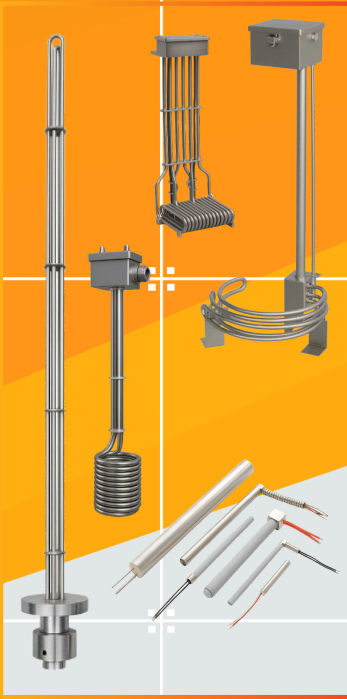


Hitco's

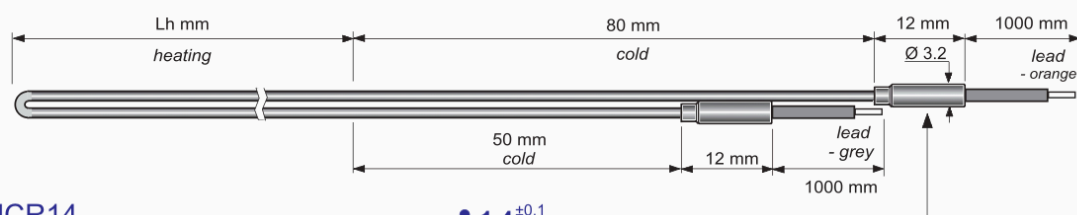
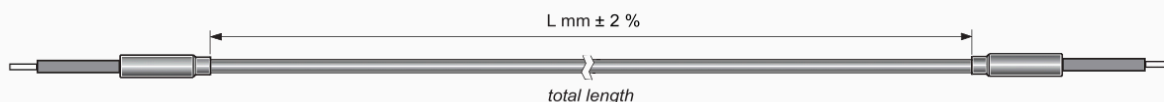
Redefining Thermal Solutions...



The **NEXTGEN** Heating Solutions



- 1 Nickel-chrome 80/20 resistance wire
- 2 High purity compacted magnesium oxide
- 3 Nickel or stainless steel sheath
- 4 PTFE insulated nickel leadwires



RMCR14

When coiled only, cross section might become 1,6x1.

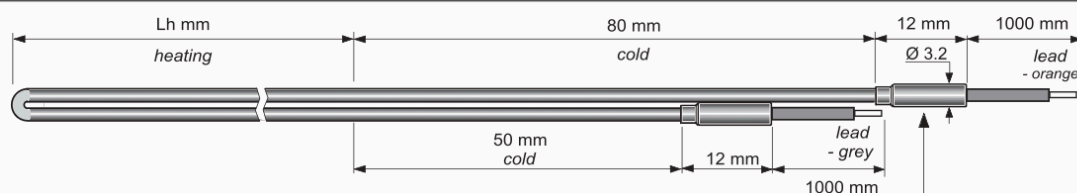
• 1,4^{±0,1} mm

WATERPROOF TRANSITION
MAX WORKING TEMPERATURE : 250 °C

MINIMUM INTERNAL COILING Ø		6	mm
WATTAGE	+5% -10%	RESISTANCE	+10% -5%
DIELECTRIC STRENGHT	800 V	INSULATION(cold 1000Vcc)	> 10 MΩ
LEAKAGE CURRENT(cold)			< 0,5 mA
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH		750	°C
MAX CURRENT:		3	A
MAX SURFACE LOAD ON HEATER SHEAT		10	W/cm²
Standard supply 1000 mm PTFE insulated nickel leadwires			

Standard supply 1000 mm PTFE insulated nickel leadwires

L mm	mm	W 230V	RMCR14
400	135	100	70.014.040.0100
450	160	120	70.014.045.0120
500	185	140	70.014.050.0140
600	235	160	70.014.060.0160
700	285	200	70.014.070.0200
800	335	240	70.014.080.0240
900	385	280	70.014.090.0280
1000	435	320	70.014.100.0320
1200	535	400	70.014.120.0400



RMCR18

cross section 1,8mm±0,1

When coiled only, cross section might become 2,3x1,3.

