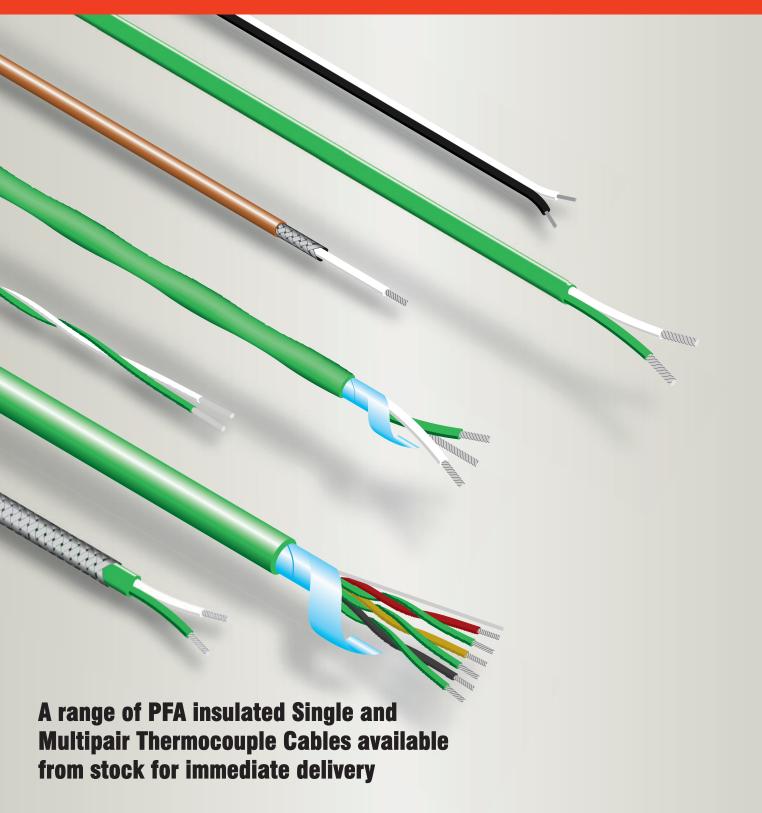
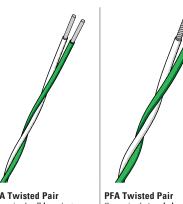


PFA Insulated Thermocouple Cables - Single and Multipairs

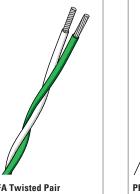


PFA Insulated Twisted Pair / PFA Insulated Bonded 'Bell Wire' / PTFE 'Single Shot' -75°C to +250°C

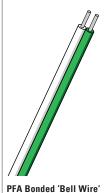
- PFA is ideal for higher temperature applications up to 250°C. It is also excellent for cryogenic temperatures down to -75°C
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA cables are made in extruded form and are therefore gas, steam and water tight which makes 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 PairOne pair of **solid** conductors
PFA insulated. Pair twisted.



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



PFA Bonded 'Bell Wire' One pair of solid conductors PFA insulated, laid flat and bonded together. Oval construction.

B16
Solid
1/0.5
0.2
24
PFA
1
Laid Flat
No
_
-75 to +250
+300
Yes
Good
Very Good
1
_
_
0.95x1.95
Gas, steam and water

tight insulation. Oval cable

with bonded construction.

Ideal for use in autoclaves



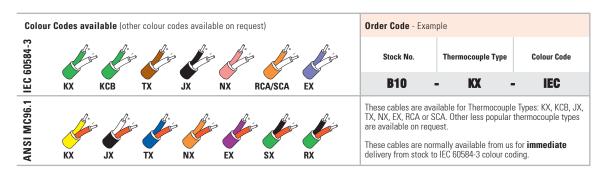
PTFE 'Single Shot'
One pair of solid conductors.
Pair laid flat and PTFE
sheathed. Round or Oval
construction.

