

# MINERAL INSULATED HEATING CABLE



HTS Mineral insulated heating cables and units are made up of a metal conductor embedded in a compacted Magnesium oxide (inorganic) insulant inside a metal sheath. The inorganic nature of the construction enables the cables to operate at high temperatures for long periods of time in extremely harsh environments e.g. petro-chemical, reactor vessels and other applications where the integrity of the cable is most important.

## OPERATING TEMPERATURES

- Cable with copper sheath typically up to 200°C
- Cable with cupronickel sheath typically up to 400°C
- Cable with stainless steel and nickel alloys sheath typically up to 600°C

## ELECTRICAL PARAMETERS:

- Supply voltage up to 500Vac (assembled units)
- Supply voltage up to 750Vac (cable)

## APPROVALS:

- ISO 9001
- ISO 14001

## ATEX



**Ex II 2G**

**Ex IIC T1 to T6 Gb**

The mineral insulated heating units are intended for use in Potentially Explosive Atmospheres Directive 94/9/EC fulfils the provisions of the following standards: EN 60079-0:2009 EN 60079-7:2007 EN 60079-30-1:2007

## IEX Ex IIC T1 to T6 Gb

Certificate No: IECEx SIR 12.0142

The mineral insulated heating units are intended for use in Potentially Explosive Atmospheres Directive 94/9/EC fulfils the provisions of the following standards: IEC 60079-0:2011 IEC 60079-7:2006 IEC 60079-30-1:2007

## CSA

Certificate No: 1491691

CLASS 2872 01 - HEATERS - Cable and Cable Sets

CLASS 2872 81 - HEATERS - Cable and Cable Sets - Certified to US Standards Certificate No: 1735156

CLASS 2878 01 - HEATERS - Cable and Cable Sets - For Hazardous Locations

CLASS 2878 81 - HEATERS-Cable and Cable Sets - For Hazardous Locations-Certified to U.S.

Standards Class I, Div. 2, Groups A, B, C, and D; Class II, Div. 2, Groups F and G; Class III, Div. 2;

Temperature Coded T1 to T6:

## GOST-5

Certification No: 0454156 (MICC Thermal Solutions)

## CONSTRUCTION

Sheath material: one of the following:

- Copper
- Cupronickel 70/30
- Stainless steels of AISI 300x range
- Alloys 600, and 825
- Other materials on request.

No. of conductors: 1 or 2

Conductor material: one of the following:

- Nichrome 80/20
- Constantan
- Copper
- Copper-Nickel alloys

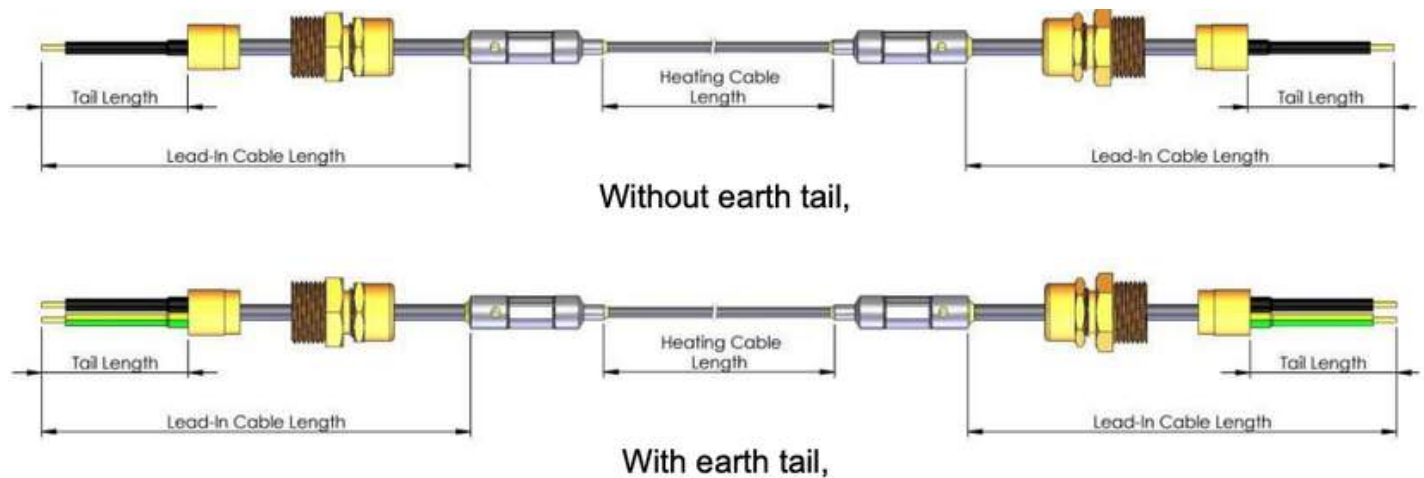
Insulation material: Magnesium Oxide (MgO)



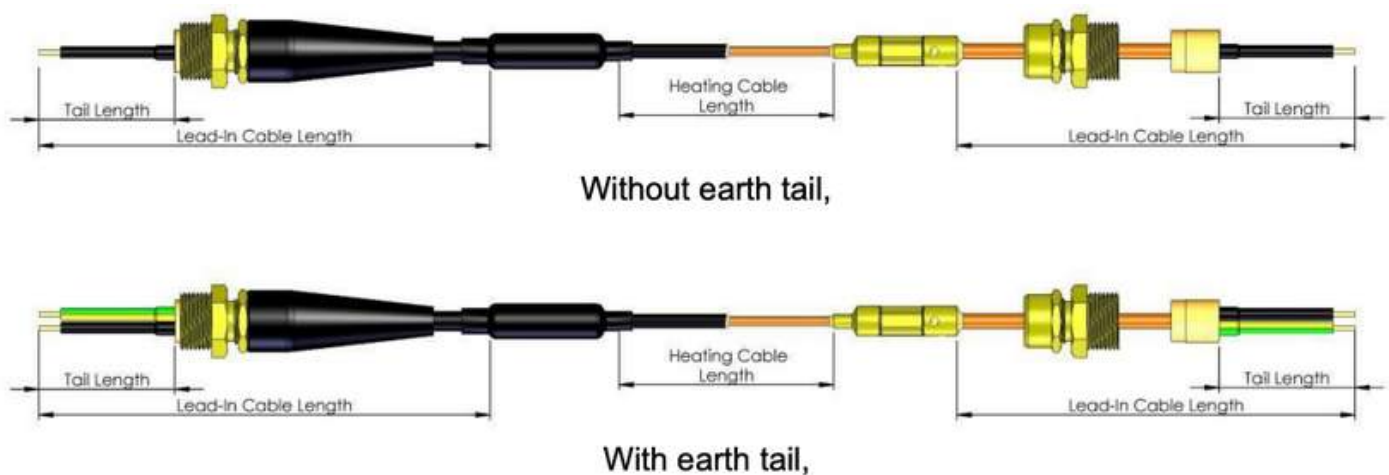
## HEATING UNITS DESIGN TYPES

### Design B

Single core heating cable with Stainless Steel, Cupronickel or Nickel alloy sheath



