

Thermocouple Grade Wire Single Pair - PFA Insulated



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

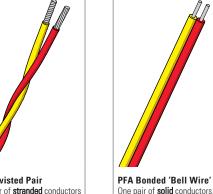
PFA Insulated Twisted Pair / PFA Insulated Bonded 'Bell Wire' -100°F to +480°F

- 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 stranded conductors PFA insulated. Pair twisted.



One pair of solid conductors. Pair laid flat and PFA sheathed. Oval, bonded construction.	
B16	
Solid	
24	l
0.2	
PFA	
1	
Parallel	
No	
_	
-100 to +480	
+570	
Yes	
Good	
Very Good	

0.037"x0.077" Gas, steam and water tight insulation. Oval wire with bonded construction. Ideal for use in autoclaves.

		Stock Number	B10	B11	B12	B53	B54	
RS	Wire Type (number of strands x AWG)		Solid	Solid	Solid	7x26	7x32	
CONDUCTORS	Total Wire Size	- AWG (S = Stranded)	32	28	24	26S	248	
	Total Area (mm	²)	0.03	0.07	0.2	0.124	0.22	
00	Insulation			PFA		PFA		
S	Number of Pair	s		1			I	
PAIRS	Conductor Conf	figuration	Twisted			Twisted		
_	Shielded		No			No		
	Insulation			_		_		
	Insulation	Continuous	-100 to +480			-100 to +480		
	Rating (°F)	Short Term	+570			+570		
	Color Coding		Yes			Y	es	
OVERALL		Abrasion Resistance		Good			od	
VEF	Physical Properties	Moisture Resistance	Very Good		d	Very Good		
0		Typical Weight (lbs/1000ft) (excluding reel)	7	7	7	7	7	
	Diameter under	r Armor (inches)	_			_		
	Diameter over A	Armor (inches)		_		_	_	
	Overall Diamete	er [†] (inches)	0.08"	0.08"	0.08"	0.059"	0.12"	
		Notes	interferen	ectromagne ce. Gas, ste t insulation	eam and	Rejects electror interference. Ga water tight insu	is, steam and	

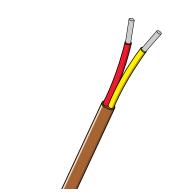
[†] These values are nominal and if critical to your application, please request a physical check.

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.

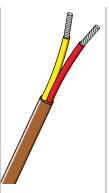
Color Codes available Thermocouple Grade to ANSI MC96.1	Order Code - Examp	ole	
to to to to	Stock No.	Thermocouple Type	Color Code
KK JJ TT NN EE	B10	- KK -	ANSI
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 KX JX TX NX EX SX RX	TT, NN or EE. Other le on request. Thermocouple wire is	available in the followings popular thermocouple normally available from ANSI MC96.1 colour cod	types are available us for immediate

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



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

Solid 32 0.03 PFA 1 Parallel No PFA -100 to +48		B20 Solid 24 0.2	830 Solid 20 0.5	Par N	13x32 21S 0.44 FA	
32 0.03 PFA 1 Parallel No PFA	28 0.07	24	20	24S 0.22 PI Para	21S 0.44 FA I allel	
0.03 PFA 1 Parallel No PFA -100 to +48	0.07			0.22 PI	0.44 FA I allel	
PFA 1 Parallel No PFA -100 to +48		0.2	0.5	Pi Par	FA I allel	
1 Parallel No PFA -100 to +48				Par N	l allel lo	
Parallel No PFA -100 to +48				Par	allel lo	
No PFA -100 to +48				N	0	
PFA -100 to +48	80					
-100 to +48	80			PI	-A	
	80					
				-100 to	+480	
+570						
Yes	Yes			Yes		
Good						
Very Good						
3	4	7	14	7	14	
_						
_						
0. 0.04"x0. 04"	0.08"x0. 04"	0.08"x0. 12"	0.12"x0. 16"	0.08"x0.12"	0.08"x0.12"	
water tight i	insulation.			Oval section. (water tight ins		
	— 0. 0.04"x0. 04"	 0. 0.04"x0. 0.08"x0.	 0. 0.04"x0. 0.08"x0. 0.08"x0. 04" 04" 12"			