WATERPROOF TRANSITION
MAX WORKING TEMPERATURE : 250 °C

MINIMUM INTERNAL COILING Ø			6	mm
WATTAGE	+5% -10%	RESISTANCE	+10% -5%	
DIELECTRIC STRENGHT	800 V	INSULATION(cold 1000Vcc)	> 10 MΩ	
LEAKAGE CURRENT(cold)			< 0,5	mA
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH			750	°C
MAX CURRENT:			4	A
MAX SURFACE LOAD ON HEATER SHEAT			10	W/cm²
Standard supply 1000 mm PTFE insulated nickel leadwires				

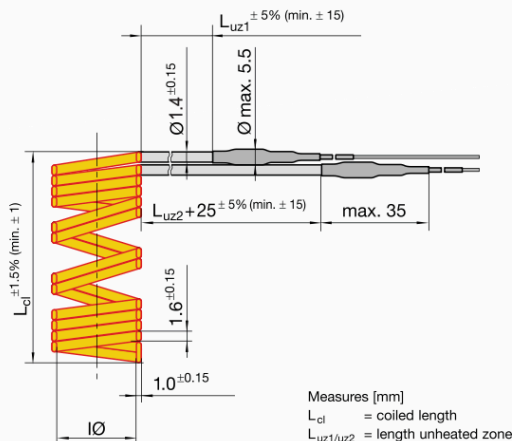
Standard supply 1000 mm PTFE insulated nickel leadwires

L mm	mm	W 230V	RMCR18
400	135	125	70.018.040.0125
450	160	150	70.018.045.0150
500	185	175	70.018.050.0175
600	235	200	70.018.060.0200
700	285	250	70.018.070.0250
800	335	300	70.018.080.0300
900	385	350	70.018.090.0350
1000	435	400	70.018.100.0400
1200	535	500	70.018.120.0500
1500	685	600	70.018.150.0600

Coiled RMCR-14 1.6 x 1.0



also as hotspring®/Micro Ø 1.3
(on request)



Approximate formula for RMCR-14

for calculation the stretched heated length of coiled heaters [mm]

$$(\text{ID} + 1.4) \cdot \pi \cdot \text{number of windings} \cdot 2 = \text{heated length}_{\text{straight}}$$

Technical Data

- Hitco Micro Coil Heater with flat cross-section 1.6mm x 1.0mm (deliverable only in coiled condition)
- Sheat material : Stainless Steel or Nickel
- Insulation Sheath : High – compressed MgO
- Heating conductor compound : NiCr 8020
- Sheath temperature of heating element: max. 750°C
- Voltage: max. 250 V, Standard : 230 V
- Power tolerance (cold) : $\pm 10\%$ (<on request)
- High voltage Strength (cold): 800 V-AC
- Insulation resistance (cold): $\geq 5 \text{ M}\Omega$ bei 500 V-DC
- Leakage current (cold): $\leq 0.5 \text{ mA}$ bei 253 V-AC
- Exit axial, radial, tangential or in the mid,
- Max. total length straight : 3000mm
- Min. length of unheated zone Luz: 25 mm plus connection head
- Length tolerance straight: $\pm 5\%$
- Inner diameter tolerance without reflection tube :
Up to ID 12 mm -0.05/-0.20
Up to ID 30 mm -0.10/-0.30
- With reflection tube:
+0.05/+0.15
- Sheath surface load according to operating temperature and heat dissipation max.
- Minimum bending radius (internal): 3mm (heated and unheated zone)
- Individual connection heads, max. Length : 35mm
- Connection version: 1000 mm PTFE insulated Cu-nickel plated leads, multistranded (Standard)
- Deliverable with external thermocouple (e.g. coiled)

Other dimensions and product varieties on request.

We reserve the right to change technical details.

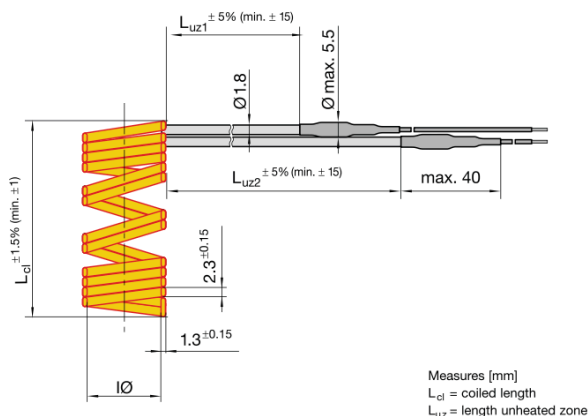
Please note the installation and storage instructions. Available on our website.