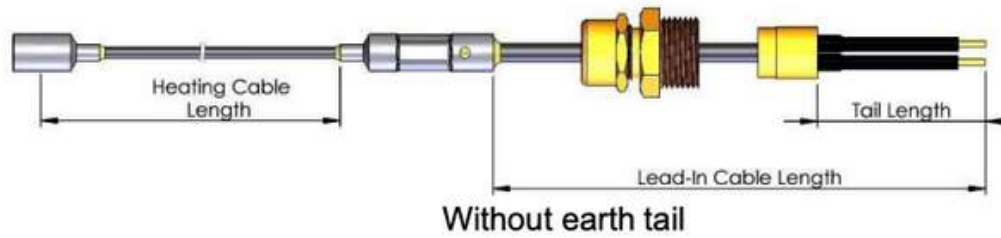
Single core heating cable with Copper sheath bare (right) or HDPE served (left)



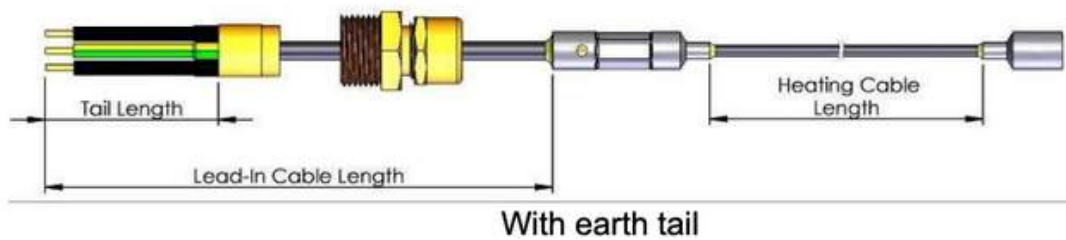
## HEATING UNITS DESIGN TYPES

### Design D

Twin core heating cable with Stainless Steel, Cupronickel, or Nickel alloy sheath

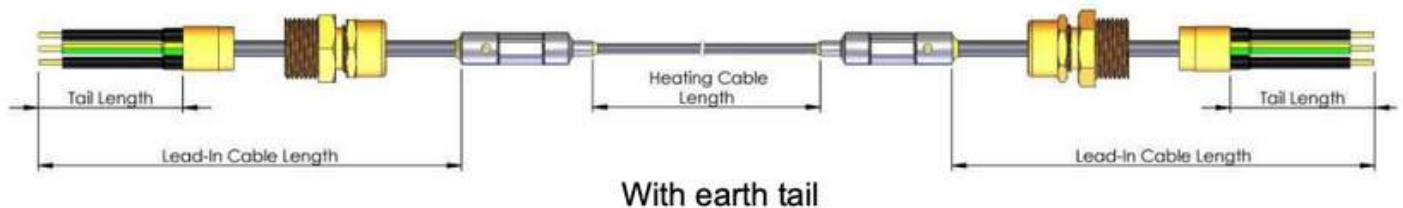
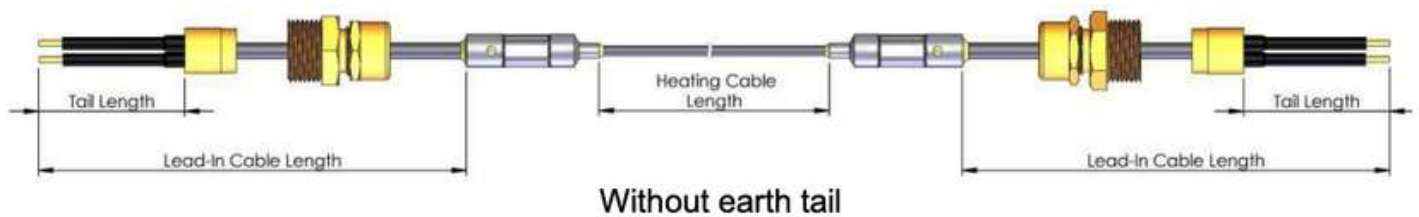


Twin core heating cable with Stainless Steel, Cupronickel or Nickel alloy sheath



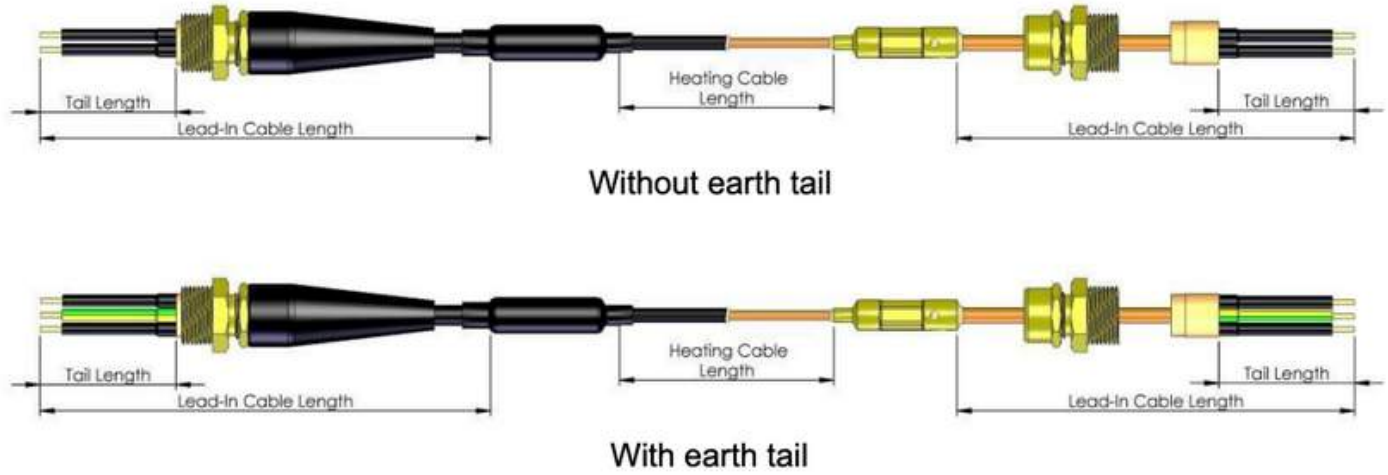
### Design E

Twin core heating cable with Stainless Steel, Cupronickel, or Nickel alloy sheath



