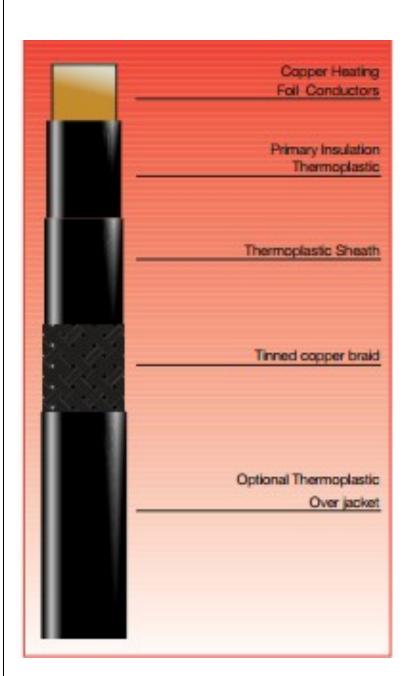


LONGLINE - HTP1F

SERIES RESISTANCE HEATING CABLE



Flexotherm™ offers Longline High Efficiency Series Resistance Heating Cable for heating of moderately long pipelines. Longline Heating Cable minimizes the number of electrical supplied needed, resulting in minimized supply cabling and distribution equipment costs.

FEATURES

- Circuit lengths up to 5km
- Single supply point minimizes supply cabling costs
- High efficiency, flat and flexible
- Freeze protection and heat raising capabilities
- Power outputs up to 23 W/m
- Easy installation in convenient lengths
- Thermoplastic sheath for flexibility
- Safe and reliable

- Freeze protection
- Process heating of pipe work and vessels
- · Piping and Pipelines



LONGLINE - HTP1F

Min. Bending radius

35

35

75

Min. Bending radius

35

35

75

SERIES RESISTANCE HEATING CABLE

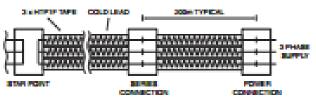
Specification

23

78

80

Maximum Temperature	Unenergized	125°C (257°F)	Weights and Dimensions 16mm Foil Width				
Minimum Installation Temperature	-40°C (-40°F)						
Power Output	Up to 23W/m according to a	by design application req.	Type Ref	Nominal Dimensions (mm)	Weight kg/100m		
Power Supply	Up to 600V 3	Up to 600V 3 phase		(111111)			
	According to o	design req.	HTP1F	20.0 x 6.0	36		
Construction			LITD4E C	24.0 × 7.0	4.4		
Heating Conductors	Copper		HTP1F - C	21.0 x 7.0	44		
Sheath	Thermoplastic		HTP1F - CT	22.0 x 8.0	65		
Braid (optional)	Tinned Copper		-				
Primary Insulation	Thermoplastic						
Jacket (optional)	Thermoplastic	Thermoplastic		20mm Foil Width			
Heating Conductor Thickness	i) 16mm wide	i) 16mm wide, 1.0, 1.25, 1.5mm		Nominal Weight			
	ii) 20mm wide	, 1.75, 2.0mm	Type Ref	Dimensions (mm)	kg/100m		
	will size condu	nat Neptech Inc. uctors to provide	HTP1F	24.0 x 6.0	48		
	the required V required circu	-	HTP1F - C	25.0 x 7.0	58		
Maximum Pipe / Workpiece Temperature (°C)			HTP1F - CT	27.0 x 8.0	86		
Heater							
	UM PERMISSIBLE P	I PERMISSIBLE PIPE TEMP (°C)					
Output ———— (W/m) HTP1F	HTP1F - C	HTP1F - C HTP1F - CT		Typical Arrangement			
10 112	109	100					
15 94	95	85	2000	* ********	JOSE TYPICAL		

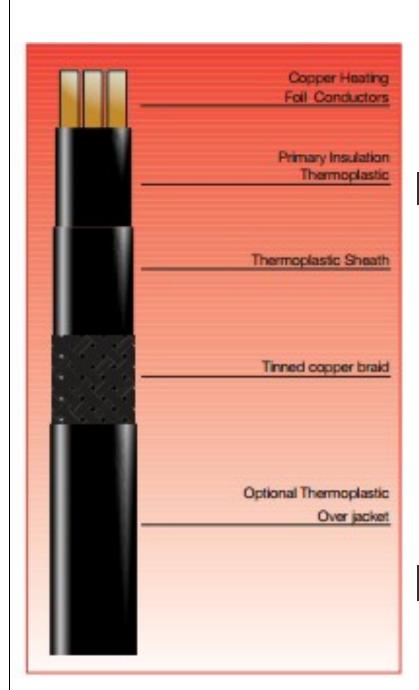


70



LONGLINE - HTP3F

SERIES RESISTANCE HEATING CABLE



Flexotherm™ offers Longline High Efficiency Series Resistance Heating Cable for heating of moderately long pipelines. Longline Heating Cable minimizes the number of electrical supplied needed, resulting in minimized supply cabling and distribution equipment costs.

