



Thermocouple Grade Wire Single Pair - PFA Insulated

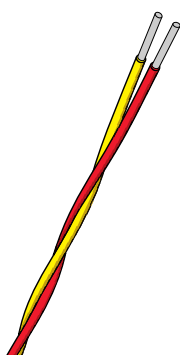


**A range of PFA insulated single pair
Thermocouple Grade Wire available
from stock for immediate delivery**

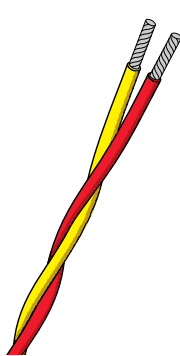
PFA Thermocouple Grade Wire

PFA Insulated Twisted Pair / PFA Insulated Bonded 'Bell Wire' -100°F to +480°F

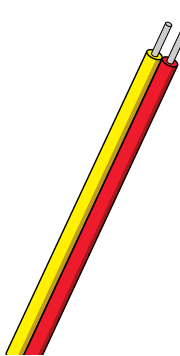
- PFA is ideal for higher temperature applications up to 480°F. It is also excellent for cryogenic temperatures down to -100°F
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA wire are made in extruded form and are therefore gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- Twisted pair construction with either solid or stranded conductors in a range of sizes. Ideal for making simple thermocouples
- Bonded 'bell wire' for autoclave applications



PFA Twisted Pair
One pair of **solid** conductors
PFA insulated. Pair twisted.



PFA Twisted Pair
One pair of **stranded** conductors
PFA insulated. Pair twisted.















PFA Bonded 'Bell Wire'
One pair of **solid** conductors.
Pair laid flat and PFA sheathed. Oval, bonded construction.

Stock Number		B10	B11	B12	B53	B54	B16
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	Solid	7x26	7x32	Solid
	Total Wire Size - AWG (S = Stranded)	32	28	24	26S	24S	24
	Total Area (mm ²)	0.03	0.07	0.2	0.124	0.22	0.2
	Insulation	PFA			PFA		PFA
PAIRS	Number of Pairs	1			1		1
	Conductor Configuration	Twisted			Twisted		Parallel
	Shielded	No			No		No
OVERALL	Insulation	—			—		—
	Insulation Rating (°F)	Continuous			-100 to +480		-100 to +480
		Short Term			+570		+570
	Color Coding	Yes			Yes		Yes
	Physical Properties	Abrasion Resistance			Good		Good
		Moisture Resistance			Very Good		Very Good
		Typical Weight (lbs/1000ft) (excluding reel)			7	7	7
	Diameter under Armor (inches)	—			—		—
	Diameter over Armor (inches)	—			—		—
	Overall Diameter* (inches)	0.08"	0.08"	0.08"	0.059"	0.12"	0.037" x 0.077"
Notes		Rejects electromagnetic interference. Gas, steam and water tight insulation.			Rejects electromagnetic interference. Gas, steam and water tight insulation.		Gas, steam and water tight insulation. Oval wire with bonded construction. Ideal for use in autoclaves.

† These values are nominal and if critical to your application, please request a physical check.

The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

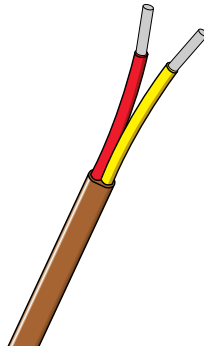
Color Codes available Thermocouple Grade to ANSI MC96.1					Order Code - Example				
									
KK		JJ		TT		NN		EE	
ALSO AVAILABLE as Extension Grade to ANSI MC96.1					Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.				
									
KX		JX		TX		NX		EX	
									
SX		RX							
					Thermocouple wire is normally available from us for immediate delivery from stock to ANSI MC96.1 colour coding.				

IEC colors are available on request

PFA Thermocouple Grade Wire

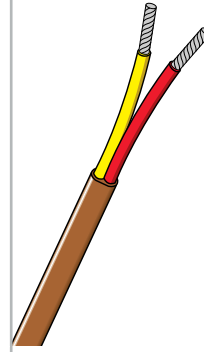
PFA Insulated Flat Twin Wire -100°F to +480°F

- PFA is ideal for higher temperature applications up to 480°F. It is also excellent for cryogenic temperatures down to -100°F
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA wire are made in extruded form and are therefore gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- Flat twin construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose applications
- For PFA Multipair see page 8



PFA Parallel Twin

One pair of **solid** conductors. Cores PFA insulated. Pair laid flat. PFA sheathed overall.