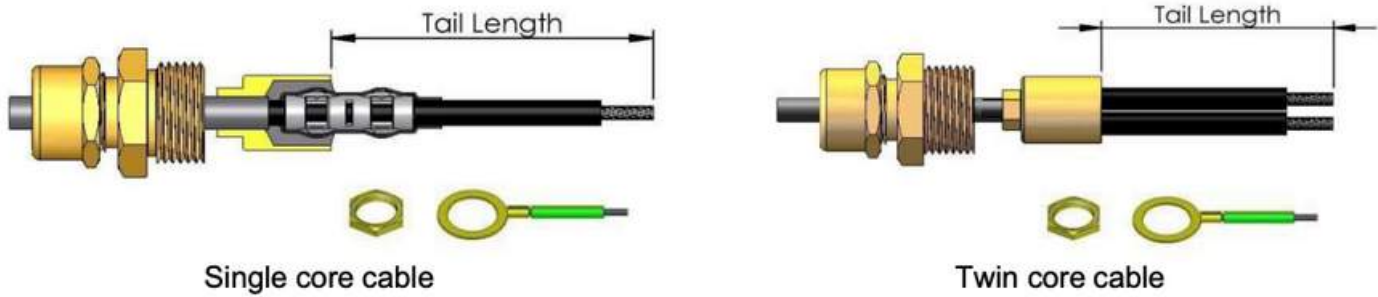
## HEATING UNITS DESIGN TYPES

Twin core heating cable with Copper sheath bare (right) or HDPE served (left)



## TERMINATION TYPES

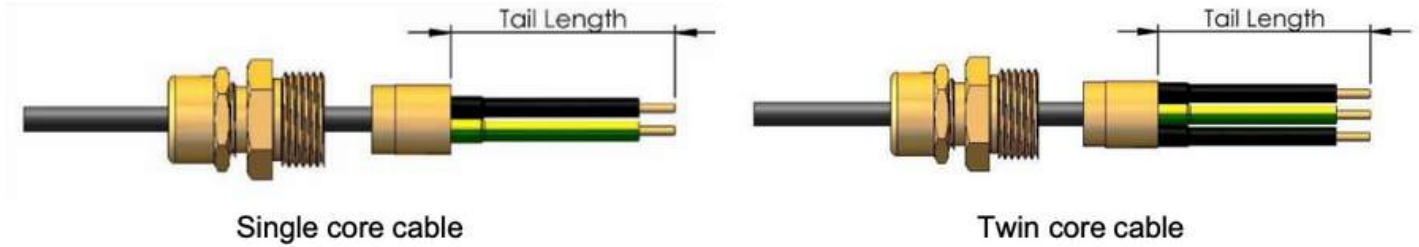
### Type 1



Seal Reference	<b>T1</b>
Description	ATEX approved seal for use in hazardous area terminations
Conductor Type	Flexible
Earth Tail Type	Flexible earth tag with locknut
Pot Type	Crimp on pot
Gland Thread	M20x1.5 (Other sizes on request)
Standard Tail Lengths	150 mm, 300 mm, 450 mm

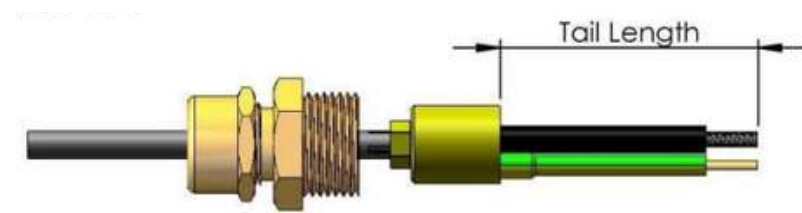
## TERMINATION TYPES

### Type 2



Seal Reference	<b>T2</b>
Description	ATEX approved seal for use in hazardous area terminations
Conductor Type	Solid
Earth Tail Type	Solid
Pot Type	Braze on pot
Gland Thread	M20x1.5 (Other sizes on request)
Standard Tail Lengths	150 mm, 300 mm, 450 mm

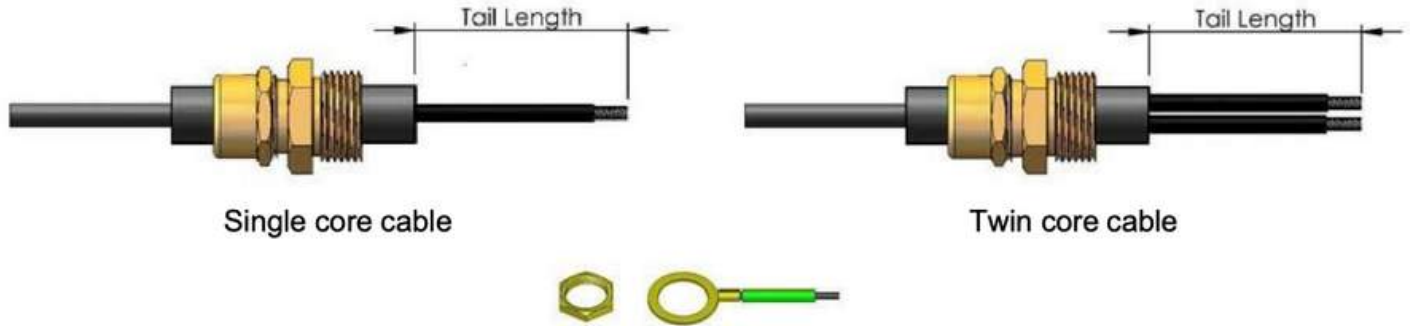
### Type 3



Seal Reference	<b>T3</b>
Description	Wiring cable flexible tail seal
Conductor Type	Flexible
Earth Tail Type	Solid
Pot Type	Crimp on pot with earth tail
Gland Thread	M20x1.5 (Other sizes on request)
Standard Tail Lengths	150 mm, 300 mm, 450 mm