FEATURES

- Circuit lengths up to 2km
- Single supply point minimizes supply cabling costs
- High efficiency, flat and flexible
- Freeze protection and heat raising capabilities
- Power outputs up to 23 W/m
- Easy installation in convenient lengths
- Thermoplastic sheath for flexibility
- Safe and reliable

- Freeze protection
- Process heating of pipe work and vessels
- · Piping and Pipelines



LONGLINE - HTP3F

SERIES RESISTANCE HEATING CABLE

Specification

Maximum Temperature	Unenergized 125°C (257°F)	Dimensions				
		Type Ref. Nom. Dims (mm)				
Minimum Installation Temperature	-40°C (-40°F)	HTP3F 24 x 6				
Power Output	Up to 23W/m by design	HTP3F - C 25 x 7				
•	according to application req.	HTP3 - CT 27 x 9				
Power Supply	Up to 600V 3 phase					
	According to design req.	Typical Arrangement				
Construction						
Heating Conductors	Copper 4mm wide	1 - HTPSP TAPE COLD LEAD 386-TYPECAL				
Sheath	Thermoplastic	27008E				
Braid (optional)	Tinned Copper	EDITOR SERVE POWER				
Primary Insulation	Thermoplastic	CONNECTION CONNECTION				
Jacket (optional)	Thermoplastic					

Maximum Pipe / Workpiece Temperature (°C)

Heating Conductor Thickness

Heater Nominal Output	MAXIMUM PERMISSIBLE PIPE TEMP (°C)				
(W/m)	HTP1F	HTP1F - C	HTP1F - CT		
10	112	109	100		
15	94	95	85		
23	78	80	70		

0.3mm

0.4mm

0.5mm 0.6mm 0.7mm

0.8mm 1.00mm

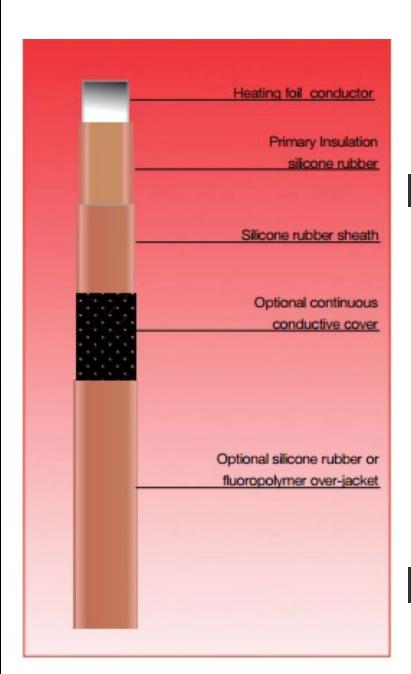
0.6mm 1.25mm

Please note that Neptech Inc.
will size conductors to provide
the required W/m output for
required circuit length



LONGLINE - HTS1F

SERIES RESISTANCE HEATING CABLE



Flexotherm™ offers Longline High Efficiency Series Resistance Heating Cable for heating of moderately long pipelines. Longline Heating Cable minimizes the number of electrical supplied needed, resulting in minimized supply cabling and distribution equipment costs.

FEATURES

- Circuit lengths up to 5km
- Single supply point minimizes supply cabling costs
- High efficiency, flat and flexible
- Freeze protection and heat raising capabilities
- Power outputs up to 60 W/m
- Easy installation in convenient lengths
- Silicone Rubber sheath for flexibility
- Safe and reliable

- Freeze protection
- Process heating of pipe work and vessels
- Piping and Pipelines



LONGLINE - HTS1F

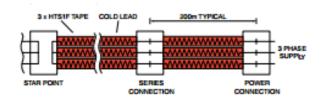
SERIES RESISTANCE HEATING CABLE

Specification

Maximum Temperature	Unenergized 230°C (392°F) 205°C (401°F)					
Minimum Operating Temperature	-80°C (-112°F)					
Minimum Installation Temperature	HTS1F-xS	-40°C (-40°F)				
	HTS1F-xF	-20°C (-4°F)				
Power Supply	Up to 1000v 3	phase				
	According to a	pplication req.				
Power Output	-	Up to 60W/m by design according to application req.				
Construction						
Heating Conductors	Sized to suit application					
Primary Insuiation	Silicone Rubber	Silicone Rubber				
Sheath	Silicone Rubber					
Continuous conductive cover (optional)	T-Copper/Aluminum					
Overjacket (optional)	Silicone Rubber or Fluoropolymer					
Temperature Classification	205°C*	<u> </u>				
	230°C					
	T3 (200°C)	Devidence				
*denotes Fluoropolymer outer jacket	T4 (135°C)	Devices are classified to				
	T5 (100°C)	rated output and conditions of use (ex. Limited pipe temperature).				
	, ,					

