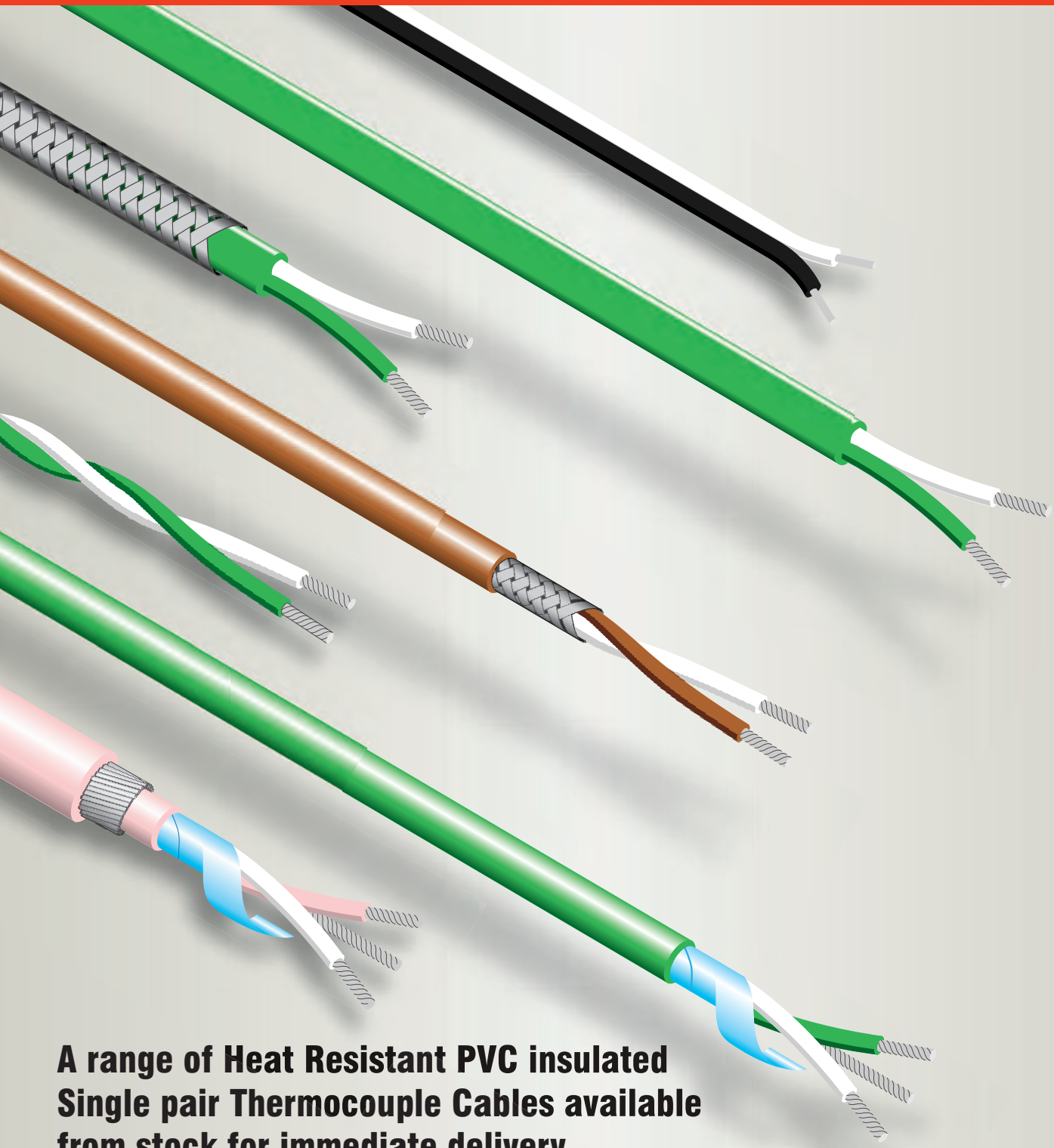




Heat Resistant PVC Insulated Thermocouple Cables - Single Pairs



**A range of Heat Resistant PVC insulated
Single pair Thermocouple Cables available
from stock for immediate delivery**

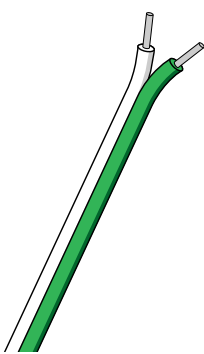
Flame Retardant PVC cables also available - request our separate datasheet