## TERMINATION TYPES

### Type 4



Seal Reference	<b>T4</b>
Description	Long reach seal with on-pot gland CSA and ATEX approved for use in hazardous area terminations
Conductor Type	Flex
Earth Tail Type	Flexible earth tag with locknut (optional depending on application)
Pot Type	Braze on long reach pot
Gland Thread	M20x1.5 (Other sizes on request)
Gland Material	Brass, Nickel plated brass, Stainless steel
Standard Tail Lengths	150 mm, 300 mm, 450 mm

## HEATING UNIT REFERENCES

		<table border="1"> <tr> <td><b>E</b></td> <td><b>H600-2A3300</b></td> <td><b>T1</b></td> <td><b>40</b></td> <td><b>1.45</b></td> <td><b>450</b></td> </tr> <tr> <td><b>D</b></td> <td><b>H2H200-3</b></td> <td><b>T2</b></td> <td><b>9</b></td> <td><b>1.80</b></td> <td><b>300</b></td> </tr> <tr> <td><b>B</b></td> <td><b>H321-A10K</b></td> <td><b>T1</b></td> <td><b>25</b></td> <td><b>1.15</b></td> <td><b>150</b></td> </tr> </table>	<b>E</b>	<b>H600-2A3300</b>	<b>T1</b>	<b>40</b>	<b>1.45</b>	<b>450</b>	<b>D</b>	<b>H2H200-3</b>	<b>T2</b>	<b>9</b>	<b>1.80</b>	<b>300</b>	<b>B</b>	<b>H321-A10K</b>	<b>T1</b>	<b>25</b>	<b>1.15</b>	<b>150</b>
<b>E</b>	<b>H600-2A3300</b>	<b>T1</b>	<b>40</b>	<b>1.45</b>	<b>450</b>															
<b>D</b>	<b>H2H200-3</b>	<b>T2</b>	<b>9</b>	<b>1.80</b>	<b>300</b>															
<b>B</b>	<b>H321-A10K</b>	<b>T1</b>	<b>25</b>	<b>1.15</b>	<b>150</b>															
Unit Design	<p>“B” — Single core Heating Unit design <b>B</b></p> <p>“D” — Twin core Heating Unit design <b>D</b></p> <p>“E” — Twin core Heating Unit design <b>E</b></p>	<p>↑</p> <p>↑</p> <p>↑</p>																		
Heating	For cable reference Cable see tables below for reference	<p>↑</p>																		
Type of Termination	<p>“T1” — Type <b>1</b></p> <p>“T2” — Type <b>2</b></p> <p>“T3” — Type <b>3</b></p>	<p>↑</p> <p>↑</p> <p>↑</p>																		
Heated Length	Length of Heating Cable In Meters	<p>↑</p>																		
Cold Lead	Length of cold lead-in cable and tails, in meters	<p>↑</p>																		
Tail length	Tails length in mm	<p>↑</p>																		

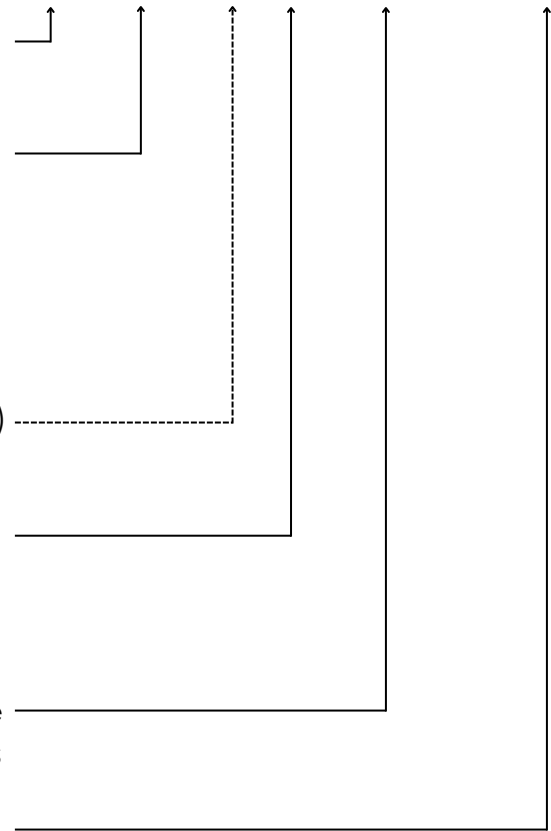
# MINERAL INSULATED HEATING CABLE



## HEATING CABLE REFERENCE

- Category "H" — Heating cable
  
- Sheath Material
  - 122 — Copper
  - 321 — AISI321 Stainless Steel
  - 316L — AISI316L Stainless Steel
  - 400 — Cupronickel 70/30
  - 600 — Inconel 600
  - 825 — Alloy 825
  
- Number of conductors
  - 1 — One conductor (omitted by default)
  - 2 — Two conductors
  
- Conductor Constant Reference
  - "A" — Nichrome material
  - "C" — Copper
  - "D" — Copper-Nickel alloys
  
- Conductor Resistance
  - Resistance in Ohm/1000m (km) for single conductor or for loop of two conductors
  
- Suffix
  - Additional information, such as
  - "-300V" — Voltage rating If not 500V
  - "-HDPE" — for HDPE served cables

<b>H</b>	<b>600</b>	<b>-</b>	<b>2</b>	<b>A</b>	<b>6500</b>		
<b>H</b>	<b>122</b>	<b>-</b>		<b>D</b>	<b>100</b>	<b>-</b>	<b>HDPE</b>

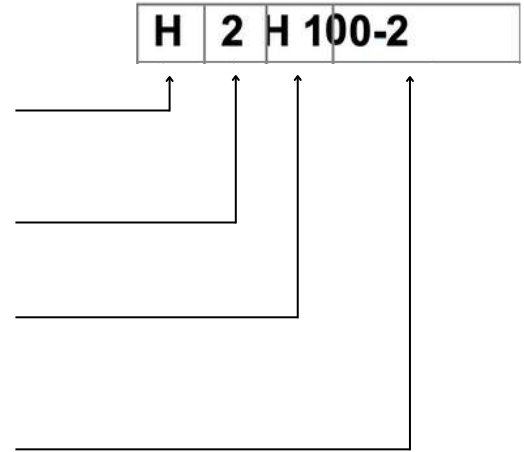


# MINERAL INSULATED HEATING CABLE



## HEATING CABLE REFERENCE

Category	"L" — Light duty 300 V rated cable "H" — Heavy duty 600 V rated cable
Number of conductors	Two conductors
Sheath	"H" — Alloy 825 material "S" — AISI 321
Conductors Resistance	Conductors loop resistance in Ohm/ft with decimal position stated after "—"