Order Details

Hitco RMCR-14 (1.6 x 1.0)

- Application:
- + Inner Φ :
- + Coiled length:
- + Position of coils:
- + Wattage:
- + Voltage:
- + Exit:
- + Connection Length:
- + Thermocouple:
- + Reflection tube:
- + Length of unheated zone:
- + Quantity:

Coiled RMCR-18 2.3 x 1.3



Approximate formula for RMCR-18

for calculation the stretched heated length of coiled heaters [mm]

$$(\varnothing + 1.8) \cdot \pi \cdot \text{number of windings} \cdot 2 = \text{heated length}_{\text{straight}}$$

Technical Data

- | Hitco Micro Coil Heater with flat cross-section 2.3mm x 1.3mm (deliverable only in coiled condition)
- | Sheat material : Stainless Steel or Nickel
- | Insulation Sheath : High – compressed MgO
- | Heating conductor compound : NiCr 8020
- | Sheath temperature of heating element: max. 750°C
- | Voltage: max. 250 V, Standard : 230 V
- | Power tolerance (cold) : $\pm 10\%$ (<on Anfrage)
- | High voltage Strength (cold): 800 V-AC
- | Insulation resistance (cold): $\geq 5 \text{ M}\Omega$ bei 500 V-DC
- | Leakage current (cold): $\leq 0.5 \text{ mA}$ bei 253 V-AC
- | Exit axial, radial, tangential or in the mid,
- | Max. total length straight : 3000mm
- | Min. length of unheated zone L_{uz} : 25 mm plus connection head
- | Length tolerance straight: $\pm 5\%$
- | Inner diameter tolerance without reflection tube :
 Up to $\varnothing 12 \text{ mm}$ -0.05/-0.20
 Up to $\varnothing 30 \text{ mm}$ -0.10/-0.30
 With reflection tube:
 +0.05/+0.15
- | Sheath surface load according to operating temperature and heat dissipation max.
- | Minimum bending radius (internal): 3mm (heated and unheated zone)
- | Individual connection heads of common connection head.
- | Deliverable with external thermocouple (e.g. coiled-in)
- | Deliverable with reflection tube.
- | Deliverable with clamping element or collar

Other dimensions and product varieties on request.

We reserve the right to change technical details.

Please note the installation and storage instructions. Available on our website.

Order Details

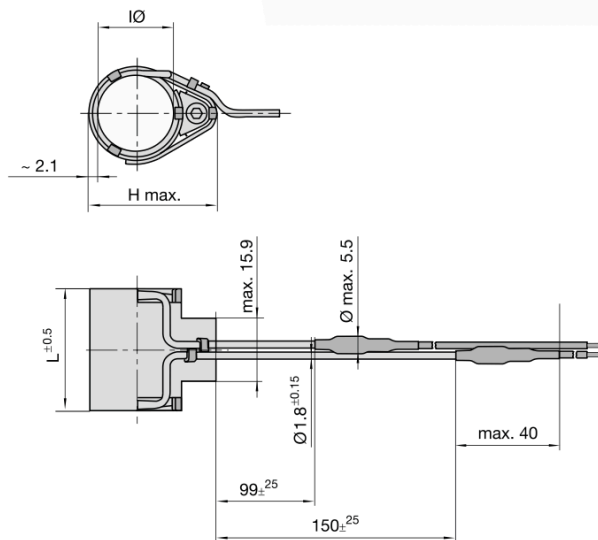
Hitco RMCR-18 (2.3 x 1.3)

- Application:
- + Inner $\varnothing$:
- + Coiled length:
- + Position of coils:
- + Wattage:
- + Voltage:
- + Exit:
- + Connection Length:
- + Thermocouple:
- + Reflection tube:
- + Length of unheated zone:
- + Clamping element.....
- + Collar :
- + Quantity:

Coiled RMCR-18 2.3 x 1.3

with clamping band and
axial screwing

Dedicated towards
Pet Hot Runner Moulds.



