Zoppas Industries
Heating Element Technologies

MICROTUBULAR HEATERS

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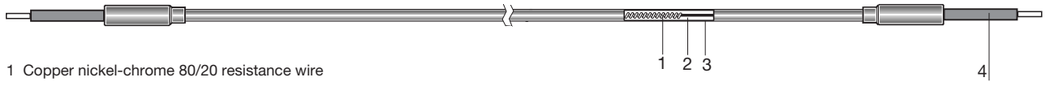
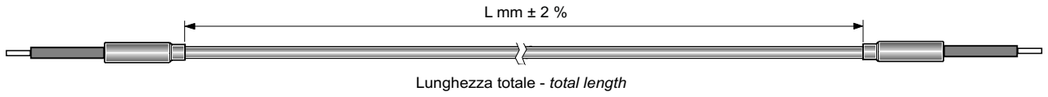
We design and manufacture microtubular resistors for various applications requiring small footprints.

They are manufactured to ensure high performance in durability, power density, working temperature and electrical insulation.

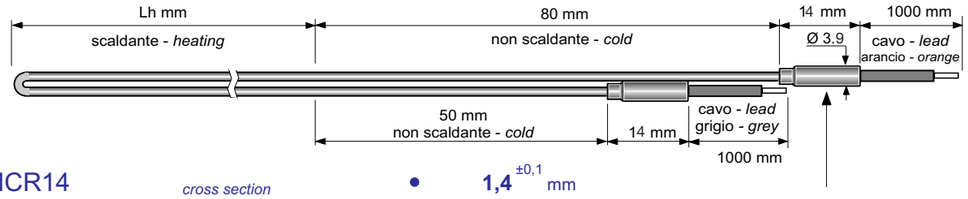
Our solutions offer flexibility, performance, and high temperature resistance.



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



Lunghezza totale - *total length*



RMCR14 *cross section* **1,4** ±0,1 mm

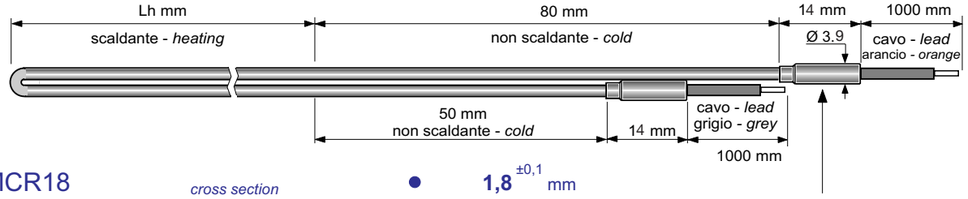
When coiled only, cross section migh become 1,6x1.

WATERPROOF TRANSITION
MAX WORKING TEMPERATURE : .... 250 °C

MINIMUM INTERNAL COILING Ø	6	mm		
WATTAGE	+5% -10%		*RESISTANCE*	+10% -5%
DIELECTRIC STRENGHT	600 V		*INSULATION (cold 5000Vcc)*	> 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 copper nickel leadwires

L mm	Lh 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* **1,8** ±0,1 mm

When coiled only, cross section migh 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	600 V		*INSULATION (cold 500Vcc)*	> 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 copper nickel leadwires

L mm	Lh 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	

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