For example:

L2H100-2 has resistance:

$$100 \times 10^{-2} = 1 \text{ Ohm/ft (3.28 Ohm/m)}$$

$$775 \times 10^{-4} = 0.0775 \text{ Ohm/ft (0.254 Ohm/m)}$$



## HEATING CABLE REFERENCE

### Single Core Heating Cable with Stainless Steel, Inconel 600 and Alloy 825 sheath European 500 V Range

ATEX Certified

Heating Cable Reference			Cable diameter over metal sheath	Conductor resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
AISI 321 Sheath	Inconel 600 Sheath	Alloy 825 Sheath	mm	Ohm/m	sq. mm	mm	T1 or T2 or T3 &	RGM &
<b>Standard range</b>								
H321-A10K	H600-A10K	H825-A10K	3.20	10.000	2.50	5.3	1H2.520	1H2.520
H321-A6300	H600-A6300	H825-A6300	3.20	6.300	2.50	5.3	1H2.520	1H2.520
H321-A4000	H600-A4000	H825-A4000	3.20	4.000	2.50	5.3	1H2.520	1H2.520
H321-A2500	H600-A2500	H825-A2500	3.40	2.500	2.50	5.3	1H2.520	1H2.520
H321-A1600	H600-A1600	H825-A1600	3.60	1.600	2.50	5.3	1H2.520	1H2.520
H321-A1000	H600-A1000	H825-A1000	3.90	1.000	2.50	5.3	1H2.520	1H2.520
H321-A630	H600-A630	H825-A630	4.30	0.630	2.50	5.3	1H2.520	1H2.520
H321-A400	H600-A400	H825-A400	4.70	0.400	2.50	5.3	1H2.520	1H2.520
H321-A250	H600-A250	H825-A250	5.30	0.250	6.00	6.4	1H620	1H620
H321-A160	H600-A160	H825-A160	6.50	0.160	6.00	6.4	1H620	1H620
<b>Auxiliary range</b>								
H321-A5200	H600-A5200	H825-A5200	3.20	5.200	2.50	5.3	1H2.520	1H2.520
H321-A3300	H600-A3300	H825-A3300	3.40	3.300	2.50	5.3	1H2.520	1H2.520
H321-A1250	H600-A1250	H825-A1250	3.90	1.250	2.50	5.3	1H2.520	1H2.520
H321-A800	H600-A800	H825-A800	4.30	0.800	2.50	5.3	1H2.520	1H2.520
H321-A500	H600-A500	H825-A500	4.70	0.500	2.50	5.3	1H2.520	1H2.520

Other sheath materials on request

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

## HEATING CABLE REFERENCE

### Single Core Heating Cable with Cupronickel and Stainless Steel sheath European 500 V Range

ATEX Certified

Heating Cable Reference			Cable diameter over metal sheath	Conductor resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
AISI 321 Sheath	AISI 316L Sheath	Cupronickel Sheath	mm	Ohm/m	sq. mm	mm	T1 or T2 or T3 &	RGM &
H321-B1600	H316L-B1600	H400-B1600	3.20	1.600	2.50	5.3	1H2.520	1H2.520
H321-B1000	H316L-B1000	H400-B1000	3.40	1.000	2.50	5.3	1H2.520	1H2.520
H321-B630	H316L-B630	H400-B630	3.70	0.630	2.50	5.3	1H2.520	1H2.520
H321-B400	H316L-B400	H400-B400	4.00	0.400	2.50	5.3	1H2.520	1H2.520
H321-B250	H316L-B250	H400-B250	4.40	0.250	2.50	5.3	1H2.520	1H2.520
H321-B160	H316L-B160	H400-B160	4.90	0.160	6.00	6.4	1H620	1H620
H321-C63	H316L-C63	H400-C63	3.20	0.063	2.50	5.3	1H2.520	1H2.520
H321-C40	H316L-C40	H400-C40	3.40	0.040	2.50	5.3	1H2.520	1H2.520
H321-C25	H316L-C25	H400-C25	3.70	0.025	6.00	6.4	1H620	1H620
H321-C17	H316L-C17	H400-C17	4.60	0.017	6.00	6.4	1H620	1H620
H321-C11	H316L-C11	H400-C11	4.90	0.011	6.00	6.4	1H620	1H620
H321-C7	H316L-C7	H400-C7	5.30	0.007	10.00	7.3	1H1020	1H1020
H321-C4	H316L-C4	H400-C4	5.90	0.004	16.00	8.3	1H1620	1H1620

Other sheath materials on request

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

## HEATING CABLE REFERENCE

### Single Core Heating Cable with Copper sheath bare and HDPE served European 500 V Range

ATEX Certified

Cable Reference		Cable diameter over metal sheath	Cable diameter over HDPE	Conductor resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
Bare	HDPE served	mm	mm	Ohm/m	sq. mm	mm	T1 or T2 or T3 &	RGM &
H122-D2000-300V	H122-D2000-300V-HDPE	2.80	4.60	2.000	2.50	5.3	1H2.520	1H2.520
H122-D1250-300V	H122-D1250-300V-HDPE	2.80	4.60	1.250	2.50	5.3	1H2.520	1H2.520
H122-D800	H122-D800-HDPE	3.50	5.30	0.800	2.50	5.3	1H2.520	1H2.520
H122-D630	H122-D630-HDPE	4.00	5.80	0.630	2.50	5.3	1H2.520	1H2.520
H122-D450	H122-D450-HDPE	4.00	5.80	0.450	2.50	5.3	1H2.520	1H2.520
H122-D315	H122-D315-HDPE	4.30	6.10	0.315	2.50	5.3	1H2.520	1H2.520
H122-D220	H122-D220-HDPE	4.50	6.30	0.220	2.50	5.3	1H2.520	1H2.520
H122-D140	H122-D140-HDPE	4.90	6.70	0.140	2.50	5.3	1H2.520	1H2.520
H122-D100	H122-D100-HDPE	5.20	7.00	0.100	2.50	5.3	1H2.520	1H2.520
H122-C63	H122-C63-HDPE	3.20	5.00	0.063	2.50	5.3	1H2.520	1H2.520
H122-C40	H122-C40-HDPE	3.40	5.20	0.040	2.50	5.3	1H2.520	1H2.520
H122-C25	H122-C25-HDPE	3.70	5.50	0.250	6.00	6.4	1H620	1H620
H122-C17	H122-C17-HDPE	4.60	6.40	0.017	6.00	6.4	1H620	1H620
H122-C11	H122-C11-HDPE	4.90	6.70	0.011	6.00	6.4	1H620	1H620
H122-C7	H122-C7-HDPE	5.30	7.10	0.007	10.00	7.3	1H1020	1H1020
H122-C4	H122-C4-HDPE	5.90	7.70	0.004	16.00	8.3	1H1620	1H1620

