LLR-HV 230°C

Electrical heating cable for cross country pipelines.

LONGLINE R-HV
Series Resistance Heating Cables

- Circuit lengths up to 60km.
- Available up to 10 kV AC/DC 3 phase.
- Available up to 6kV AC/DC single phase.
- Suitable for use in safe, hazardous and corrosive areas.
- Metal jacket for increased mechanical strength and fire resistance.
- Full range of controls and accessories available.

FEATURES

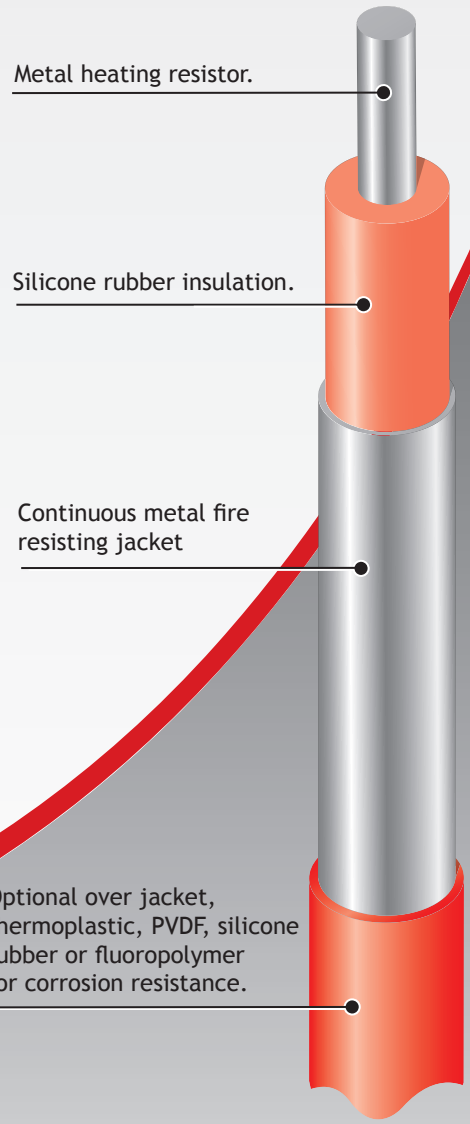
LONGLINE R-HV round heating cables are high performance series resistance heaters for multi- kilometre pipelines where temperature maintenance or freeze protection is required.

They are used where circuit lengths exceed the capabilities of parallel resistance self-regulating or constant power heaters in order to minimise the number of electrical supply points. Circuit lengths of multi-kilometre are possible from a single supply point.

LONGLINE R-HV provides constant power per unit length without voltage drop along the length. The cables may be applied at voltages up to 10kV 3 phase and up to 6kV single phase to maximise circuit lengths.

The continuous metal jacket allows for increased mechanical strength to prevent external damage during installation, whilst also providing superior fire-resisting properties compared with most heating cables.

LONGLINE R-HV cables may be used in safe and hazardous classified locations.



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HEAT TRACE

The Heat Tracing Authority™

LLDS0306 (07012026) Issue 8

SPECIFICATION

MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE (Power OFF): 230°C (446°F)

MINIMUM INSTALLATION TEMPERATURE: -40°C (-40°F)

MINIMUM OPERATING TEMPERATURE: -60°C (-76°F)

RATED VOLTAGE: up to 10kV AC/DC 3-phase

DIMENSIONS/ELECTRICAL RESISTANCE:

Type Ref	Diameter (mm) 'D'	Min Bend radius	Nominal Res.@20°C Ω/km
HTS1FAR-A 40	14.9	150mm	0.740
HTS1FAR-A 60	16.5	170mm	0.458

APPROVAL DETAILS:

ATEX - CML 18ATEX3378X
IECEx - CML 15.0057X
UKEX - CML 21UKEX31152X
CCC - 2022312312000164

ORDERING INFORMATION:

Options

HTS1FAR-A Continuous metal fire resisting jacket.
HTS1FAR-AT Thermoplastic outerjacket over a continuous metal jacket.
HTS1FAR-AS Silicone outerjacket over a continuous metal jacket.
HTS1FAR-AF Fluoropolymer outerjacket over a continuous metal jacket.
HTS1FAR-AP PVDF outerjacket over a continuous metal jacket.

Example: **HTS1FAR-A F 40**

Single conductor longline
Alloy conductor round
Alloy overjacket
Fluoropolymer overjacket
Conductor cross sectional area

ATEX, IECEx & UKEX MARKINGS:

Ⓔx II 2 GD
Ex 60079-30-1 IIC T* Gb
Ex 60079-30-1 IIIC T**°C Db IP67

EN 60079-0: 2018
EN 60079-30-1: 2017
EN 60079-31: 2014

MAXIMUM PIPE/WORKPIECE TEMPERATURE (°C)