PFA Parallel Twin

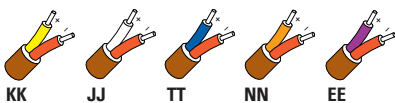
One pair of **stranded** conductors. Cores PFA insulated. Pair laid flat. PFA sheathed overall.

Stock Number		B04	B05	B19	B23	B22	B20	B30	B50	B60
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	Solid	Solid	Solid	Solid	Solid	7x32	13x32
	Total Wire Size - AWG (S = Stranded)	41	34	27	32	28	24	20	24S	21S
	Total Area (mm ²)	0.005	0.018	0.111	0.03	0.07	0.2	0.5	0.22	0.44
	Insulation	PFA							PFA	
PAIRS	Number of Pairs	1							1	
	Conductor Configuration	Parallel							Parallel	
	Shielded	No							No	
OVERALL	Insulation	PFA							PFA	
	Insulation Rating (°F)	Continuous							-100 to +480	
		Short Term							+570	
	Color Coding	Yes							Yes	
	Physical Properties	Abrasion Resistance							Good	
		Moisture Resistance							Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)							Very Good	
	Diameter under Armor (inches)	—							—	
	Diameter over Armor (inches)	—							—	
	Overall Diameter† (inches)	0.02"x 0.03"	0.02"x 0.03"	0.08"x0.03"	0.04"x0.04"	0.08"x0.04"	0.08"x0.12"	0.12"x0.16"	0.08"x0.12"	0.08"x0.12"
Notes		Oval section. Gas, steam and water tight insulation.							Oval section. Gas, steam and water tight insulation.	

† These values are nominal and if critical to your application, please request a physical check.

The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Thermocouple Grade to ANSI MC96.1



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
B50	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

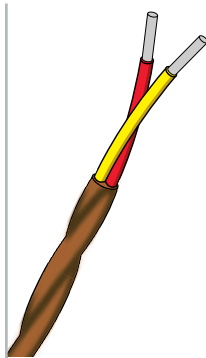
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

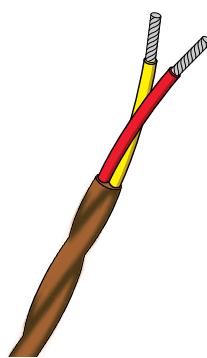
PFA Thermocouple Grade Wire

PFA Insulated Twisted and Sheathed Wire -100°F to +480°F

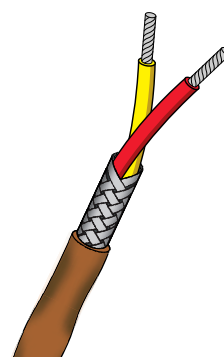
- PFA is ideal for higher temperature applications up to 480°F. It is also excellent for cryogenic temperatures down to -100°F
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA wire are made in extruded form and are therefore gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- Twisted construction with overall PFA sheath
- For PFA Multipair see page 8



PFA Twisted
One pair of **solid** conductors PFA insulated. Pair twisted and PFA sheathed.



PFA Twisted
One pair of **stranded** conductors PFA insulated. Pair twisted and PFA sheathed.



PFA Twisted with Nickel Plated Copper Braid
One pair of **stranded** conductors PFA insulated. Pair twisted with overall nickel plated copper braid and PFA sheathed.

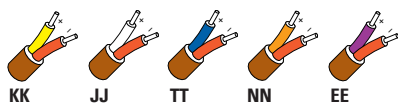
Stock Number		B25	B35	B55	B65	B40
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	7x32	13x32	7x32
	Total Wire Size - AWG (S = Stranded)	24	20	24S	21S	24S
	Total Area (mm ²)	0.2	0.5	0.22	0.44	0.22
	Insulation	PFA		PFA		PFA
PAIRS	Number of Pairs	1		1		1
	Conductor Configuration	Twisted		Twisted		Twisted
	Shielded*	No		No		Yes
OVERALL	Insulation	PFA		PFA		PFA
	Insulation Rating (°F)	Continuous		-100 to +480		-100 to +480
		Short Term		+570		+570
	Color Coding	Yes		Yes		Yes
	Physical Properties	Abrasion Resistance		Good		Good
		Moisture Resistance		Very Good		Very Good
		Typical Weight (lbs/1000ft) (excluding reel)		7 21		21
	Diameter under Armor (mm)	—		—		—
	Diameter over Armor (mm)	—		—		—
	Overall Diameter† (inches)	0.12"		0.12"		0.12"
Notes		Round section (pair lay visible through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.		Round section (pair lay visible through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.		Round section (pair lay visible through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.