B13 ROUND	B15 OVAL
So	lid
1/0.376	1/0.376
0.11	0.11
27	27
PT	FE
1	I
Laid	Flat
N	0
_	_
-75 to	+250
+3	00
Ye	es
Go	od
Very	Good
1	1
_	_
_	_
2.3	1.5x2.6
Con atoom on	dustor

Gas, steam and water tight insulation. Single shot construction. Ideal for use in autoclaves.

		Stock Number	B10	B11	B12	B53	B54
s	Conductor Style		Solid			Stranded	
TOR	No. of Strands / S	1/0.2	1/0.3	1/0.5	7/0.15	7/0.2	
No. of Strands / Strand Diameter (n Total Area (mm²) Total AWG (S = Stranded))	0.03	0.07	0.2	0.124	0.22
NO	Total AWG (S = S	tranded)	32	28	24	26S	24S
ပ	Insulation			PFA		PI	FA
s	Number of Pairs			1			1
PAIRS	Laid Flat or Twis	ted		Twisted		Twi	sted
Д.	Screen			No		No	
	Insulation		_			_	
	Insulation	Continuous	-75 to +250			-75 to +250	
	Rating (°C)	Short Term	+300			+3	800
_	Colour Coding		Yes			Y	es
OVERALL		Abrasion Resistance	Good			Go	ood
VEF	Physical Properties	Moisture Resistance	Very Good			Very Good	
0	Troportios	Typical Weight (Kg/100m) (excluding reel)	1	1	1	1	1
	Diameter under Armour (mm)		_				_
	Diameter over Armour (mm)		_				_
	Overall Diameter	† (mm)	2.0	2.0	2.0	1.5	3.0
		Notes	Rejects electromagnetic interference.			Rejects electror interference. Ga water tight insu	as, steam and

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



PFA Insulated Flat Twin Cables -75°C to +250°C

- PFA is ideal for higher temperature applications up to 250°C. It is also excellent for cryogenic temperatures down to -75°C
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA cables 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 Multipairs see page 8



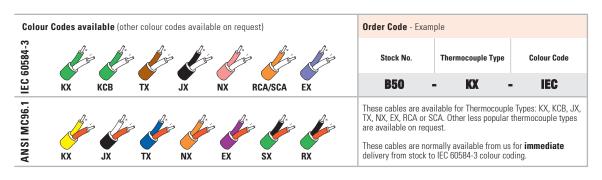
PFA Flat TwinOne pair of **solid** conductors. Cores PFA insulated. Pair laid flat. PFA sheathed overall.