Measures [mm]

Technical Data

- | Hitco Micro Heater with flat cross-section
1.3mm x 2.3mm with clamping band
and axial screwing.
- | Sheat material : Stainless Steel or Nickel
- | Insulation Sheath : High – compressed MgO
- | Heating conductor compound : NiCr 8020
- | Sheath temperature of
heating element: max. 750°C
- | Voltage: max. 250 V, Standard : 230 resp. 240 V
- | Power tolerance (cold) : $\pm 10\%$ (<on request)
- | High voltage Strength (cold): 800 V-AC
- | Insulation resistance (cold): $\geq 5 \text{ M}\Omega$ bei 500 V-DC
- | Leakage current (cold): $\leq 0.5 \text{ mA}$ bei 253 V-AC
- | Inner diameter tolerance clampable or indicated nozzle
diameter.
- | Minimum bending radius (internal): 3 mm
- | Separated connected heads.
- | Connection versions. Standard Length 1830 mm
- | Variant : 1 L=30.5mm/ $1\Phi = 19.05\text{mm}$
Length of unheated Zone
99/150mm
H Max. = 32.3mm
wattage:149W or 268W (Standard at 240V)
- | Variant : 2 L=30.5mm/ $1\Phi = 22.2\text{mm}$
Length of unheated Zone
99/150mm
H Max. = 36.4mm/ $1\Phi = 22.2\text{mm}$
wattage:250W or 230V (Standard)

Stock dimensions can be found in the stock
range brochure.

We reserve the right to change technical details.

Please note the installation and storage instructions.
Available on our website.

Order Details

Hitco/Micro/RMF-18-Pet/ 1.3 x 2.3

Application:

+ for nozzle-/clamping band- Φ

☐ Variant 1

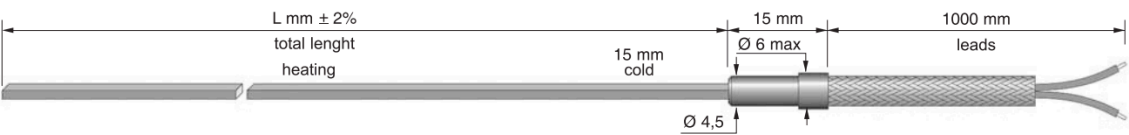
☐ Variant 1

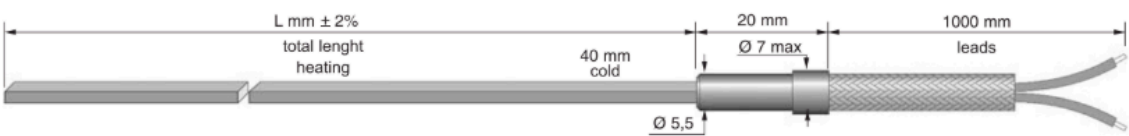
+ Wattage:

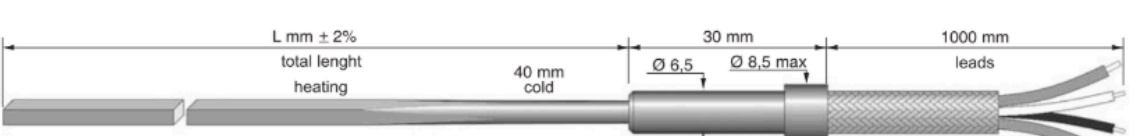
+ Voltage:

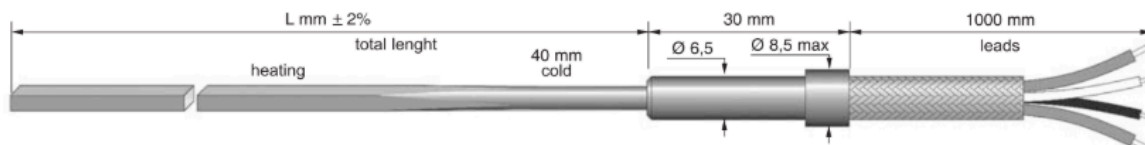
+ Length of unheated zone:

+ Quantity:

