHT	10 x 7	16.5	25	M20

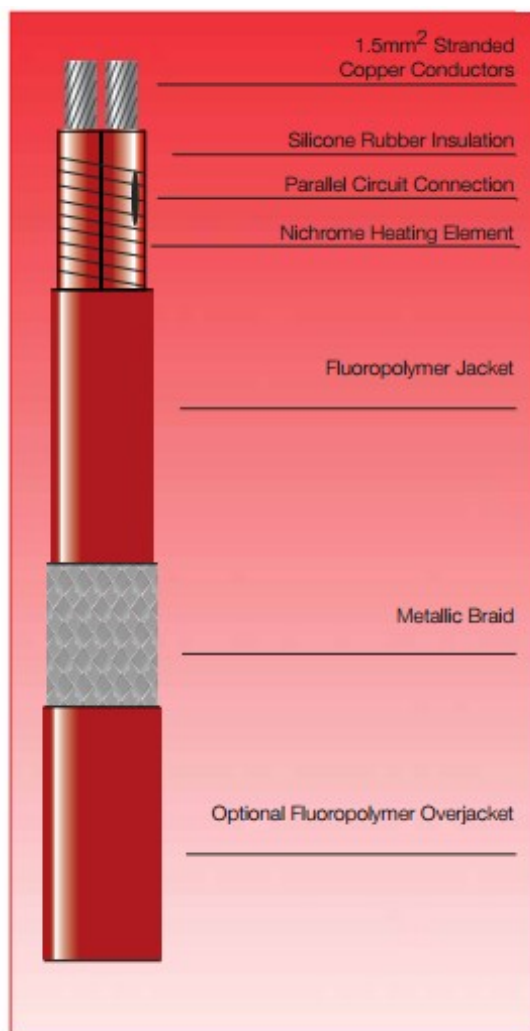
Maximum Pipe / Workpiece Temperatures (°C)

Area Classification	HAZARDOUS ¹						Safe ²
	T6	T5	T4	T3	T2	T1	
Catalogue Ref.							
15AHT	-	36	71	160	289	350	350
30AHT	-	11	28	100	246	323	323
50AHT	-	-	-	39	178	276	276
70AHT	-	-	-	-	48	140	140
100AHT	-	-	-	-	48	140	140
150AHT	-	-	-	-	-	36	36

1. Surface temperature limits in accordance with EN60079
2. Surface temperature limited by materials of construction

Maximum Circuit Length

Catalogue Ref.	115V	230V / 277V
15AHT	59m	118m
30AHT	42m	83m
50AHT	32m	64m
70AHT	26m	54m
100AHT	23m	46m
150AHT	19m	37m



OPTIONS

Model	Description
EMTF - C	Tinned Copper braid provides mechanical protection for base heater and may be used when traced equipment does not provide an effective earth path.
EMTF - CF	Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions or vapors may be present.

MICROTRACER - EMTF

CONSTANT WATTAGE HEATING CABLE

Flexotherm™ offers MicroTracer Constant Wattage Heating Cable for freeze protection or refrigeration duties or process heating of pipework and vessels. This heating cable can be cut-to-length to ensure that the cable is the exact length needed for each application. It is particularly suited to refrigeration applications or for small bore instrument lines.

FEATURES

- Withstand temperatures upto 200°C
- Available in outputs up to 50W/m
- Can be cut to length at site
- Particularly suited to small bore pipework
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC
- High Corrosion Resistance
- Medium temperature parallel resistance
- Safe and reliable

INDUSTRIES

- Freeze protection
- Process heating of pipe work and vessels

MICROTRACER - EMTF

CONSTANT WATTAGE HEATING CABLE

Specification

Maximum Temperature	Unenergized 200°C (392°F) Energized see table
Minimum Installation Temperature	-80°C (-112°F)
Power Supply	220 - 240 VAC Or 110 - 120 VAC
Construction	
Grade	2.2 to BS6351: Part 1
Heating Element	Nickel Chromium
Power Conductors	Tin Plated Copper 1.5mm ²
Conductor Insulation	Silicone Rubber
Jacket	Fluoropolymer (FEP)
Braid	Tinned Copper
Overjacket (optional)	Fluoropolymer (FEP)