PFA Flat 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
					Solid				Stranded	
No. of Strands / Strand Diameter (mm)		1/0.076	1/0.15	1/0.376	1/0.2	1/0.3	1/0.5	1/0.8	7/0.2	13/0.2
No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded)		0.005	0.018	0.111	0.03	0.07	0.2	0.5	0.22	0.44
Total AWG (S = Stranded)		41	34	27	32	28	24	20	24S	21S
Insulation					PFA				P	FA
Number of Pairs					1					1
Laid Flat or Twisted					Laid Flat				Laid	l Flat
Screen					No				N	lo
Insulation			PFA					P	FA	
Insulation Continuous		-75 to +250						-75 to +250		
Rating (°C)	Short Term	+300						+300		
Colour Coding		Yes					Υ	es		
	Abrasion Resistance	Good						Go	ood	
	Moisture Resistance	Very Good					Very Good			
. repende	Typical Weight (Kg/100m) (excluding reel)	0.05	<1	1	0.4	.5	1	2	1	2
Diameter under A	rmour (mm)	_						_	_	
Diameter over Armour (mm)					_				_	_
Overall Diameter	† (mm)	0.5x0.7	0.5x0.8	2x2	1x1	2x1	2x3	3x4	2x3	2x3
	Notes	Oval section. Gas, steam and water tight insulation. Oval section. Water tight insulation.					Gas, steam and sulation.			
	No. of Strands / S Total Area (mm²) Total AWG (S = St Insulation Number of Pairs Laid Flat or Twist Screen Insulation Insulation Rating (°C) Colour Coding Physical Properties Diameter under A	Conductor Style No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded) Insulation Number of Pairs Laid Flat or Twisted Screen Insulation Insulation Rating (°C) Colour Coding Abrasion Resistance Physical Properties Moisture Resistance Typical Weight (Kg/100m) Diameter under Armour (mm) Diameter over Armour (mm) Overall Diameter † (mm)	Conductor Style No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded) Insulation Number of Pairs Laid Flat or Twisted Screen Insulation Insulation Rating (°C) Continuous Short Term Colour Coding Abrasion Resistance Physical Properties Moisture Resistance Typical Weight (Kg/100m) Diameter under Armour (mm) Diameter over Armour (mm) Overall Diameter † (mm) 0.5x0.7	Conductor Style No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded) Insulation Number of Pairs Laid Flat or Twisted Screen Insulation Insulation Rating (°C) Continuous Short Term Colour Coding Abrasion Resistance Physical Properties Moisture Resistance Typical Weight (Kg/100m) (0.05 <1 Diameter under Armour (mm) Diameter over Armour (mm) Overall Diameter † (mm) 0.5x0.7 0.5x0.8	Conductor Style No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded) Number of Pairs Laid Flat or Twisted Screen Insulation Insulation Rating (°C) Continuous Short Term Colour Coding Abrasion Resistance Physical Properties Moisture Resistance Typical Weight (Kg/100m) (excluding reel) Diameter under Armour (mm) Diameter over Armour (mm) Overall Diameter † (mm) 11/0.076 1/0.15 1/0.376 1/0.035 1.010 1.011 1.027 1	Conductor Style Solid	Conductor Style Solid	Conductor Style Solid No. of Strands / Strand Diameter (mm) 1/0.076 1/0.15 1/0.376 1/0.2 1/0.3 1/0.5 Total Area (mm²) 0.005 0.018 0.111 0.03 0.07 0.2 Total AWG (S = Stranded) 41 34 27 32 28 24 Insulation PFA	Conductor Style	Conductor Style

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

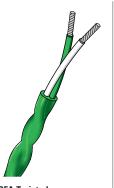


PFA Insulated Twisted and Sheathed Cables -75°C to +250°C

- PFA is ideal for higher temperature applications up to 250°C. It is also excellent for cryogenic temperatures down to -75°C
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA cables 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 Multipairs see page 8



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



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 shouthed.

B40 Stranded

		Stock Number	B25	B35	B55	B65
s	Conductor Style		luctor Style Solid		Stranded	
CONDUCTORS	No. of Strands / S	1/0.5	1/0.8	7/0.2	13/0.2	
000	Total Area (mm²)		0.2	0.5	0.22	0.44
NO	Total AWG (S = S	tranded)	24	20	24S	21S
Ö	Insulation		PF	A	PF	A
S	Number of Pairs	1		1	I	
PAIRS	Laid Flat or Twist	ed	Twi	sted	Twi	sted
_	Screen*		No		No	
	Insulation		PFA		PFA	
	Insulation	Continuous	-75 to	+250	-75 to	+250
	Rating (°C)	Short Term	+300		+300	
_	Colour Coding		Yes		Yes	
RAL	Abrasion Resistance		Good		Good	
OVERALL	Physical Properties	Moisture Resistance	Very	Good	Very	Good
0		Typical Weight (Kg/100m) (excluding reel)	1	3	3	3
	Diameter under Armour (mm) Diameter over Armour (mm)		_	_	_	_
			_	_	_	_
	Overall Diameter	† (mm)	3.0	3.0	3.0	3.0
		Round section		Round section (p		

	1/0.2
	0.22
	24\$
	PFA
	1
	Twisted
	Yes
	PFA
	-75 to +250
	+300
	Yes
	Good
	Very Good
	3
	_
	_
	3.0
R	lound section (pair lay visible hrough sheath). Rejects

electromagnetic interference. Gas,

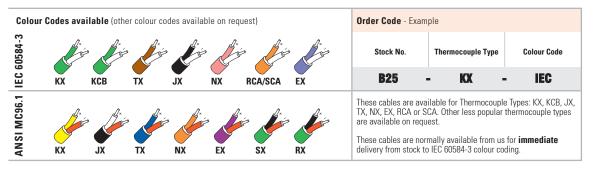
steam and water tight insulation.

