

MI Heating Element Datasheets



Thermal Resources Management LTD
TEMPERATURE HOUSE
 21 Sedling Road
 Wear Industrial Estate
 Washington
 Tyne & Wear
 NE38 9BZ
 United Kingdom

Tel.: +44(0)191 4168884
 Fax: +44(0)191 4192345
 Email: sales@trmltd.co.uk

Heating Element Data Sheet - Standard Stainless Steel or Cupro Nickel Single Conductor Element

To order please specify the following:

1. Part reference (see example).
2. Design lengths usually specified in metres, including heating cable length, lead-in cable length and tail length in mm.
3. Lead-in cable sheath material.
4. Any accessories required e.g. thread adaptors.

Part Reference Example:
 See table 1 for cables and specifications

E 321 - A 1600

Categorise Element
 Sheath Material
 Conductor Material
 Cable Resistance in Ohms/km

Cable Reference	Cable Diameter (mm)	Conductor Resistance $\Omega/m@20^\circ C$	Lead-In Cable*			
			Size	Dia. (mm)	Seal Ref.**	Gand Ref.
H321-A10K	3.2	10.00	C2.5	5.30	TYP1/1H2.520	RGM1H2.520
H321-A6300	3.2	6.30				
H321-A4000	3.2	4.00				
H321-A2500	3.4	2.50				
H321-A1600	3.6	1.60				
H321-A1000	3.9	1.00				
H321-A630	4.3	0.63				
H321-A400	4.7	0.40				
H321-A250	5.3	0.25				
H321-A160	6.5	0.16				
H400-B1600	3.2	1.60	C2.5	5.30	TYP1/1H2.520	RGM1H2.520
H400-B1000	3.4	1.00				
H400-B630	3.7	0.63				
H400-B400	4.0	0.40				
H400-B250	4.4	0.25				
H400-B160	4.9	0.16				
H400-B1600	3.2	1.60				
H400-B1000	3.4	1.00				
H400-B630	3.7	0.63				
H400-B400	4.0	0.40				
H400-B250	4.4	0.25				
H400-B160	4.9	0.16				

Sheath materials: 321 = 321 St.Stl
 400 = Cupro Nickel
 600 = Inconel 600
 (Substitute 321 with 600 for Inconel 600 cables, e.g. H600-A10K)

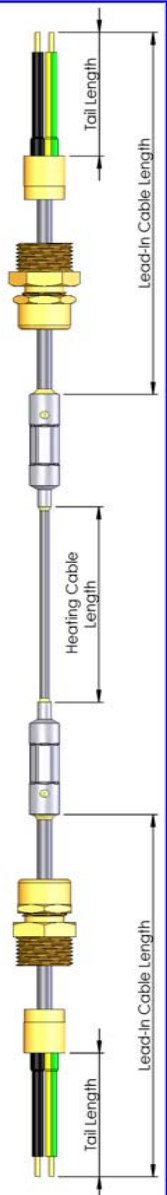
Full Lead-in cable ref.: W321*-C2.5-750V
 *Sheath materials: 321 = 321St.Stl
 400 = Cupro Nickel
 122 = Copper
 (HDPE served copper also available, add -HDPE to lead-in cable reference)

For details of termination seals available see DS0005.
 **Substitute TYP1 with either TYP2 or TYP3 depending on seal type required.

Notes:
 Maximum sheath temperatures: Stainless Steel = 600°C
 Cupro Nickel = 400°C

Conductor resistance tolerance $\pm 10\%$
 Standard tail lengths: 150mm, 300mm & 450mm.

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Heating Element Data Sheet - Standard Copper or Copper HDPE served Single Conductor Element

To order please specify the following:

1. Part reference (see example).
2. Design lengths usually specified in metres, including heating cable length, lead-in cable length and tail length in mm.
3. Lead-in cable sheath material.
4. Any accessories required e.g. thread adaptors.

Part Reference Example:
 See table 1 for cables and specifications

E 122 - D 1250

Categorise Element
 Sheath Material
 Conductor Material
 Cable Resistance in Ohms/km

Cable Reference	Cable Diameter (mm)	Conductor Resistance $\Omega/m@20^\circ C$	Lead-In Cable*			
			Size	Dia. (mm)	Seal Ref.**	Gand Ref.
H122-D2000	2.8	4.6	C2.5	5.30	TYP1/1H2.520	RGM1H2.520
H122-D1250	2.8	4.6				
H122-D600	3.5	5.3				
H122-D530	4.0	5.8				
H122-D450	4.0	5.8				
H122-D315	4.3	6.1				
H122-D220	4.5	6.3				
H122-D140	4.9	6.7				
H122-D100	5.2	7.0				
H122-C63	3.2	5.0				
H122-C40	3.4	5.2	C6.0	6.40	TYP1/1H620	RGM1H620
H122-C25	3.7	5.5				
H122-C17	4.6	6.4				
H122-C11	4.9	6.7				
H122-C7	5.3	7.1				
H122-C4	5.9	7.7				
H122-C40	3.4	5.2				
H122-C25	3.7	5.5				
H122-C17	4.6	6.4				
H122-C11	4.9	6.7				
H122-C7	5.3	7.1	C10.0	7.30	TYP1/1H1025	RGM1H1025
H122-C4	5.9	7.7				

* Lead-in cable is available with HDPE served copper and bare copper sheath
 ** Heating cables available with HDPE serving, if required add '-HDPE' to the end of the cable reference
 For details of termination seals available see DS0005
 ***Substitute TYP1 with either TYP2 or TYP3 depending on seal type required

Notes:
 Maximum sheath temperatures: Bare Copper = ???°C
 HDPE Served Copper = ???°C

Conductor resistance tolerance $\pm 10\%$
 Standard tail lengths: 150mm, 300mm & 450mm.

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