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

## HEATING CABLE REFERENCE

### Single Core Heating Cable with Copper sheath bare and HDPE served North American Range

CSA Certified

Cable Reference		Cable diameter over metal sheath	HDPE served cable diameter	Conductor resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
Bare	HDPE served	mm	mm	Ohm/m	sq. mm	mm	T1 or T2 or T3 &	RGM &
H122-D2000-300V-CD	H122-D2000-300V-HDPE-CD	2.80	5.80	2.000	2.50	5.3	1H2.520	1H2.520
H122-D1280-600V-CD	H122-D1280-600V-HDPE-CD	3.70	6.70	1.280	2.50	5.3	1H2.520	1H2.520
H122-D984-600V-CD	H122-D984-600V-HDPE-CD	4.00	7.00	0.984	2.50	5.3	1H2.520	1H2.520
H122-D656-600V-CD	H122-D656-600V-HDPE-CD	4.00	7.00	0.656	2.50	5.3	1H2.520	1H2.520
H122-D492-600V-CD	H122-D492-600V-HDPE-CD	4.00	7.00	0.492	2.50	5.3	1H2.520	1H2.520
H122-D345-600V-CD	H122-D345-600V-HDPE-CD	4.20	7.20	0.345	2.50	5.3	1H2.520	1H2.520
H122-D262-600V-CD	H122-D262-600V-HDPE-CD	4.30	7.30	0.262	2.50	5.3	1H2.520	1H2.520
H122-D197-600V-CD	H122-D197-600V-HDPE-CD	4.45	7.45	0.197	2.50	5.3	1H2.520	1H2.520
H122-D131-600V-CD	H122-D131-600V-HDPE-CD	4.90	7.90	0.131	2.50	5.3	1H2.520	1H2.520
H122-D98-600V-CD	H122-D98-600V-HDPE-CD	5.20	8.20	0.098	2.50	5.3	1H2.520	1H2.520
H122-D66-600V-CD	H122-D66-600V-HDPE-CD	5.20	8.20	0.066	2.50	5.3	1H2.520	1H2.520
H122-C33-600V-CD	H122-C33-600V-HDPE-CD	4.60	7.60	0.033	2.50	5.3	1H2.520	1H2.520
H122-C21-600V-CD	H122-C21-600V-HDPE-CD	4.60	7.60	0.021	2.50	5.3	1H2.520	1H2.520
H122-C13-600V-CD	H122-C13-600V-HDPE-CD	4.60	7.60	0.013	2.50	5.3	1H2.520	1H2.520

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

### Twin Core Heating Cable with Inconel and Stainless Steel sheath Standard European 500 V Range

ATEX Certified

Cable Reference		Cable diameter over metal sheath	Conductor loop resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
Inconel 600 Sheath	AISI 321 Sheath	mm	Ohm/m	sq. mm	mm	T1 or T2 &	RGM &
H600-2A11K	H321-2A11K	4.80	22.000	2.50	8.7	2H2.520	2H2.520
H600-2A6500	H321-2A6500	5.30	13.00	2.50	8.7	2H2.520	2H2.520
H600-2A3300	H321-2A3300	5.70	6.600	2.50	8.7	2H2.520	2H2.520
H600-2A1650	H321-2A1650	6.50	3.300	2.50	8.7	2H2.520	2H2.520
H600-2B1150	H321-2B1150	6.00	2.300	2.50	8.7	2H2.520	2H2.520

## HEATING CABLE REFERENCE

### Twin Core Heating Cable with Cupronickel sheath Standard European 500 V Range

ATEX Certified

Cable Reference	Cable diameter over metal sheath	Conductor loop resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
<b>Cupronickel Sheath</b>	mm	Ohm/m	sq. mm	mm	<b>T1 or T2 &amp;</b>	<b>RGM &amp;</b>
H400-2B1250	5.70	2.500	2.50	8.7	2H2.520	2H2.520
H400-2B800	6.00	1.600	2.50	8.7	2H2.520	2H2.520
H400-2B500	6.70	1.000	2.50	8.7	2H2.520	2H2.520
H400-2B315	7.40	0.630	2.50	8.7	2H2.520	2H2.520
H400-2B160	8.80	0.320	6.00	10.9	2H620	2H620
H400-2B80	10.80	0.160	6.00	10.9	2H620	2H620

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

### Twin Core Heating Cable with Copper sheath Standard European 500 V Range

ATEX Certified

Cable Reference		Cable diameter over metal sheath	HDPE served cable diameter	Conductor loop resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
<b>Bare</b>	<b>HDPE served</b>	mm	mm	Ohm/m	sq. mm	mm	<b>T1 or T2 &amp;</b>	<b>RGM &amp;</b>
H122-2D800	H122-2D800-HDPE	6.00	7.80	1.600	2.50	8.7	2H2.520	2H2.520
H122-2D500	H122-2D500-HDPE	6.50	8.30	1.000	2.50	8.7	2H2.520	2H2.520
H122-2D315	H122-2D315-HDPE	7.20	9.00	0.630	2.50	8.7	2H2.520	2H2.520
H122-2D200	H122-2D200-HDPE	8.00	9.80	0.400	2.50	8.7	2H2.520	2H2.520
H122-2D100	H122-2D100-HDPE	9.70	11.50	0.200	2.50	8.7	2H2.520	2H2.520