			
RM14	cross section	2,4 x 1,4 ^{±0,1} mm	
MINIMUM INTERNAL COILING Ø	6	mm	
WATTAGE	+5% -10%	RESISTANCE	+10% -5%
DIELECTRIC STRENGTH	800 V	INSULATION (cold 1000Vcc)	> 10 MΩ
LEAKAGE CURRENT (cold)	< 0,1	mA	
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH	750	°C	
Standard supply 1000 mm PTFE insulated nickel leadwires			
L mm	W 230V	RM14	
100	80	50.014.010.0080	
150	100	50.014.015.0100	
200	125	50.014.020.0125	
250	150	50.014.025.0150	
300	175	50.014.030.0175	
350	200	50.014.035.0200	
400	225	50.014.040.0225	
450	250	50.014.045.0250	
500	275	50.014.050.0275	

			
RM18	cross section	3,2 x 1,8 ^{±0,1} mm	
MINIMUM INTERNAL COILING Ø	8	mm	
WATTAGE	+5% -10%	RESISTANCE	+10% -5%
DIELECTRIC STRENGTH	1000 V	INSULATION (cold 1000Vcc)	> 10 MΩ
LEAKAGE CURRENT (cold)	< 0,1	mA	
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH	750	°C	
Standard supply 1000 mm PTFE insulated nickel leadwires			
L mm	W 230V	RM18	
200	150	50.018.020.0150	
250	175	50.018.025.0175	
300	200	50.018.030.0200	
350	225	50.018.035.0225	
400	250	50.018.040.0250	
450	290	50.018.045.0290	
500	330	50.018.050.0330	
600	400	50.018.060.0400	
700	470	50.018.070.0470	
800	550	50.018.080.0550	
900	620	50.018.090.0620	
1000	700	50.018.100.0700	

			
RM22	cross section	4,3 x 2,2 ^{±0,1} mm	
RM22 TC	with thermocouple built-in (type J)		
MINIMUM INTERNAL COILING Ø	12	mm	
WATTAGE	+5% -10%	RESISTANCE	+10% -5%
DIELECTRIC STRENGTH	1250	V	
INSULATION (cold 1000Vcc)	> 10	MΩ	
LEAKAGE CURRENT (cold)	< 0,1	mA	
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH	750	°C	
Standard supply 1000 mm PTFE insulated nickel leadwires			
L mm	W 230V	RM22	RM22 TC
250	200	50.022.025.0200	52.022.025.0200
300	225	50.022.030.0225	52.022.030.0225
350	250	50.022.035.0250	52.022.035.0250
400	290	50.022.040.0290	52.022.040.0290
450	330	50.022.045.0330	52.022.045.0330
500	400	50.022.050.0400	52.022.050.0400
600	470	50.022.060.0470	52.022.060.0470
700	550	50.022.070.0550	52.022.070.0550
800	620	50.022.080.0620	52.022.080.0620
900	700	50.022.090.0700	52.022.090.0700
1000	850	50.022.100.0850	52.022.100.0850
1200	950	50.022.120.0950	52.022.120.0950
1400	1100	50.022.140.1100	52.022.140.1100
1600	1200	50.022.160.1200	52.022.160.1200



RM25

cross section

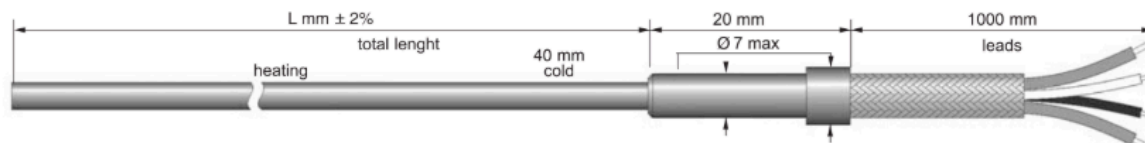
■ $4,0 \times 2,5^{\pm 0,1}$ mm

RM25 TC

with thermocouple built-in (type J)

MINIMUM INTERNAL COILING Ø	12	mm
WATTAGE	+5% -10%	
RESISTANCE	+10% -5%	
DIELECTRIC STRENGHT	1250	V
INSULATION (cold 1000Vcc)	> 10	MΩ
LEAKAGE CURRENT (cold)	< 0,1	mA
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH	750	°C
Standard supply 1000 mm PTFE insulated nickel leadwires		