[†] 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 - Exam	imple						
J×,	,			J.	is .			Stock No.	Thermo	ocouple Type	Color Code
KK	JJ	π	NN	EE				B50	-	KK -	ANSI
ALSO AVA	JX	s Extensio	n Grade to	ANSI MC90	5.1 SX	RX		Thermocouple wire i TT, NN or EE. Other I on request. Thermocouple wire i delivery from stock t	ess popula	r thermocoupl	e types are available

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 TwistedOne 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	
RS	Wire Type (nun	Wire Type (number of strands x AWG)		Solid	7x32	13x32	
CONDUCTORS	Total Wire Size	e - AWG (S = Stranded)	24	20	248	218	
ND	Total Area (mm	²)	0.2	0.5	0.22	0.44	
00	Insulation		PI	A	PI	A	
S	Number of Pair	's	•	I		I	
PAIRS	Conductor Con	figuration	Twi	Twisted		sted	
Д.	Shielded*		N	No		0	
	Insulation		PI	A	PI	FA	
	Insulation Rating (°F)	Continuous	-100 to	0 +480	-100 to +480		
		Short Term	+5	70	+570		
_	Color Coding		Yes		Yes		
OVERALL	Abrasion Resistance		Go	od	Good		
)VE	Physical Properties	Moisture Resistance	Very	Good	Very	Good	
		Typical Weight (lbs/1000ft) (excluding reel)	7	21	7	14	
	Diameter under Armor (mm)		_			_	
	Diameter over Armor (mm)		_		_	_	
	Overall Diamet	er† (inches)	0.12"	0.12"	0.12"	0.12"	
		Notes	Round section visible through Rejects electro interference. (n sheath).	Round section (p through sheath). electromagnetic Gas, steam and	Rejects interference.	

B40
7x32
24S
0.22
PFA
1
Twisted
Yes
PFA
-100 to +480
+570
Yes
Good
Very Good
21
_
_
0.12"
Round section (pair lay visible

through sheath). Rejects electromagnetic interference. Gas, steam and water tight insulation.

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.

water tight insulation.

Color Codes available Thermocouple Grade to ANSI MC96.1	Order Code - Example			
Six Six Six Six	Stock No.	Thermocouple Type	Color Code	
KK JJ TT NN EE	B25	- KK -	ANSI	
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 KX JX TX NX EX SX RX	TT, NN or EE. Other le on request. Thermocouple wire is	available in the followin ss popular thermocouple normally available from ANSI MC96.1 colour coo	types are available	

IEC colors are available on request

insulation.

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

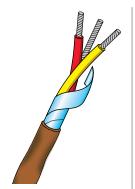
[†] These values are nominal and if critical to your application, please request a physical check.

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	
RS	Wire Type (num	iber of strands x AWG)	Solid	Solid	7x32	13x32	
CONDUCTORS	Total Wire Size	- AWG (S = Stranded)	20	16	24\$	21\$	
ND N	Total Area (mm	²)	0.5	1.3	0.22	0.44	
00	Insulation		PF	-A	PFA		
S	Number of Pair	s	1		1		
PAIRS	Conductor Conf	iguration	Twis	sted	Twisted		
4	Shielded*		Ye	es	Yes		
	Insulation		PF	-A	PFA		
	Insulation	Continuous	-100 to	+480	-100 t	0 +480	
	Rating (°F)	ting (°F) Short Term		70	+570		
_	Color Coding		Ye	es	Y	es	
OVERALL		Abrasion Resistance		od	Good		
)VE	Physical Moisture Resistance Properties		Very	Good	Very Good		
		Typical Weight (lbs/1000ft) (excluding reel)	21	28	21	21	
	Diameter under	Armor (mm)	_		_		
	Diameter over A	Armor (mm)	_		_		
	Overall Diamet	er† (inches)	0.16"	0.24"	0.12"	0.24"	
		Notes	Round section (pair sheath). Rejects ele interference. Gas, s tight insulation.	ectromagnetic steam and water	Round section (pair sheath). Rejects eli interference. Gas, 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	Order Code - Exam	ple	
Six Six Six Six	Stock No.	Thermocouple Type	Color Code
KK JJ TT NN EE	B80	- KK -	ANSI
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 KX JX TX NX EX SX RX	TT, NN or EE. Other loon request.	s available in the followin ess popular thermocouple s normally available from a ANSI MC96.1 colour coc	types are available us for immediate

