



## Flexible Thermocouple Wire(1024°C)



### *Product application:*

These cables are designed for a range of applications which include: replacement for beaded thermocouples, thermocouple for oven surveys, heat treating or forging, casting of steel or titanium, thermocouple for coke ovens, soaking pits where more flexibility is required compared to mineral insulated products. Designed for extreme temperature applications.

### *Product characteristic:*

#### **Construction:**

- Solid or stranded thermocouple wire
- Fused TFE tape insulation
- Parallel conductors
- Flame retardant extruded fluoropolymer TFE jacket

#### **Technical:**

- Continuous temperature rating: 260°C
- Minimum Bend Radius: insulation 3 x cable Ø  
overall 5 x cable Ø
- Limits of Error: Conforms to ASTM E230, IEC 584, and ANSI MC 96.1
- Color Code: Conforms to ANSI, IEC, JIS

#### **Properties:**

- Designed for extended high temperature service of (1024°C) with intermittent use of (1432°C)
- Good flexibility.
- Replaces beaded thermocouples.
- Excellent thermocouple probe in various high temperature applications.



### Product specification:

Flexible Type K Thermocouple Wire  
Chromel/Alumel Flexible Thermocouple Wire Type K

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48

Flexible Type K Thermocouple Wire Extension Grade  
Chromel/Alumel Flexible Thermocouple Wire Type K

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48

Flexible Type J Thermocouple Wire  
Iron/Constantan Flexible Thermocouple Wire Type J

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48



## High Temperature Thermocouple Cables

[www.caledonian-cables.co.uk](http://www.caledonian-cables.co.uk)

Flexible Type J Thermocouple Wire Extension Grade  
Iron/Constantan Flexible Thermocouple Wire Type J

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48

Flexible Type T Thermocouple Wire  
Copper/Constantan Flexible Thermocouple Wire Type T

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48

Flexible Type T Thermocouple Wire Extension Grade  
Copper/Constantan Flexible Thermocouple Wire Type T

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48



### Flexible Type E Thermocouple Wire

Chromel/Constantan Flexible Thermocouple Wire Type E

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48

### Flexible Type E Thermocouple Wire Extension Grade

Chromel/Constantan Flexible Thermocouple Wire Type E

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48

### Flexible Type N Thermocouple Wire

Nicrosil/Nisil Flexible Thermocouple Wire Type N

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
20	20.574	0.381	0.381	2.34/3.92	15
16	32.766	0.381	0.381	2.82/4.88	30
14	41.402	0.381	0.381	3.15/5.54	48



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Flexible Type N Thermocouple Wire Extension Grade  
 Nicrosil/Nisil Flexible Thermocouple Wire Type N

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
24	12.954	0.381	0.381	2.03/3.3	9
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