## HEATING CABLE REFERENCE

### Single Core Heating Cable with Stainless Steel and alloy 825 sheath North American 600V Range

CSA Certified

Cable Reference		Cable diameter over metal sheath	Conductor resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
AISI 321 Sheath	Alloy 825 Sheath	mm	Ohm/m	sq. mm	mm	T1 or T2 &	RGM &
H1S200-2	H1H200-2	3.7	6.56	2.50	5.3	1H2.520	1H2.520
H1S160-2	H1H160-2	4.1	5.25	2.50	5.3	1H2.520	1H2.520
H1S130-2	H1H130-2	4.1	4.27	2.50	5.3	1H2.520	1H2.520
H1S100-2	H1H100-2	4.1	3.28	2.50	5.3	1H2.520	1H2.520
H1S850-3	H1H850-3	4.3	2.79	2.50	5.3	1H2.520	1H2.520
H1S700-3	H1H700-3	4.1	2.30	2.50	5.3	1H2.520	1H2.520
H1S500-3	H1H500-3	4.6	1.64	2.50	5.3	1H2.520	1H2.520
H1S280-3	H1H280-3	4.6	0.92	2.50	5.3	1H2.520	1H2.520
H1S200-3	H1H200-3	4.6	0.656	6.0	6.4	1H620	1H620
H1S150-3	H1H150-3	4.6	0.492	6.0	6.4	1H620	1H620
H1S118-3	H1H118-3	4.6	0.387	6.0	6.4	1H620	1H620
H1S732-4	H1H732-4	4.7	0.240	10	7.3	1H1020	1H1020
H1S581-4	H1H581-4	4.7	0.191	10	7.3	1H1020	1H1020
H1S467-4	H1H467-4	4.6	0.153	10	7.3	1H1020	1H1020
H1S366-4	H1H366-4	4.7	0.120	10	7.3	1H1020	1H1020
H1S290-4	H1H290-4	4.7	0.0951	16	8.3	1H1620	1H1620
H1S231-4	H1H231-4	4.7	0.0758	16	8.3	1H1620	1H1620
H1S183-4	H1H183-4	4.7	0.0600	16	8.3	1H1620	1H1620
H1S145-4	H1H145-4	4.7	0.0476	25	9.6	1H2520	1H2520
H1S113-4	H1H113-4	4.7	0.0371	25	9.6	1H2520	1H2520
H1S651-5	H1H651-5	4.7	0.0214	25	9.6	1H2520	1H2520
H1S409-5	H1H409-5	4.9	0.0134	25	9.6	1H2520	1H2520
H1S258-5	H1H258-5	5.5	0.00846	35	10.70	1H3520	1H3520
H1S162-5	H1H162-5	6.9	0.00531			1H420	1H420
H1S102-5	H1H102-5	7.3	0.00335			1H620	1H620
H1S640-6	H1H640-6	8.1	0.00210			1H1020	1H1020

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

## HEATING CABLE REFERENCE

### Twin Core Heating Cable with Stainless Steel and alloy 825 sheath North American 600V Range

CSA Certified

Cable Reference		Cable diameter over metal sheath	Conductor loop resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
AISI 321 Sheath	Alloy 825 Sheath	mm	Ohm/m	sq. mm	mm	T1 or T2 &	RGM &
H2S110-1	H2H110-1	5.50	36.10	2.50	8.7	2H2.520	2H2.520
H2S900-2	H2H900-2	5.50	29.50	2.50	8.7	2H2.520	2H2.520
H2S600-2	H2H600-2	5.50	19.70	2.50	8.7	2H2.520	2H2.520
H2S446-2	H2H446-2	5.40	14.63	2.50	8.7	2H2.520	2H2.520
H2S414-2	H2H414-2	5.40	13.60	2.50	8.7	2H2.520	2H2.520
H2S200-2	H2H200-2	6.20	6.560	2.50	8.7	2H2.520	2H2.520
H2S150-2	H2H150-2	6.20	4.920	2.50	8.7	2H2.520	2H2.520
H2S115-2	H2H115-2	5.40	3.770	2.50	8.7	2H2.520	2H2.520
H2S100-2	H2H100-2	5.90	3.280	2.50	8.7	2H2.520	2H2.520
H2S700-3	H2H700-3	6.70	2.300	2.50	8.7	2H2.520	2H2.520
H2S505-3	H2H505-3	5.20	1.660	2.50	8.7	2H2.520	2H2.520
H2S300-3	H2H300-3	5.50	0.984	2.50	8.7	2H2.520	2H2.520
H2S286-3	H2H286-3	5.50	0.938	2.50	8.7	2H2.520	2H2.520
H2S200-3	H2H200-3	6.20	0.656	2.50	8.7	2H2.520	2H2.520
H2S150-3	H2H150-3	6.20	0.492	2.50	8.7	2H2.520	2H2.520
H2S100-3	H2H100-3	6.70	0.328	2.50	8.7	2H2.520	2H2.520
H2S775-4	H2H775-4	5.90	0.254	2.50	8.7	2H2.520	2H2.520
H2S561-4	H2H561-4	6.20	0.184	2.50	8.7	2H2.520	2H2.520
H2S402-4	H2H402-4	6.60	0.132	2.50	8.7	2H2.520	2H2.520
H2S281-4	H2H281-4	7.00	0.0922	2.50	8.7	2H2.520	2H2.520
H2S200-4	H2H200-4	7.20	0.0656	2.50	8.7	2H2.520	2H2.520
H2S130-4	H2H130-4	7.70	0.0427	2.50	8.7	2H2.520	2H2.520
H2S818-5	H2H818-5	7.90	0.0268	2.50	8.7	2H2.520	2H2.520