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

Stock Number

- 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

Wire Type (number of strands x AWG)

Total Wire Size - AWG (S = Stranded)

Continuous

Short Term

Ahrasion Resistance

Moisture Resistance

Typical Weight (lbs/1000ft)

For PFA Multipair see page 8

Total Area (mm2) Insulation

Number of Pairs Conductor Configuration

Shielded*

Insulation

Insulation Rating (°F)

Color Coding

Physical

Properties

Diameter under Armor (mm) Diameter over Armor (mm) Overall Diameter[†] (inches)



Stainless Steel Braided **PFA Twisted Pair** One pair of stranded conductors PFA insulated.

B53/SSB

7x34

26S 0.124

PFA

Twisted

Yes

-100 to +480

+570

Yes

Very Good

Very Good

7

0.08"x 0.08" Notes | Rejects magnetic interference.

Pair twisted with overall stainless steel braid



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

braided overall.
B50/SSB
7x32
24\$
0.22
PFA
1
Parallel
No
PFA
-100 to +480
+570
Yes
Very Good
Very Good
7
_
_
0.12"
Oval section. Gas, steam and water tight Insulation.



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

B80/SSB
7x32
24S
0.22
PFA
1
Twisted
Yes
PFA
-100 to +480
+570
Yes
Very Good
Very Good
14
_
_
0.12"
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	Order Code - Example		
the the testing	Stock No.	Thermocouple Type	Color Code
KK JJ TT NN EE	B50/SSB	- KK -	ANSI
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 KX JX TX NX EX SX RX	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.		

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.

TTT GIOGRAPOL.				
B93				
19x32				
198				
0.6				
PFA				
1				
_				
Yes				
PFA				
-100 to +480				
+570				
Yes				
Good				
Very Good				
14				
_				
_				
0.1"				
Round section. Rejects electromagnetic interference. Coaxial style wire.				



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.

BF45
7x32
24S
0.22
FEP
1
Twisted
Yes
FEP
-85 to +410
_
Yes
Good
Very Good
11
_
_
0.100"
Extremely flexible wire.

		Stock Number	BH50		
IRS	Wire Type (number of strands x AWG)		7x32		
CONDUCTORS	Total Wire Size	- AWG (S = Stranded)	24S		
	Total Area (mm	²)	0.22		
00	Insulation		High Temperature PFA		
PAIRS	Number of Pairs		1		
	Conductor Conf	figuration	Laid Flat		
	Shielded*		No		
	Insulation		High Temperature PFA		
	Insulation Rating (°F)	Continuous	-100 to +570		
		Short Term	+590		
	Color Coding		Yes		
OVERALI	Physical Properties	Abrasion Resistance	Good		
VE		Moisture Resistance	Very Good		
0		Typical Weight (lbs/1000ft) (excluding reel)	7		
	Diameter under Armor (mm)		_		
	Diameter over Armor (mm)		_		
	Overall Diamet	er† (inches)	0.118"		
		Notes	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			Order Code - Example					
The State State State			Stock No.	Thermocouple Type	Color Code			
KK .	и п	NN	EE			BH50	- KK -	ANSI
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 KX JX TX NX EX SX RX				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.				



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