L mm	W 230V	RM25	RM25 TC
250	200	50.025.025.0200	52.025.025.0200
300	225	50.025.030.0225	52.025.030.0225
350	250	50.025.035.0250	52.025.035.0250
400	290	50.025.040.0290	52.025.040.0290
450	330	50.025.045.0330	52.025.045.0330
500	400	50.025.050.0400	52.025.050.0400
600	470	50.025.060.0470	52.025.060.0470
700	550	50.025.070.0550	52.025.070.0550
800	620	50.025.080.0620	52.025.080.0620
900	700	50.025.090.0700	52.025.090.0700
1000	850	50.025.100.0850	52.025.100.0850
1200	950	50.025.120.0950	52.025.120.0950
1400	1100	50.025.140.1100	52.025.140.1100
1600	1200	50.025.160.1200	52.025.160.1200



RM30

cross section

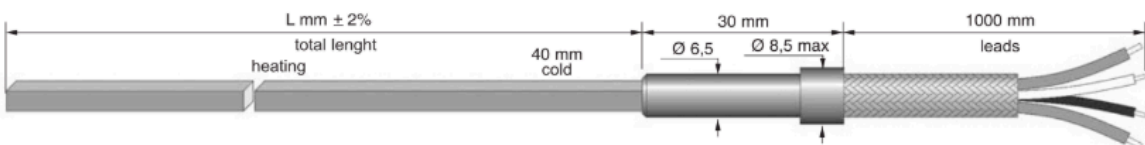
● $\varnothing 3,0^{\pm 0,1}$ mm

RM30 TC

with thermocouple built-in (type J)

MINIMUM INTERNAL COILING Ø	8	mm
WATTAGE	+5% -10%	
RESISTANCE	+10% -5%	
DIELECTRIC STRENGHT	1000	V
INSULATION (cold 1000Vcc)	> 10	MΩ
LEAKAGE CURRENT (cold)	< 0,5	mA
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH	750	°C
Standard supply 1000 mm PTFE insulated nickel leadwires		

L mm	W 230V	RM30	RM30 TC
200	150	50.030.020.0150	52.030.020.0150
250	175	50.030.025.0175	52.030.025.0175
300	200	50.030.030.0200	52.030.030.0200
350	225	50.030.035.0225	52.030.035.0225
400	250	50.030.040.0250	52.030.040.0250
450	290	50.030.045.0290	52.030.045.0290
500	330	50.030.050.0330	52.030.050.0330
600	400	50.030.060.0400	52.030.060.0400
700	470	50.030.070.0470	52.030.070.0470
800	550	50.030.080.0550	52.030.080.0550
900	620	50.030.090.0620	52.030.090.0620
1000	700	50.030.100.0700	52.030.100.0700