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

Rejects electromagnetic

water tight insulation.

interference. Gas. steam and



electromagnetic interference.

Gas, steam and water tight

insulation.

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

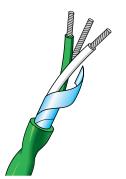
[†] These values are nominal and if critical to your application, please request a physical check.

PFA Insulated Twisted Pair with Screen -75°C to +250°C

- PFA is ideal for higher temperature applications up to 250°C. It is also excellent for cryogenic temperatures down to -75°C
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA cables 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 Multipairs see page 8



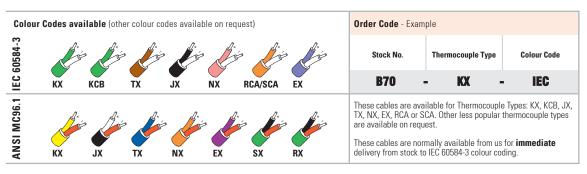
PFA Twisted Pair with Screen One pair of solid conductors. Cores PFA insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. PFA sheathed overall.



PFA Twisted Pair with Screen
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
S	Conductor Style No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded)		So	lid	Stra	nded
TOR			1/0.8	1/1.29	7/0.2	13/0.2
.30			0.5	1.3	0.22	0.44
ONIC	Total AWG (S = S	tranded)	20	16	24S	21S
2	Insulation		PI	A	PI	FA
S	Number of Pairs		•			1
PAIRS	Laid Flat or Twisted Screen*		Twi	sted	Twi	sted
٩			Yes		Yes	
	Insulation		PFA		PFA	
	Insulation Continuous		-75 to +250		-75 to +250	
	Rating (°C)	Short Term	+300		+3	00
_	Colour Coding	Colour Coding		Yes		es
OVERALL		Abrasion Resistance	Good		Good	
VE	Physical Properties	Moisture Resistance	Very Good		Very Good	
٥		Typical Weight (Kg/100m) (excluding reel)	3	4	2	3
	Diameter under Armour (mm) Diameter over Armour (mm)		_		_	_
			_		_	_
	Overall Diameter	† (mm)	4.0	6.0	3.0	4.0
		Notes	Round section (pair sheath). Rejects ele interference. Gas, s tight insulation.	ectromagnetic	Round section (pair sheath). Rejects el- 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.

Stainless Steel Braided PFA Insulated Cables -75°C to +250°C

- PFA is ideal for higher temperature applications up to 250°C. It is also excellent for cryogenic temperatures down to -75°C
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA cables 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 Multipairs 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 Screen

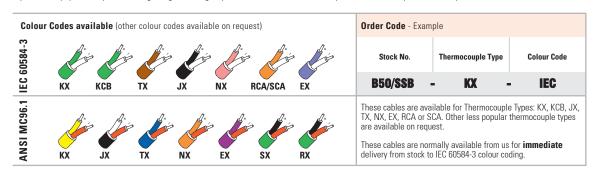
One pair of **stranded** conductors PFA insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. PFA sheathed. Stainless steel braided overall.

		Stock Number	B53/SSB
S	Conductor Style		Stranded
CONDUCTORS	No. of Strands / S	7/0.15	
.30	Total Area (mm²	0.124	
OND	Total AWG (S = S	Stranded)	26S
2	Insulation		PFA
S	Number of Pairs		1
PAIRS	Laid Flat or Twis	Twisted	
٦	Screen*		Yes
	Insulation		_
	Insulation Rating (°C)	Continuous	-75 to +250
		Short Term	+300
_	Colour Coding		Yes
OVERALL		Abrasion Resistance	Very Good
VEF	Physical Properties	Moisture Resistance	Very Good
0		Typical Weight (Kg/100m) (excluding reel)	1
	Diameter under	Armour (mm)	_
	Diameter over A	rmour (mm)	_
	Overall Diamete	r [†] (mm)	2.0
		Notes	Rejects magnetic interference.