* Where wire incorporate a metal braid, the braid can be used as a shield.

† These values are nominal and if critical to your application, please request a physical check.

The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Thermocouple Grade to ANSI MC96.1



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
B25	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

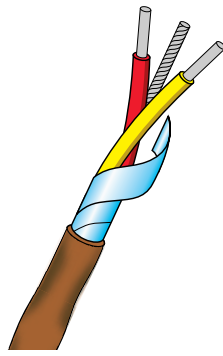
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

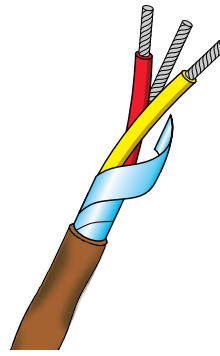
PFA Thermocouple Grade Wire

PFA Insulated Twisted Pair with Shield -100°F to +480°F

- PFA is ideal for higher temperature applications up to 480°F. It is also excellent for cryogenic temperatures down to -100°F
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA wire are made in extruded form and are therefore gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- Twisted construction with overall PFA sheath
- For PFA Multipair see page 8



PFA Twisted Pair with Shield
One pair of **solid** conductors. Cores PFA insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. PFA sheathed overall.



PFA Twisted Pair with Shield
One pair of **stranded** conductors. Cores PFA insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. PFA sheathed overall.

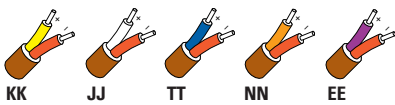
Stock Number		B70	B75	B80	B85
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	7x32	13x32
	Total Wire Size - AWG (S = Stranded)	20	16	24S	21S
	Total Area (mm ²)	0.5	1.3	0.22	0.44
	Insulation	PFA		PFA	
PAIRS	Number of Pairs	1		1	
	Conductor Configuration	Twisted		Twisted	
	Shielded*	Yes		Yes	
OVERALL	Insulation	PFA		PFA	
	Insulation Rating (°F)	Continuous		-100 to +480	
		Short Term		+570	
	Color Coding	Yes		Yes	
	Physical Properties	Abrasion Resistance		Good	
		Moisture Resistance		Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)		21	21
	Diameter under Armor (mm)	—		—	
	Diameter over Armor (mm)	—		—	
Overall Diameter† (inches)		0.16"	0.24"	0.12"	0.24"
Notes		Round section (pair lay visible through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.		Round section (pair lay visible through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.	

* Aluminised Mylar® tape in contact throughout by a bare 7/0.2mm diameter silver plated copper drainwire.

† These values are nominal and if critical to your application, please request a physical check.

The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Thermocouple Grade to ANSI MC96.1



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
B80	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

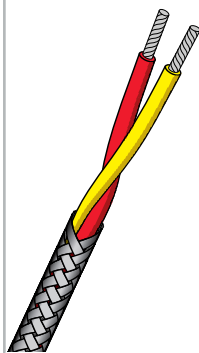
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

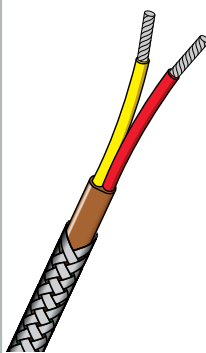
PFA Thermocouple Grade Wire

Stainless Steel Braided PFA Insulated Wire -100°F to +480°F

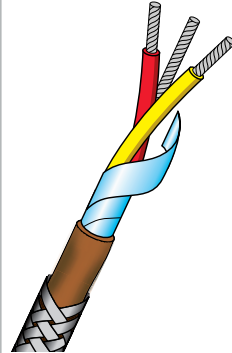
- PFA is ideal for higher temperature applications up to 480°F. It is also excellent for cryogenic temperatures down to -100°F
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA wire are made in extruded form and are therefore gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- A variety of constructions with a stainless steel braid for added mechanical protection
- For PFA Multipair see page 8



Stainless Steel Braided PFA Twisted Pair
One pair of **stranded** conductors PFA insulated. Pair twisted with overall stainless steel braid.



Stainless Steel Braided PFA Flat Twin
One pair of **stranded** conductors. Cores PFA insulated. Pair laid flat. PFA sheathed. Stainless steel braided overall.



Stainless Steel Braided PFA Twisted with Shield
One pair of **stranded** conductors PFA insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. PFA sheathed. Stainless steel braided overall.