TC Ltd for Temperature Sensing, Measurement and Control

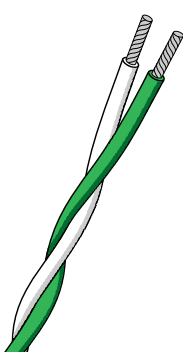
HR PVC Insulated Single Pair Thermocouple Cable

Heat Resistant PVC Insulated ‘Ripcord’ / PVC Twisted Pair **-30°C to +105°C**

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -30°C to +105°C
- The grade of PVC used on these cables is to BS7655:Part 4 Section 4.2 Type 5/UL Style 105°C rated (15,000 hours at 105°C)
- Twisted pair construction is ideal for making simple thermocouples and it rejects electromagnetic interference
- ‘Ripcord’ construction allows for easy separation of conductors



HR PVC ‘Ripcord’
One pair of **solid** conductors. Cores HR PVC insulated. Pair laid flat and welded together in a ‘rip cord’ construction.



HR PVC Twisted Pair
One pair of **stranded** conductors. Cores HR PVC insulated. Pair twisted.

Stock Number				A10		A80
CONDUCTORS	Number of Strands			1		13
	Size of Strand	Diameter (mm)		0.5		0.2
		Total Area (mm ²)		0.2		0.44
		Approx. Gauge	SWG	25		36
			AWG	24		32
	Insulation			Heat Resistant PVC		Heat Resistant PVC
PAIRS	Number of Pairs			1		1
	Laid Flat or Twisted			Laid Flat		Twisted
	Screen			No		No
OVERALL	Insulation			Heat Resistant PVC		Heat Resistant PVC
	Insulation Rating (°C)	Continuous		-30 to +105		-30 to +105
		Short Term		—		—
	Colour Coding			Yes		Yes
	Physical Properties	Abrasion Resistance		Good		Good
		Moisture Resistance		Very Good		Very Good
		Typical Weight (Kg/100m) (excluding reel)		1		2
	Diameter under Armour (mm)			—		—
	Diameter over Armour (mm)			—		—
	Overall Diameter [†] (mm)			2x3		4
Notes				“Figure of eight” or “bell wire” type.		Rejects electromagnetic interference.

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

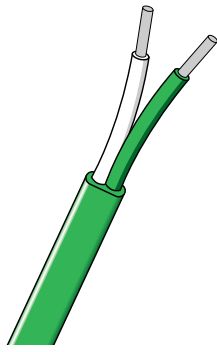
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example		
IEC 60584-3		Stock No.	Thermocouple Type	Colour Code
		A10	- KX	- IEC
ANSI MC96.1		These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.		
		These cables are normally available from us for immediate delivery from stock to IEC 60584-3 colour coding.		

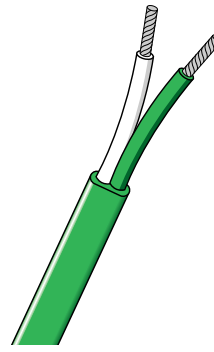
HR PVC Insulated Single Pair Thermocouple Cable

Heat Resistant PVC Insulated Flat Twin Cables -30°C to +105°C

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -30°C to +105°C
- The grade of PVC used on these cables is to BS7655:Part 4 Section 4.2 Type 5/UL Style 105°C rated (15,000 hours at 105°C)
- Flat twin construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose applications
- Multipair cables are also available, please contact us for details



HR PVC Flat Twin
One pair of **solid** conductors. Cores HR PVC insulated. Pair laid flat. HR PVC sheathed overall.

















HR PVC Flat Twin
One pair of **stranded** conductors. Cores HR PVC insulated. Pair laid flat. HR PVC sheathed overall.