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

## HEATING CABLE REFERENCE

### Twin Core Heating Cable with Stainless Steel and alloy 825 sheath North American 300V Range

ATEX and CSA Certified

Cable Reference		Cable diameter over metal sheath	Conductor loop resistance at 20 °C (nominal)*	Lead-in cable conductor area	Lead-in cable diameter	Seal reference	Gland reference
AISI 321 Sheath	Alloy 825 Sheath	mm	Ohm/m	sq. mm	mm	T1 or T2 or T3 &	RGM &
L2S110-1	L2H110-1	3.3	36.10	2.50	8.7	2H2.520	2H2.520
L2S900-2	L2H900-2	3.5	29.50	2.50	8.7	2H2.520	2H2.520
L2S750-2	L2H750-2	3.5	24.60	2.50	8.7	2H2.520	2H2.520
L2S500-2	L2H500-2	3.5	16.40	2.50	8.7	2H2.520	2H2.520
L2S400-2	L2H400-2	3.7	13.10	2.50	8.7	2H2.520	2H2.520
L2S320-2	L2H320-2	3.7	10.05	2.50	8.7	2H2.520	2H2.520
L2S275-2	L2H275-2	3.7	9.02	2.50	8.7	2H2.520	2H2.520
L2S250-2	L2H250-2	3.7	8.20	2.50	8.7	2H2.520	2H2.520
L2S200-2	L2H200-2	4.6	6.56	2.50	8.7	2H2.520	2H2.520
L2S170-2	L2H170-2	4.1	5.58	2.50	8.7	2H2.520	2H2.520
L2S140-2	L2H140-2	4.3	4.59	2.50	8.7	2H2.520	2H2.520
L2S114-2	L2H114-2	4.3	3.74	2.50	8.7	2H2.520	2H2.520
L2S100-2	L2H100-2	4.3	3.28	2.50	8.7	2H2.520	2H2.520
L2S775-3	L2H775-3	4.1	2.54	2.50	8.7	2H2.520	2H2.520
L2S700-3	L2H700-3	4.1	2.30	2.50	8.7	2H2.520	2H2.520
L2S500-3	L2H500-3	4.1	1.64	2.50	8.7	2H2.520	2H2.520
L2S472-3	L2H472-3	4.3	1.55	2.50	8.7	2H2.520	2H2.520
L2S374-3	L2H374-3	4.3	1.230	2.50	8.7	2H2.520	2H2.520
L2S293-3	L2H293-3	4.3	0.961	2.50	8.7	2H2.520	2H2.520
L2S200-3	L2H200-3	3.7	0.656	2.50	8.7	2H2.520	2H2.520
L2S150-3	L2H150-3	4.1	0.492	2.50	8.7	2H2.520	2H2.520
L2S100-3	L2H100-3	4.6	0.328	2.50	8.7	2H2.520	2H2.520
L2S734-4	L2H734-4	4.3	0.241	2.50	8.7	2H2.520	2H2.520
L2S583-4	L2H583-4	4.3	0.191	2.50	8.7	2H2.520	2H2.520
L2S458-4	L2H458-4	4.3	0.150	2.50	8.7	2H2.520	2H2.520
L2S324-4	L2H324-4	4.3	0.106	2.50	8.7	2H2.520	2H2.520

\*Conductor resistance is subject to ± 10% tolerance on shown nominal.



# MINERAL INSULATED HEATING CABLE



## COLD LEAD-IN/WIRING REFERENCE

Category "W" — Wiring/Cold Lean-in Cable

Sheath Material  
 122 — Copper  
 321 — AISI321 Stainless Steel  
 316L — AISI316L Stainless Steel  
 400 — Cupronickel 70/30  
 600 — Inconel 600  
 825 — Alloy 825

Number of conductors  
 1 — One conductor (omitted by default)  
 2 — Two conductors

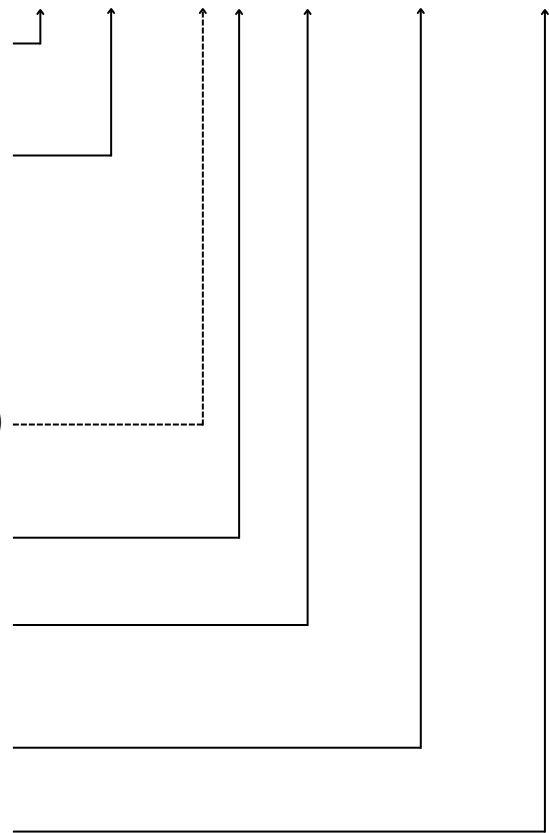
Conductor "C" — Copper material reference

Conductor cross single section area  
 Cross section area of a conductor

Voltage Rating  
 Voltage Rating, 750 V

Suffix  
 "-HDPE" — for HDPE served cables with copper sheath

W	600	-	2	C	2.5	-	750 V	
W	122	-		C	10	-	750 V	- HDPE



## COLD LEAD-IN/WIRING REFERENCE

### Cold lead-in/Wiring Cable Standard European 750 V Range

Cable Reference					Cable diameter over metal sheath	HDPE served cable diameter	Conductor cross area	Conductor resistance at 20 °C (nominal)*
AISI 321 Sheath	Cupronickel Sheath	Inconel 600 Sheath	Alloy 825 Sheath	Copper Sheath	mm	mm	sq. mm	Ohm/m
W321-C2.5	W400-C2.5	W600-C2.5	W825-C2.5	W122-C2.5	5.30	6.80	2.50	0.00690
W321-C6	W400-C6	W600-C6	W825-C6	W122-C6	6.40	8.30	6.00	0.00287
W321-C10	W400-C10	W600-C10	W825-C10	W122-C10	7.30	9.00	10.00	0.00183
W321-C16	W400-C16	W600-C16	W825-C16	W122-C16	8.30	10.00	16.00	0.00108
W321-2C2.5	W400-2C2.5	W600-2C2.5	W825-2C2.5	W122-2C2.5	8.70	9.80	2.50	0.00690
W321-2C6	W400-2C6	W600-2C6	W825-2C6	W122-2C6	10.90	12.60	6.00	0.00287

\*Conductor resistance is subject to  $\pm 10\%$  tolerance on shown nominal.

### Cold lead-in/Wiring Cable Twin Core North American Range

	Cable Reference	Cable diameter over metal sheath	Conductor cross area	Conductor resistance at 20 °C (nominal)*	Voltage rating
AISI 321 Sheath	Alloy 825 Sheath	mm	sq. mm	Ohm/m	V
W321-2C14AWG-300V	W825-2C14AWG-300V	7.10	2.08	0.00845	300
W321-2C14AWG-600V	W825-2C14AWG-600V	7.80	2.08	0.00845	600