Stock Number		B53/SSB	B50/SSB	B80/SSB
CONDUCTORS	Wire Type (number of strands x AWG)	7x34	7x32	7x32
	Total Wire Size - AWG (S = Stranded)	26S	24S	24S
	Total Area (mm ²)	0.124	0.22	0.22
	Insulation	PFA	PFA	PFA
PAIRS	Number of Pairs	1	1	1
	Conductor Configuration	Twisted	Parallel	Twisted
	Shielded*	Yes	No	Yes
OVERALL	Insulation	—	PFA	PFA
	Insulation Rating (°F)	Continuous	-100 to +480	-100 to +480
		Short Term	+570	+570
	Color Coding	Yes	Yes	Yes
	Physical Properties	Abrasion Resistance	Very Good	Very Good
		Moisture Resistance	Very Good	Very Good
		Typical Weight (lbs/1000ft) (excluding reel)	7	14
	Diameter under Armor (mm)	—	—	—
	Diameter over Armor (mm)	—	—	—
Overall Diameter† (inches)		0.08" x 0.08"	0.12"	0.12"
Notes		Rejects magnetic interference.	Oval section. Gas, steam and water tight insulation.	Round section (pair lay visible through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.

* Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire. Where wire incorporate a metal braid, the braid can be used as a shield.

† These values are nominal and if critical to your application, please request a physical check.

The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Thermocouple Grade to ANSI MC96.1



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
B50/SSB	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

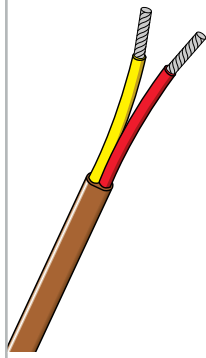
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

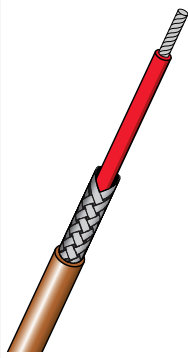
PFA Thermocouple Grade Wire

Specialist PFA and FEP Wire -100°F to +480°F / 570°F

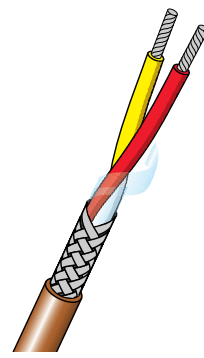
- PFA is ideal for higher temperature applications up to 480°F / 570°F. It is also excellent for cryogenic temperatures down to -100°F
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA wire are made in extruded form and are therefore gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- FEP wire is very flexible and is suitable for automotive applications
- A variety of constructions for specialist applications and interests



High Temperature PFA Insulated Flat Twin
One pair of **stranded** conductors. Cores high temperature PFA insulated. Pair laid flat. High temperature PFA sheathed.



PFA Insulated Coaxial Style
One pair of **stranded** conductors. Negative leg PFA insulated, positive leg wire braided in a coaxial style. PFA sheathed.



Flexible FEP Insulated Twisted Pair with Shield
One pair of **stranded** conductors FEP insulated. Pair twisted, polyester taped with tinned plated copper braid and FEP sheathed.

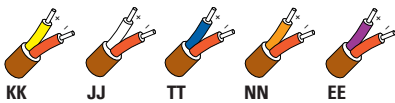
Stock Number		BH50	B93	BF45
CONDUCTORS	Wire Type (number of strands x AWG)	7x32	19x32	7x32
	Total Wire Size - AWG (S = Stranded)	24S	19S	24S
	Total Area (mm ²)	0.22	0.6	0.22
	Insulation	High Temperature PFA	PFA	FEP
PAIRS	Number of Pairs	1	1	1
	Conductor Configuration	Laid Flat	—	Twisted
	Shielded*	No	Yes	Yes
OVERALL	Insulation	High Temperature PFA	PFA	FEP
	Insulation Rating (°F)	Continuous	-100 to +570	-85 to +410
		Short Term	+570	—
	Color Coding	Yes	Yes	Yes
	Physical Properties	Abrasion Resistance	Good	Good
		Moisture Resistance	Very Good	Very Good
		Typical Weight (lbs/1000ft) (excluding reel)	7	11
	Diameter under Armor (mm)	—	—	—
	Diameter over Armor (mm)	—	—	—
Overall Diameter† (inches)		0.118"	0.1"	0.100"
Notes		Gas, steam and water tight insulation.	Round section. Rejects electromagnetic interference. Coaxial style wire.	Extremely flexible wire.

* Where wire incorporate a metal braid, the braid can be used as a shield.

† These values are nominal and if critical to your application, please request a physical check.

The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Thermocouple Grade to ANSI MC96.1



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
BH50	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request



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