Stock Number				A13	A14	A15	A30	A40	A50	A60	A65	A70
CONDUCTORS	Number of Strands			1	1	1	7	13	23	32	40	3
	Size of Strand	Diameter (mm)		0.5	0.8	1.29	0.2	0.2	0.2	0.2	0.2	0.91
		Total Area (mm ²)		0.2	0.5	1.3	0.22	0.44	0.75	1.0	1.3	2.0
		Approx. Gauge	SWG	25	21	18	36	36	36	36	36	20
			AWG	24	20	16	32	32	32	32	32	19
	Insulation			Heat Resistant PVC			Heat Resistant PVC					
PAIRS	Number of Pairs			1			1					
	Laid Flat or Twisted			Laid Flat			Laid Flat					
	Screen			No			No					
OVERALL	Insulation			Heat Resistant PVC			Heat Resistant PVC					
	Insulation Rating (°C)	Continuous		-30 to +105			-30 to +105					
		Short Term		—			—					
	Colour Coding			Yes			Yes					
	Physical Properties	Abrasion Resistance		Good			Good					
		Moisture Resistance		Very Good			Very Good					
		Typical Weight (Kg/100m) (excluding reel)		3	4	5	2	3	4	5	6	7
	Diameter under Armour (mm)			—			—					
	Diameter over Armour (mm)			—			—					
Overall Diameter [†] (mm)			3x5	3x5	4x6	3x4	3x5	4x6	4x6	5x7	5x8	
Notes				Oval section. Good general purpose construction.			Oval section. Good general purpose flexible construction. A60, A65 and A70 are more robust.					

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

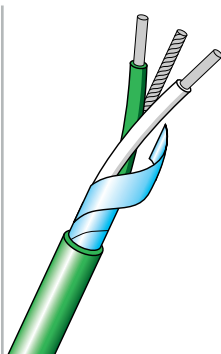
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example		
IEC 60584-3				
				
ANSI MC96.1				
				
		Stock No.	Thermocouple Type	Colour Code
		A30	- KX	- IEC
		These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.		
		These cables are normally available from us for immediate delivery from stock to IEC 60584-3 colour coding.		

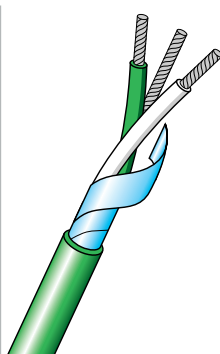
HR PVC Insulated Single Pair Thermocouple Cable

Heat Resistant PVC Insulated Twisted Cables -30°C to +105°C

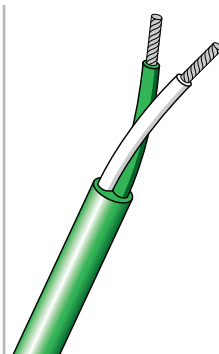
- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -30°C to +105°C
- The grade of PVC used on these cables is to BS7655:Part 4 Section 4.2 Type 5/UL Style 105°C rated (15,000 hours at 105°C)
- Twisted construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose applications
- Multipair cables are also available, please contact us for details



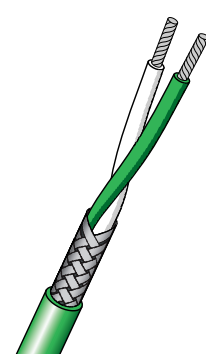
HR PVC Twisted Pair with Screen
One pair of **solid** conductors. Cores HR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. HR PVC sheathed overall.



HR PVC Twisted Pair with Screen
One pair of **stranded** conductors. HR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. HR PVC sheathed overall.



HR PVC Twisted Pair
One pair of **stranded** conductors. Cores HR PVC insulated. Pair twisted. HR PVC sheathed overall.



HR PVC Twisted Pair with Tinned Cu Braid
One pair of **stranded** conductors. Cores HR PVC insulated. Pair twisted with tinned copper braid. HR PVC sheathed overall.