RM32

cross section

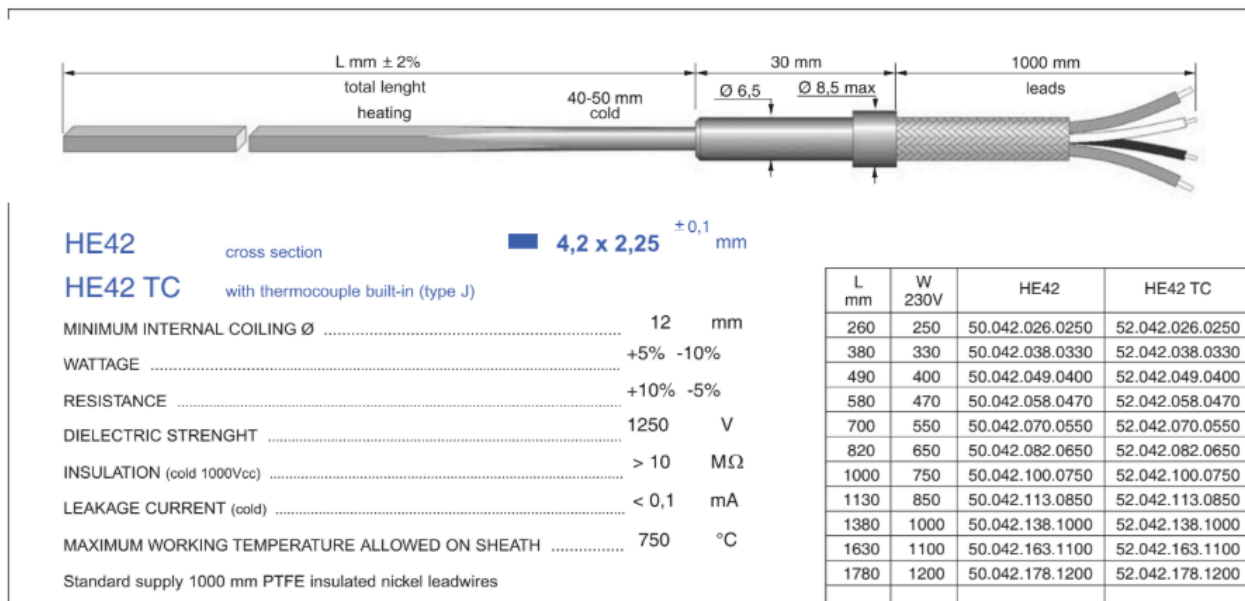
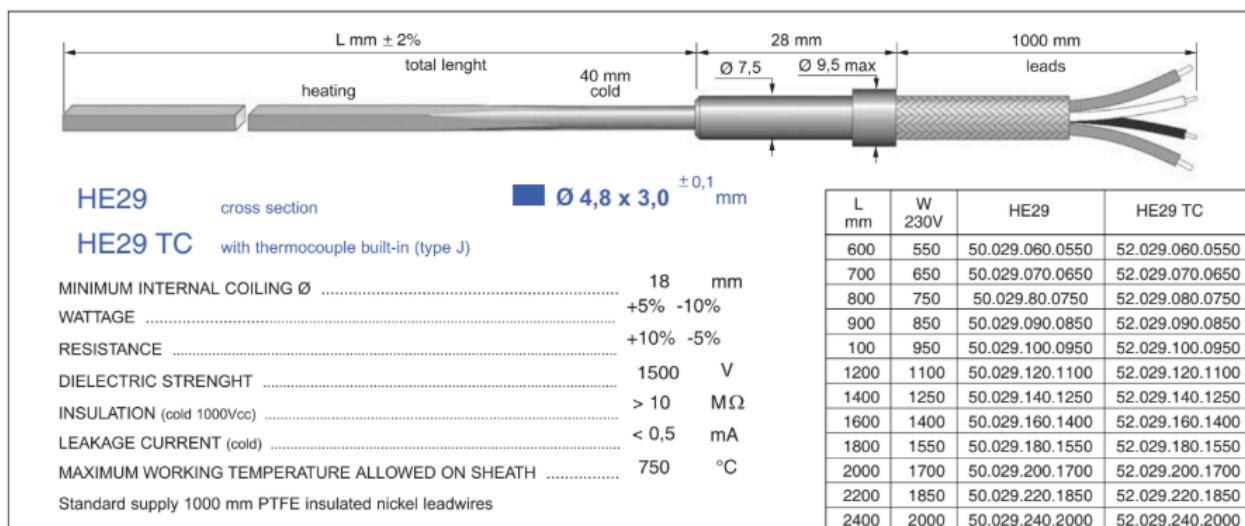
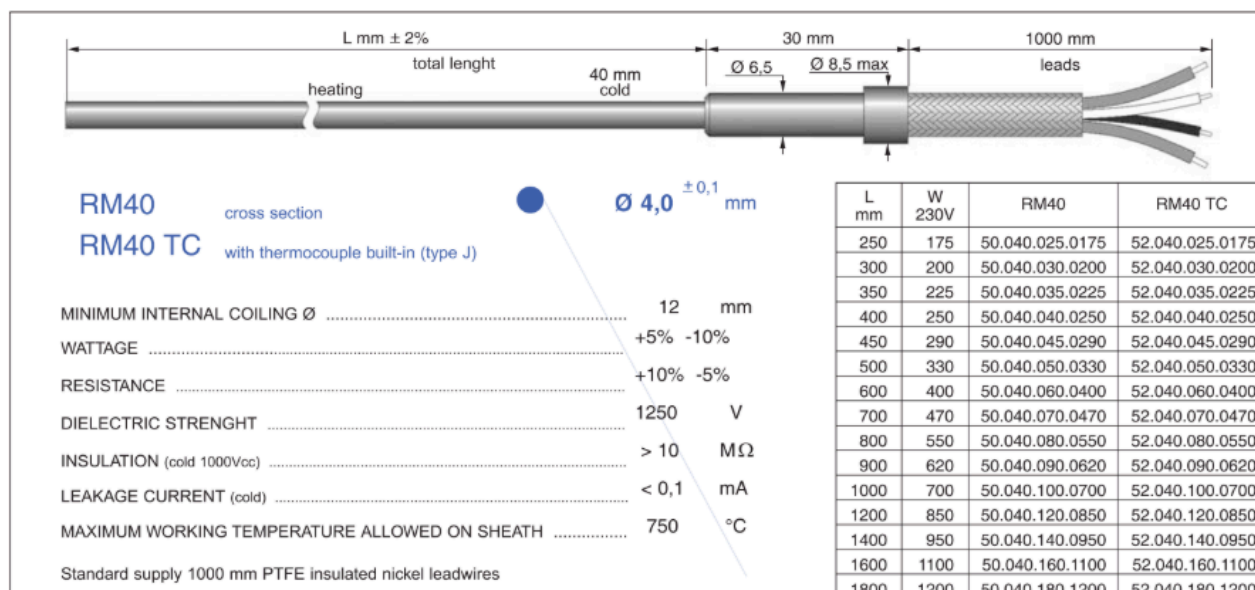
■ $3,2 \times 3,2^{\pm 0,1}$ mm