Weights and Dimensions

Type Ref	Nominal Dimensions (mm)	Weight kg/100m	Min. Bending radius	Gland Size
EMTF	7.0 x 4.3	6.4	20	M16
EMTF - C	7.8 x 5.1	9.6	25	M16
EMTF - CF	9.0 x 6.3	12.0	30	M16

Maximum Pipe / Workpiece Temperatures (°C)

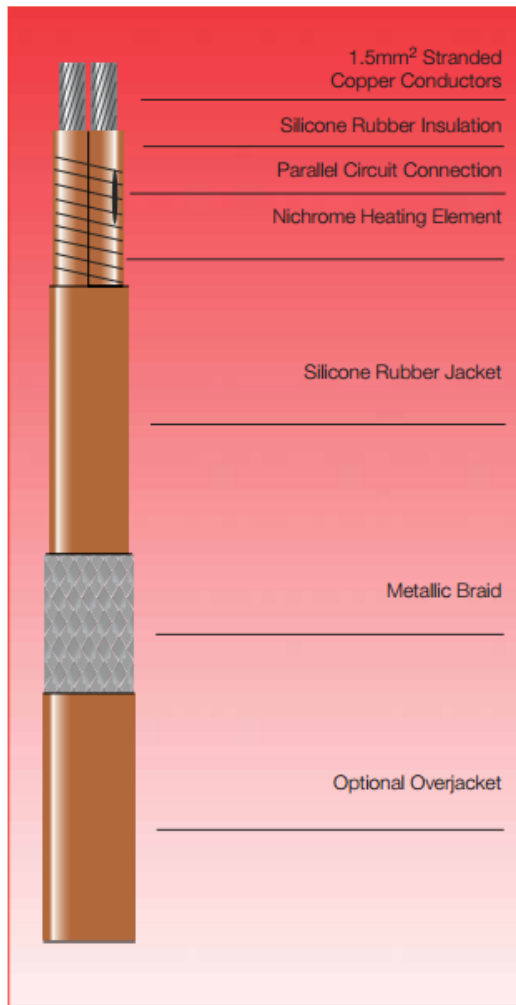
Heater Nominal Output (W/m)	Maximum Permissible Pipe Temp (°C)		
	EMTS	EMTS - C	EMTS - CF
6.5	190	190	190
13	175	175	185
23	135	145	155
33	95	100	100
50	45	60	70

For conditions other than worst case, or pipes of other materials (ex. Plastic, Stainless Steel, etc.) consult Neptech Inc.

Tolerances: Voltage +10%; Resistance: +10%; -0%

Maximum Circuit Length

Output (W/m)	Max. Circuit Length 115V	Max. Circuit Length 230V	Zone Length 115V	Zone Length 230V
6.5	82m	164m	1000mm	1500mm
13	58m	116m	741mm	1100mm
23	44m	87m	900mm	1000mm
33	36m	73m	1000mm	950mm
50	30m	59m	995mm	900mm



MICROTRACER - EMTS

CONSTANT WATTAGE HEATING CABLE

Flexotherm™ offers MicroTracer Constant Wattage Heating Cable for freeze protection or refrigeration duties or process heating of pipework and vessels. This heating cable can be cut-to-length to ensure that the cable is the exact length needed for each application. It is particularly suited to refrigeration applications or for small bore instrument lines.

FEATURES

- Withstand temperatures upto 200°C
- Available in outputs up to 50W/m
- Can be cut to length at site
- Particularly suited to small bore pipework
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC
- Highly flexible
- Medium temperature parallel resistance
- Safe and reliable

OPTIONS

Model	Description
EMTF - C	Tinned Copper braid provides mechanical protection for base heater and may be used when traced equipment does not provide an effective earth path.
EMTS - CS	Silicone rubber overjacket over tinned copper braid provides additional protection
EMTS - CF	Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions or vapors may be present.

