



## PFA Insulated Thermocouple Wire and Extension Wire



### **Product application:**

PFA Thermocouple Wire may be used for general use extension wire.

### **Product characteristic:**

#### **Construction:**

- Solid or stranded thermocouple wire
- Flame retardant extruded fluoropolymer PFA insulation
- Parallel conductors
- Flame retardant extruded fluoropolymer PFA jacket
- Tinned Copper

#### **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:**

- Excellent abrasion, oil, chemical and moisture resistance.
- Service temperature of 260°C
- Low friction factor when pulled.



### Product specification:

PFA-Insulated Type J Thermocouple Wire  
Iron/Constantan PFA Thermocouple Wire 260°C

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
22	0.64	0.2	0.15	1.5 x 2.6	11
24	0.51	0.2	0.15	1.4 x 2.3	8.5
24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5

PFA-Insulated Type J Thermocouple Wire - Extension Grade  
Iron/Constantan PFA Thermocouple Wire 260°C - Extension Grade

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
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22	0.64	0.2	0.15	1.5 x 2.6	11
24	0.51	0.2	0.15	1.4 x 2.3	8.5
24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5



## High Temperature Thermocouple Cables

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

PFA-Insulated Type K Thermocouple Wire  
Chromel/Alumel PFA Thermocouple Wire 260°C

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
22	0.64	0.2	0.15	1.5 x 2.6	11
24	0.51	0.2	0.15	1.4 x 2.3	8.5
24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5

PFA-Insulated Type K Thermocouple Wire - Extension Grade  
Chromel/Alumel PFA Thermocouple Wire 260°C - Extension Grade

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
22	0.64	0.2	0.15	1.5 x 2.6	11
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24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5



PFA-Insulated Type T Thermocouple Wire  
Copper/Constantan PFA Thermocouple Wire 260°C

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
22	0.64	0.2	0.15	1.5 x 2.6	11
24	0.51	0.2	0.15	1.4 x 2.3	8.5
24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5

PFA-Insulated Type T Thermocouple Wire - Extension Grade  
Copper/Constantan PFA Thermocouple Wire 260°C - Extension Grade

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
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24	0.51	0.2	0.15	1.4 x 2.3	8.5
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28	0.32	0.2	0.15	1.2 x 2.0	5.5
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PFA-Insulated Type E Thermocouple Wire  
Chromel/Constantan PFA Thermocouple Wire 260°C

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
22	0.64	0.2	0.15	1.5 x 2.6	11
24	0.51	0.2	0.15	1.4 x 2.3	8.5
24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5

PFA-Insulated Type E Thermocouple Wire - Extension Grade  
Chromel/Constantan PFA Thermocouple Wire 260°C - Extension Grade

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
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30	0.25	0.2	0.15	1.2 x 1.8	4.5



### PFA-Insulated Type N Thermocouple Wire Nicrosil/Nisil PFA Thermocouple Wire 260°C

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
20	0.81	0.2	0.15	1.7 x 2.9	16
20S*	0.97	0.2	0.15	1.8 x 3.1	18
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24	0.51	0.2	0.15	1.4 x 2.3	8.5
24S*	0.61	0.2	0.15	1.6 x 2.7	9.2
26	0.41	0.2	0.15	1.3 x 2.1	6.5
28	0.32	0.2	0.15	1.2 x 2.0	5.5
30	0.25	0.2	0.15	1.2 x 1.8	4.5

### PFA-Insulated Type N Thermocouple Wire - Extension Grade Nicrosil/Nisil PFA Thermocouple Wire 260°C - Extension Grade

AWG	Nominal Conductor Diameter mm	Nominal Thickness mm			Gross Weight kg/km
		Insulation	Jacket	O.D.	
14	1.63	0.2	0.25	2.6 x 4.8	51
16	1.29	0.2	0.25	2.2 x 3.9	33
16S*	1.47	0.2	0.25	2.4 x 4.3	36
18	1.02	0.2	0.25	1.9 x 3.4	22
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