Cat Ref	Nom. Output (W/m)	Area Classification Hazardous T6	T5	T4	T3	T2	T1	Safe
HTS1FAR-A 40	10	49	68	112	189	230	230	230
	20	10	34	85	177	230	230	230
	30			54	152	230	230	230
	40			23	130	230	230	230
	50				107	228	228	228
HTS1FAR-A 60	10	53	71	114	190	230	230	230
	20	25	44	91	174	230	230	230
	30		14	66	159	230	230	230
	40			40	140	230	230	230
	50				121	230	230	230

CONSTRUCTION:

Heating Conductors:	Sized to suit application
Primary Insulation:	Silicone Rubber
Continuous conductive cover:	Aluminum
Over Jacket:	Silicone Rubber Fluoropolymer Thermoplastic PVDF

ACCESSORIES:

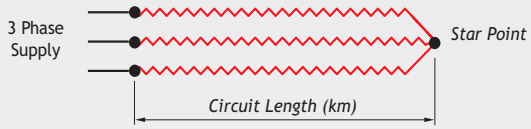
HLRS - Splice connection or termination kit for field fabrication. See instructions:
- **SK/HTS1FAR/LRG**
- **TK/HTS1FAR/LRG**

Further Information:
Please consult the appropriate termination instructions and the Heat Trace, Design,Installation and Maintenance Manual (HTDIMM 010) for further details.

LONGLINE HTS1FAR

Relationship between circuit length (m), power output (W/m) and 3 phase supply voltage.

Circuit Configuration



NOTES:

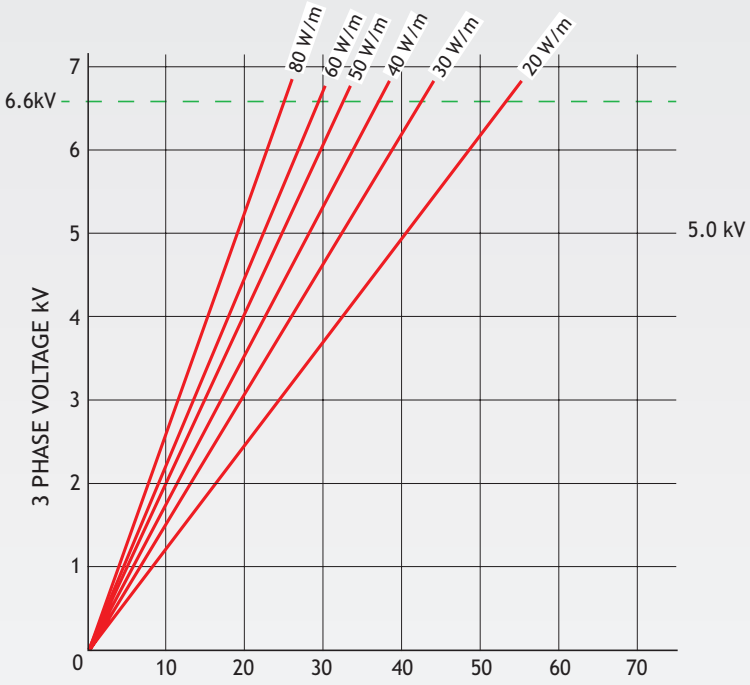
1) Power outputs shown are for 3 heating cables on a pipe at 60°C.

2) For pipe temperatures above 60°C, de-rate power outputs by 0.4W/m per degree centigrade.

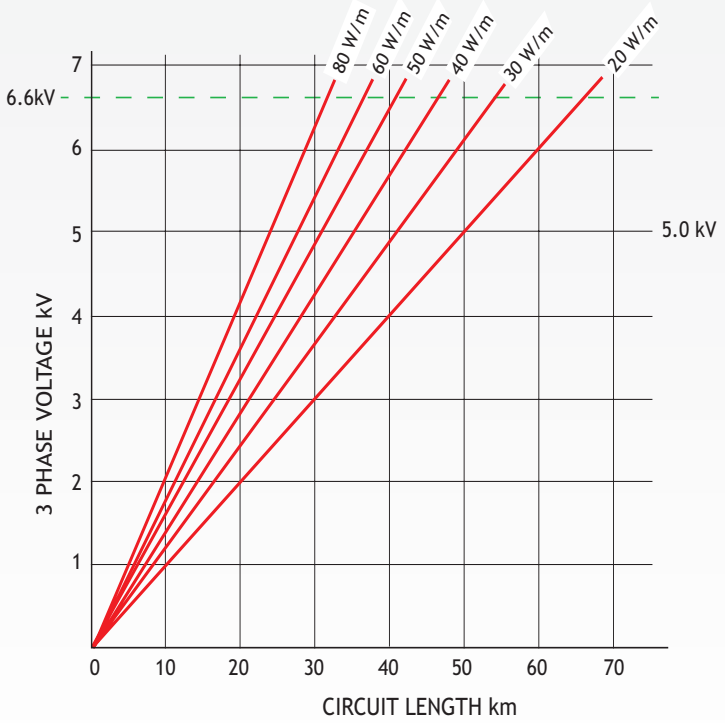
3) For pipe temperatures less than 60°C, increase power outputs by 0.4W/m per degree centigrade.

4) The 3 Phase Voltage graphs show examples of circuit lengths up to 5kv. If you require any cirucuit lengths up to 10Kv please request the extra informtation.