INDUSTRIES

- Freeze protection
- Process heating of pipe work and vessels

MICROTRACER - EMTS

CONSTANT WATTAGE HEATING CABLE

Specification

Maximum Temperature	Unenergized 200°C (392°F) Energized see table
Minimum Installation Temperature	-80°C (-112°F)
Power Supply	220 - 240 VAC Or 110 - 120 VAC
Maximum Resistance of Protective Braiding	18.2 Ohm/km
Construction	
Grade	2.2 to BS6351: Part 1
Heating Element	Nickel Chromium
Power Conductors	Tin Plated Copper 1.5mm ²
Conductor Insulation	Silicone Rubber
Jacket	Silicone Rubber
Braid	Tinned Copper
Overjacket (optional)	Silicone Rubber or Fluoropolymer (FEP)

Weights and Dimensions

Type Ref	Nominal Dimensions (mm)	Weight kg/100m	Min. Bending radius	Gland Size
EMTS	8.2 x 6.0	7.4	10	M16
EMTS - C	9.0 x 6.8	11.7	12	M16
EMTS - CS	11.0 x 8.8	14.3	15	M20
EMTS - CF	10.2 x 8.0	14.3	25	M20

Maximum Pipe / Workpiece Temperatures (°C)

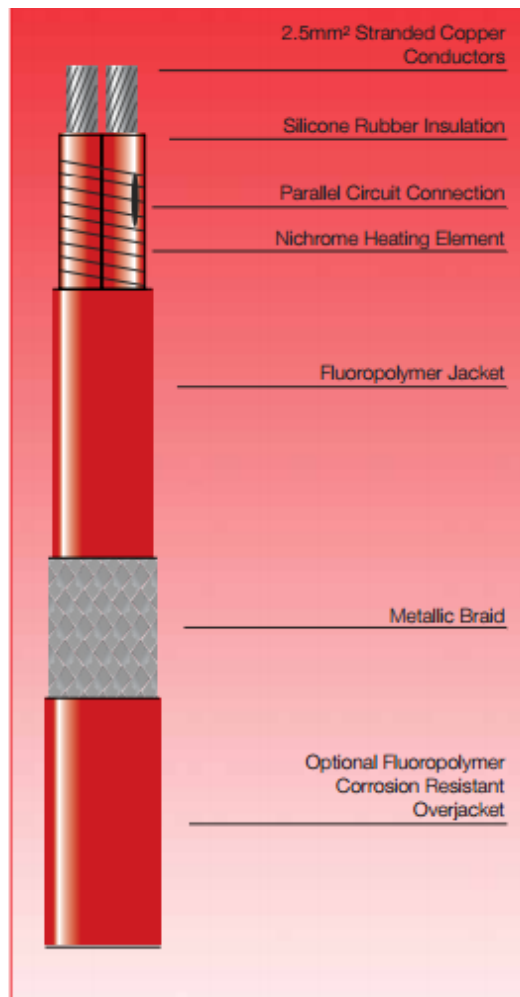
Heater Nominal Output (W/m)	Maximum Permissible Pipe Temp (°C)			
	EMTS	EMTS - C	EMTS - CS	EMTS - CF
6.5	190	190	190	190
13	180	180	185	185
23	150	150	160	160
33	110	110	115	115
50	70	75	80	75

For conditions other than worst case, or pipes of other materials (ex. Plastic, Stainless Steel, etc.) consult Neptech Inc.

Tolerances: Voltage +10%; Resistance: +10%; -0%

Maximum Circuit Length

Output (W/m)	Max. Circuit Length 115V	Max. Circuit Length 230V	Zone Length 115V	Zone Length 230V
6.5	82m	164m	1000mm	1500mm
13	58m	116m	741mm	1100mm
23	44m	87m	900mm	1000mm
33	36m	73m	1000mm	950mm
50	30m	59m	995mm	900mm



MINITRACER - MTF

CONSTANT WATTAGE HEATING CABLE

Flexotherm™ offers Minitracer Constant Wattage Heating Cable for freeze protection or process heating of pipework and vessels. This heating cable can be cut-to-length to ensure that the cable is the exact length needed for each application. Termination and power connection components are all provided in convenient kits.