Maximum Pipe / Workpiece Temperatures (°C)									
Cat Ref.	Nom. Output	AREA CLASSIFICATION							
	W/m		HAZARDOUS¹						
		Т6	T5	T4	Т3	T2	T1	SAFE ²	
HTS1F	10 20 30 40 50							217 189 156 128 98 50	
HTS1F - X	10 20 30 40 50	47 - - - -	66 32 - - -	107 75 41 - -	181 157 132 108 76 30	217 191 163 133 97 46	217 191 163 133 97 46	217 191 163 133 97 46	
HTS1F - xS	10 20 30 40 50	57 37 - - -	73 53 31 -	112 93 73 51 27	181 166 152 127 92	207 180 157 127 92	207 180 157 127 92	207 180 157 127 92 57	
HTS1F - xF	10 20 30 40 50 60	57 37 - - -	73 53 31 - -	112 93 73 51 27	181 166 152 127 92	192 177 165 127 92	192 177 165 127 92	192 177 165 127 92 57	

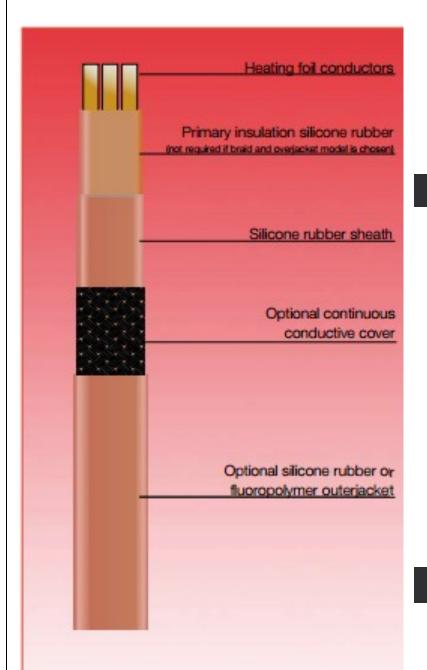
Typical Arrangement





LONGLINE - HTS3F

SERIES RESISTANCE HEATING CABLE



Flexotherm™ offers Longline High Efficiency Series Resistance Heating Cable for heating of moderately long pipelines. Longline Heating Cable minimizes the number of electrical supplied needed, resulting in minimized supply cabling and distribution equipment costs.

FEATURES

- Circuit lengths up to 2km
- Single supply point minimizes supply cabling costs
- High efficiency, flat and flexible
- Freeze protection and heat raising
- International Approvals for hazardous areas
- Power outputs up to 60 W/m
- Easy installation in convenient lengths
- Silicone Rubber sheath for flexibility
- Safe and reliable

- Freeze protection
- Process heating of pipe work and vessels
- · Piping and Pipelines



LONGLINE - HTS3F

SERIES RESISTANCE HEATING CABLE

Specification

Maximum Temperature	Unenergized 2	Maximum Pipe / Worl				
	2	05°C (401°F)	Cat Ref.	Nom. Output		
Minimum Operating Temperature	-80°C (-112°F)			W/m	Т6	T
Minimum Installation Temperature	HTS1F-xS HTS1F-xF	-40°C (-40°F) -20°C (-4°F)	HTS3F	10 20 30 40 50		
Power Supply	Up to 1000v 3 According to a		HTS3F - X	10 20	47	6
Power Output	Up to 60W/m b		30 40 50	- - -	-	
Construction Heating Conductors Primary Insulation Sheath	Sized to suit app Silicone Rubber Silicone Rubber	HTS3F - xS	10 20 30 40 50	57 37 - -	7: 5: 3: -	
Continuous conductive cover (optional) Overjacket (optional)	T-Copper/Alumir Silicone Rubber	or Fluoropolymer	HTS3F - xF	10 20 30 40 50	57 37 - -	73 53 31 -
Temperature Classification *denotes Fluoropolymer outer jacket	205°C* 230°C T3 (200°C) T4 (135°C) T5 (100°C)	Devices are classified to rated output and conditions of use (ex. Limited pipe temperature).	Typica	60 I Arrange		nt LDLE
	T6 (85°C)		Ħ	1	w/w	ww

Maximum Pipe / Workpiece Temperatures (°C)								
Cat Ref.	Nom. Output	AREA CLASSIFICATION						
	W/m		HAZARDOUS¹					
		Т6	T5	T4	ТЗ	T2	T1	SAFE ²
HTS3F	10 20 30 40 50							217 189 156 128 98 50
HTS3F - X	10 20 30 40 50	47 - - - -	66 32 - - -	107 75 41 - -	181 157 132 108 76 30	217 191 163 133 97 46	217 191 163 133 97 46	217 191 163 133 97 46
HTS3F - xS	10 20 30 40 50	57 37 - - -	73 53 31 - -	112 93 73 51 27	181 166 152 127 92	207 180 157 127 92	207 180 157 127 92	207 180 157 127 92 57
HTS3F - xF	10 20 30 40 50	57 37 - - -	73 53 31 - -	112 93 73 51 27	181 166 152 127 92	192 177 165 127 92	192 177 165 127 92	192 177 165 127 92 57