RM32 TC

with thermocouple built-in (type J)

MINIMUM INTERNAL COILING Ø	12	mm
WATTAGE	+5% -10%	
RESISTANCE	+10% -5%	
DIELECTRIC STRENGHT	1250	V
INSULATION (cold 1000Vcc)	> 10	MΩ
LEAKAGE CURRENT (cold)	< 0,1	mA
MAXIMUM WORKING TEMPERATURE ALLOWED ON SHEATH	750	°C
Standard supply 1000 mm PTFE insulated nickel leadwires		

L mm	W 230V	RM32	RM32 TC
250	175	50.032.025.0175	52.032.025.0175
300	200	50.032.030.0200	52.032.030.0200
350	225	50.032.035.0225	52.032.035.0225
400	250	50.032.040.0250	52.032.040.0250
450	290	50.032.045.0290	52.032.045.0290
500	330	50.032.050.0330	52.032.050.0330
600	400	50.032.060.0400	52.032.060.0400
700	470	50.032.070.0470	52.032.070.0470
800	550	50.032.080.0550	52.032.080.0550
900	620	50.032.090.0620	52.032.090.0620
1000	700	50.032.100.0700	52.032.100.0700
1200	850	50.032.120.0850	52.032.120.0850
1400	950	50.032.140.0950	52.032.140.0950
1600	1100	50.032.160.1100	52.032.160.1100
1800	1200	50.032.180.1200	52.032.180.1200



TO ORDER SPECIFY :

- 1) Code number
- 2) Internal diameter (D)
- 3) Spiral length (L)
- 4) Leads protection
- 5) Lead exit type
- 6) Lead exit direction

LEADS PROTECTION

Type F

Fiberglass-silicone hose



Type M

Braided steel hose

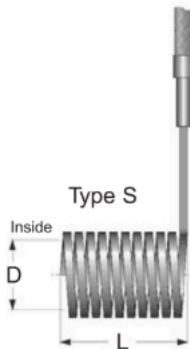


EXIT

Tangential



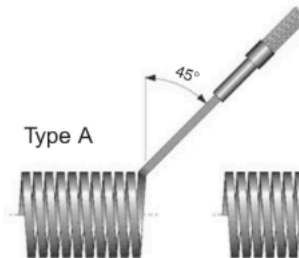
Radial



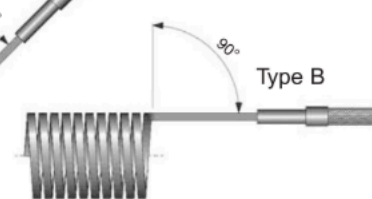
Type S

EXIT DIRECTION

Type A



Type B



Coil Heater with Inox tube

- Increase of max. surface load.
- Protection from mechanical from
- Measures and tolerances according to heater type considering the technical data.



Coil Heater with Clamping band

- High-grade clamping possibility for improving the heat
- Increase of max. surface load
- Protection from mechanical load



Coil Heater with Fixing Screw

- Space-saving fixing possibility for WRP/Square or Flat maxi by the fixing the last coil with a screw.

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