FEATURES

- Withstand temperatures upto 200°C
- Available in outputs up to 50W/m
- Can be cut to length at site
- Approved to IEEE Standards for use in non-hazardous areas and hazardous areas.
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC
- High Corrosion Resistance
- Medium temperature parallel resistance
- Safe and reliable

OPTIONS

Model	Description
MTF - C	Tinned Copper braid provides mechanical protection for base heater and may be used when traced equipment does not provide an effective earth path.
MTF - CF	Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions of vapors may be present.

INDUSTRIES

- Freeze protection
- Process heating of pipe work and vessels

MINITRACER - MTF

CONSTANT WATTAGE HEATING CABLE

Specification

Maximum Temperature	Unenergized 200°C (392°F)	
Minimum Installation Temperature	-40°C (-40°F)	
Power Supply	220 - 240 VAC Or 110 - 120 VAC	
Construction		
Heating Element	Nickel Chromium	
Power Conductors	Tin Plated Copper 2.5mm ²	
Conductor Insulation	Silicone Rubber	
Jacket	Fluoropolymer (FEP)	
Braid	Tinned Copper	
Overjacket (optional)	Fluoropolymer (FEP)	
Temperature Classification	200°C T4 (135°C) T5 (100°C) T6 (85°C)	Devices are classified to rated output and conditions of use (ex. Limited pipe temperature).

Weights and Dimensions

Type Ref	Nominal Dimensions (mm)	Weight kg/100m	Min. Bending radius	Gland Size
MTF	9.2 x 6.2	7	25	M20
MTF - C	10.0 x 7.0	11	30	M20
MTF - CF	11.2 x 8.2	15	35	M20

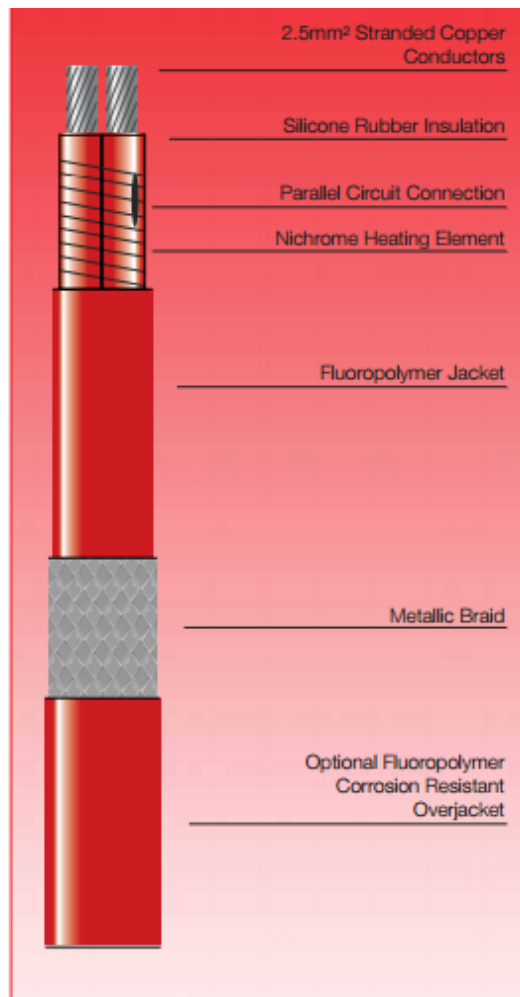
Maximum Pipe / Workpiece Temperatures (°C)