Stranded
7/0.2
0.22
24S
PFA
1
Laid Flat
Yes
PFA
-75 to +250
+300
Yes
Very Good
Very Good
1
_
_
3.0

B80/SSB
Stranded
7/0.2
0.22
24S
PFA
1
Twisted
Yes
PFA
-75 to +250
+300
Yes
Very Good
Very Good
3
_
_
3.0
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 cables incorporate a metal braid, the braid can be used as a screen.
† These values are nominal and if critical to your application, please request a physical check.

Specialist PFA and FEP Cables -75°C to +250°C / 300°C

- PFA is ideal for higher temperature applications up to 250°C / 300°C. It is also excellent for cryogenic temperatures down to -75°C
- Withstands attack from virtually all known chemicals, oils and fluids. All our PFA cables 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 cable is very flexible and suitable for a variety of applications, paticularly in the automotive industry
- 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.

temperature PFA sheathed.

Pair laid flat. High



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

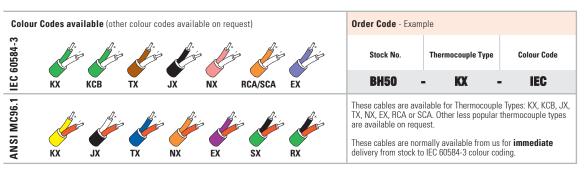


Flexible FEP Insulated Twisted Pair with Screen One pair of stranded conductors FEP insulated. Pair twisted, polyester taped with tinned plated copper braid and FEP sheathed.

		Stock Number	BH50
S	Conductor Style	Stranded	
CONDUCTORS	No. of Strands / S	7/0.2	
	Total Area (mm²		0.22
OND	Total AWG (S = S	tranded)	24S
ວ	Insulation		PFA
S	Number of Pairs		1
PAIRS	Laid Flat or Twis	ted	Laid Flat
<u> </u>	Screen*		No
	Insulation		_
	Insulation Rating (°C)	Continuous	-75 to +300
		Short Term	+310
_	Colour Coding		Yes
OVERALL		Abrasion Resistance	Good
VEF	Physical Properties	Moisture Resistance	Very Good
0		Typical Weight (Kg/100m) (excluding reel)	1
	Diameter under A	Armour (mm)	_
	Diameter over A	mour (mm)	_
	Overall Diameter	2x3	
		Notes	Gas, steam and water tight insulation.

B93
Stranded
19/0.2
0.6
19S
PFA
1
_
Yes
_
-75 to +250
+300
Yes
Good
Very Good
2
_
_
2.45
Round section. Rejects electromagnetic interference. Coaxial style cable.

BF45
Stranded
7/0.2
0.22
24S
FEP
1
Twisted
Yes
FEP
-65 to +210
_
Yes
Good
Very Good
1.5
_
_
2.5
Extremely flexible cable.



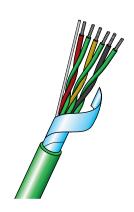
^{*} Where cables incorporate a metal braid, the braid can be used as a screen.

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

PFA Insulated Multipair Thermocouple Cable

PFA Insulated Multipair with Screen -75°C to +250°C

- Ideal for higher temperature applications up to 250°C when Heat Resistant PVC is not adequate
- Excellent for cryogenic use down to -75°C
- PFA will withstand attack from virtually all known chemicals, oils and fluids. All our PFA cables are gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- By using multipair, the problem of having many unwieldy single pair cables is eliminated



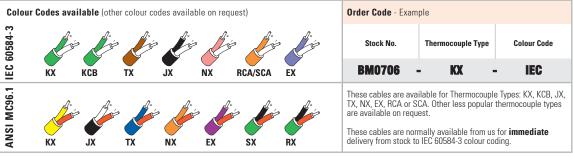
PFA Multipair

Multipairs of 7/0.2mm diameter conductors PFA insulated. Pairs twisted, bunched and screened with Mylar® aluminium tape with a drainwire. PFA sheathed.