TYPE: HTS1FAR / 40



TYPE: HTS1FAR / 60

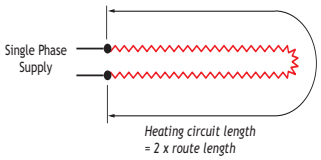


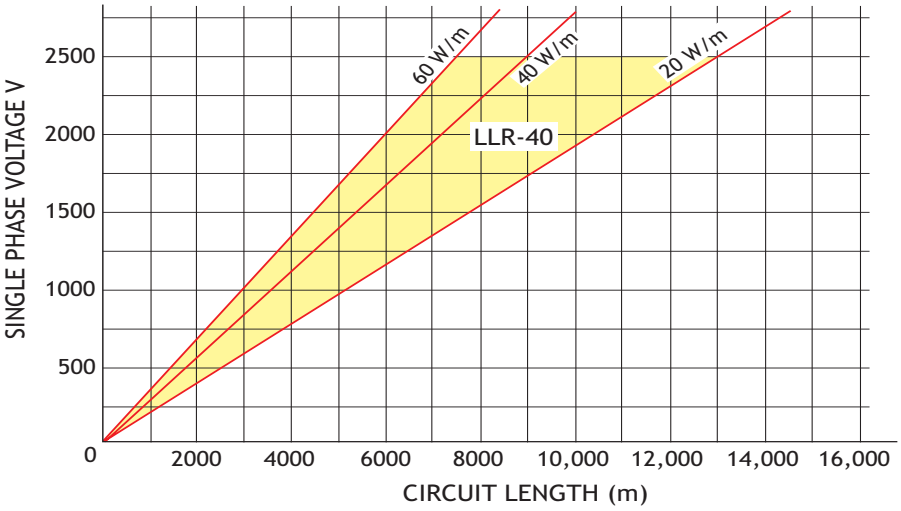
SPECIFICATION

Single Phase - Power Output Graphs

Relationship between circuit length (m), power output (W/m) and single phase supply voltage.

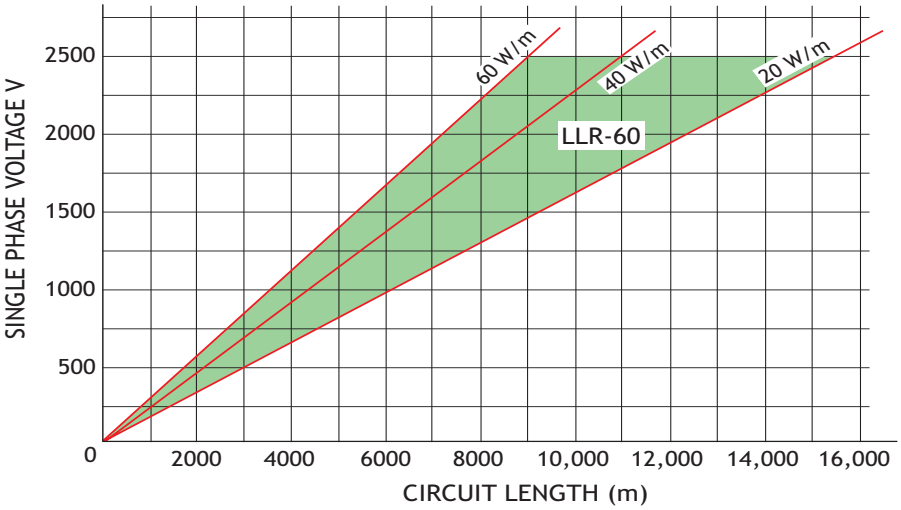
Circuit Configuration



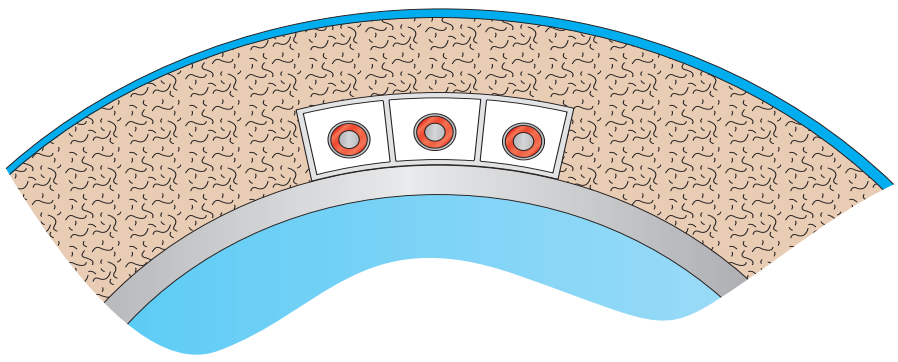


NOTES:

1)The Single Phase Voltage graphs show examples of circuit lengths up to 2.5kv. If you require any circuit lengths up to 6Kv please request the extra information.



Typical heating cable installation on pipe:



Heat Trace Ltd, Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, England.
Tel: +44 (0)1928 726451
www.heat-trace.com Email: info@heat-trace.com