Cat Ref.	Nom. Output W/m	AREA CLASSIFICATION						
		HAZARDOUS ¹						
		T6	T5	T4	T3	T2	T1	SAFE ²
MTF	6.5							190
	13							180
	23							150
	33							110
	50							70
NOT APPROVED								
MTF - C	6.5	60	75	120	190	190	190	190
	13	40	55	95	175	180	180	180
	23	-	30	65	155	155	155	155
	33	-	-	40	115	120	120	120
	50	-	-	-	70	80	80	80
MTF - CF	6.5	60	80	125	190	190	190	190
	13	35	50	100	185	185	185	185
	23	-	25	55	160	165	165	165
	33	-	-	35	115	120	120	120
	50	-	-	-	80	85	85	85

1. Surface temperature limits in accordance with EN50014.
2. Surface temperature limited by materials of construction

Maximum Circuit Length

Output (W/m)	Max. Circuit Length 115V	Max. Circuit Length 230V	Zone Length 115V	Zone Length 230V
6.5	106	212	1000mm	1500mm
13	75	150	741mm	1100mm
23	56	113	900mm	1000mm
33	47	94	1000mm	950mm
50	38	76	995mm	900mm



MINITRACER - MTFJ

CONSTANT WATTAGE HEATING CABLE

Flexotherm™ offers Minitracer Constant Wattage Heating Cable for freeze protection or process heating of pipework and vessels. This heating cable can be cut-to-length to ensure that the cable is the exact length needed for each application. Termination and power connection components are all provided in convenient kits.

FEATURES

- Withstand temperatures up to 200°C
- Available in outputs up to 33W/m
- Can be cut to length at site
- CENELEC approved for use in hazardous areas
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC
- High Corrosion Resistance
- Medium temperature parallel resistance
- Safe and reliable

OPTIONS

Model	Description
MTFJ- C	Tinned Copper braid provides mechanical protection for base heater and may be used when traced equipment does not provide an effective earth path.
MTFJ - CF	Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions or vapors may be present.

INDUSTRIES

- Freeze protection
- Process heating of pipe work and vessels

MINITRACER - MTFJ

CONSTANT WATTAGE HEATING CABLE

Specification

Maximum Temperature	Unenergized 200°C (392°F)	
Minimum Installation Temperature	-40°C (-40°F)	
Power Supply	220 - 240 VAC Or 110 - 120 VAC	
Construction		
Heating Element	Nickel Chromium	
Power Conductors	Tin Plated Copper 2.5mm ²	
Conductor Insulation	Silicone Rubber and Fluoropolymer	
Jacket	Fluoropolymer (FEP)	
Braid	Tinned Copper	
Overjacket (optional)	Fluoropolymer (FEP)	
Temperature Classification	200°C T4 (135°C) T5 (100°C) T6 (85°C)	Devices are classified to rated output and conditions of use (ex. Limited pipe temperature).

Weights and Dimensions

Type Ref	Nominal Dimensions (mm)	Weight kg/100m	Min. Bending radius	Gland Size
MTFJ	7.5 x 4.8	6	20	M16
MTFJ - C	9.0 x 6.0	9	25	M16
MTFJ - CF	9.8 x 6.8	11	30	M20

Maximum Pipe / Workpiece Temperatures (°C)

Cat Ref.	Nom. Output W/m	AREA CLASSIFICATION						
		HAZARDOUS ¹						
		T6	T5	T4	T3	T2	T1	SAFE ²
MTF	6.5							190
	13							180
	23							150
	33							110
MTF - C	6.5	54	72	115	187	190	190	190
	13	30	45	87	173	179	179	179
	23	-	-	47	144	149	149	149
	33	-	-	-	102	107	107	107
MTF - CF	6.5	54	74	121	190	190	190	190
	13	21	41	90	180	187	185	185
	23	-	-	39	152	159	159	159
	33	-	-	-	103	108	108	108

1. Surface temperature limits in accordance with EN50014.
2. Surface temperature limited by materials of construction

Maximum Circuit Length

Output (W/m)	Max. Circuit Length 115V	Max. Circuit Length 230V	Zone Length 115V	Zone Length 230V
6.5	111m	212m	1000mm	1500mm
13	78m	150m	741mm	1100mm
23	59m	113m	900mm	1000mm
33	49m	94m	1000mm	950mm