		Stock Number	BM0702	BM0703	BM0704	BM0706	BM0712		
S	Conductor Style		Stranded						
CONDUCIORS	No. of Strands / Strand Diameter (mm)		7/0.2	7/0.2	7/0.2	7/0.2	7/0.2		
פ	Total Area (mm²)		0.22	0.22	0.22	0.22	0.22		
	Total AWG (S = Stranded)		24S	24S	24S	24\$	24S		
3	Insulation		PFA						
2	Number of Pairs		2	3	4	6	12		
LAINS	Laid Flat or Twist	ed	Twisted						
ב	Screen*		No						
	Insulation		PFA						
	Insulation	Continuous	-75 to +250						
	Rating (°C)	Short Term	+300						
	Colour Coding		Yes						
:	Screen*		Yes - Collective, Overall Screen						
UVENALL		Abrasion Resistance	Very Good						
5	Physical Properties	Moisture Resistance	Very Good						
		Typical Weight (Kg/100m) (excluding reel)	2	3	4	5	10		
	Diameter under A	rmour (mm)	_						
	Diameter over Armour (mm)		_						
	Overall Diameter	† (mm)	4	4	5	6	8		

Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire. These values are nominal and if critical to your application, please request a physical check.

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



Note: Colour coding on the negative leg of multipair cables is different in order to facilitate pair identification

PFA Insulated Multipair Thermocouple Cable

Stainless Steel Braided PFA Insulated Multipair with Screen -75°C to +250°C

- Ideal for higher temperature applications up to 250°C when Heat Resistant PVC is not adequate
- Excellent for cryogenic use down to -75°C
- PFA will withstand attack from virtually all known chemicals, oils and fluids. All our PFA cables are gas, steam and water tight which makes them most suitable for applications such as autoclaves or sterilizers
- By using multipair, the problem of having many unwieldy single pair cables is eliminated



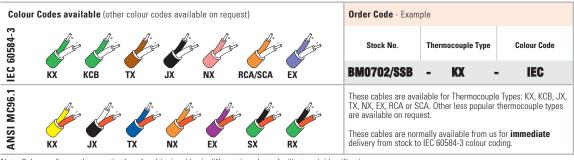
PFA Multipair with Stainless Steel Braid

Multipairs of 7/0.2mm diameter conductors PFA insulated. Pairs twisted, bunched and screened with Mylar® aluminium tape with a drainwire. PFA sheathed with overall stainless steel braid.

		Stock Number	BM0702/SSB	BM0703/SSB	BM0704/SSB	BM0706/SSB	BM0712/SSB	BM0716/SSB	
S	Conductor Style		Stranded						
CONDUCTORS	No. of Strands / S	Strand Diameter (mm)	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	
	Total Area (mm²)	0.22	0.22	0.22	0.22	0.22	0.22	
	Total AWG (S = S	Stranded)	24S	24\$	24\$	24\$	24S	24S	
	Insulation		PFA						
PAIRS	Number of Pairs		2	3	4	6	12	16	
	Laid Flat or Twis	ted	Twisted						
۵	Screen*		No						
	Insulation		PFA						
	Insulation Rating (°C)	Continuous	-75 to +250						
		Short Term	+300						
	Colour Coding		Yes						
7	Screen*		Yes - Collective, Overall Screen						
OVERALL		Abrasion Resistance	Very Good						
0	Physical Properties	Moisture Resistance	Very Good						
		Typical Weight (Kg/100m) (excluding reel)	3	5	6	7	12	14	
	Diameter under A	Armour (mm)	_						
	Diameter over A	rmour (mm)	_						
	Overall Diameter	r [†] (mm)	5	5	6	7	9	10	
Notes			Rejects electromagnetic and electrostatic interference. Gas, steam and water tight insulation.						

Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire. Where cables incorporate a metal braid, the braid can be used as a screen. These values are nominal and if critical to your application, please request a physical check.

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



Note: Colour coding on the negative leg of multipair cables is different in order to facilitate pair identification



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