Stock Number		A20	A25	A27	A28	A29	A82	A83	A85	A75	A26		
CONDUCTORS	Number of Strands		1	1	7	13	23	7	13	23	3	7	
	Size of Strand	Diameter (mm)	0.8	1.29	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	
		Total Area (mm ²)	0.5	1.3	0.22	0.44	0.75	0.22	0.44	0.75	0.22	0.22	
		Approx. Gauge	SWG	21	18	36	36	36	36	36	28	36	
			AWG	20	16	32	32	32	32	32	28	32	
	Insulation		Heat Resistant PVC		Heat Resistant PVC		Heat Resistant PVC		Heat Resistant PVC		Heat Resistant PVC		
PAIRS	Number of Pairs		1		1		1		1		1		
	Laid Flat or Twisted		Twisted		Twisted		Twisted		Twisted		Twisted		
	Screen*		Yes		Yes		No		No		Yes		
OVERALL	Insulation		Heat Resistant PVC		Heat Resistant PVC		Heat Resistant PVC		Heat Resistant PVC		Heat Resistant PVC		
	Insulation Rating (°C)	Continuous	-30 to +105		-30 to +105		-30 to +105		-30 to +105		-30 to +105		
		Short Term	—		—		—		—		—		
	Colour Coding		Yes		Yes		Yes		Yes		Yes		
	Physical Properties	Abrasion Resistance		Good		Good		Good		Good		Good	
		Moisture Resistance		Very Good		Very Good		Very Good		Very Good		Very Good	
		Typical Weight (Kg/100m) (excluding reel)		4	7	3	4	4	2	3	4	3	3
	Diameter under Armour (mm)		—		—		—		—		—		
	Diameter over Armour (mm)		—		—		—		—		—		
	Overall Diameter [†] (mm)		6	7	4	5	6	4	5	6	4	4	
Notes			Round section. Rejects electromagnetic and electrostatic interference.		Round section. Rejects electromagnetic and electrostatic interference.		Round section. Rejects electromagnetic interference.			Round section. Rejects electromagnetic and electrostatic interference.			

* 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.

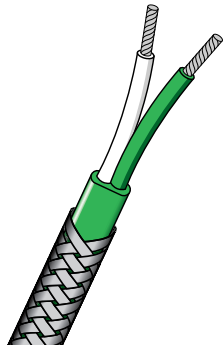
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)							Order Code - Example		
IEC 60584-3							Stock No.	Thermocouple Type	Colour Code
							A27	- KX	- IEC
ANSI MC96.1							These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.		
							These cables are normally available from us for immediate delivery from stock to IEC 60584-3 colour coding.		

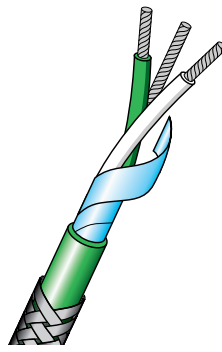
HR PVC Insulated Single Pair Thermocouple Cable

Stainless Steel Braided Heat Resistant PVC Insulated Cables -30°C to +105°C

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -30°C to +105°C
- The grade of PVC used on these cables is to BS7655:Part 4 Section 4.2 Type 5/UL Style 105°C rated (15,000 hours at 105°C)
- Stainless Steel braided for mechanical protection
- Multipair cables are also available, please contact us for details



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



Stainless Steel Braided HR PVC Twisted with Screen
One pair of **stranded** conductors. HR PVC insulated. Pair twisted, screened with Mylar Al tape and drain wire. HR PVC sheathed. Stainless steel braided overall.

Stock Number		A30/SSB	A27/SSB
CONDUCTORS	Number of Strands	7	7
	Diameter (mm)	0.2	0.2
	Total Area (mm ²)	0.22	0.22
	Approx. Gauge	SWG	36
		AWG	32
	Insulation	Heat Resistant PVC	Heat Resistant PVC
PAIRS	Number of Pairs	1	1
	Laid Flat or Twisted	Laid Flat	Twisted
	Screen*	No	Yes
OVERALL	Insulation	Heat Resistant PVC	Heat Resistant PVC
	Insulation Rating (°C)	Continuous	-30 to +105
		Short Term	—
	Colour Coding	Yes	Yes
	Physical Properties	Abrasion Resistance	Very Good
		Moisture Resistance	Very Good
		Typical Weight (Kg/100m) (excluding reel)	2
	Diameter under Armour (mm)	—	—
	Diameter over Armour (mm)	—	—
	Overall Diameter† (mm)	4.5	4.5
Notes		Oval section. Good general purpose construction.	Round section. Rejects electromagnetic and electrostatic interference.

* 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.

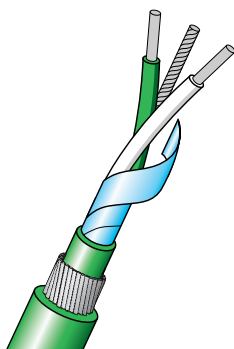
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example		
IEC 60584-3		Stock No.	Thermocouple Type	Colour Code
		A30/SSB	- KX	- IEC
ANSI MC96.1		These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.		
		These cables are normally available from us for immediate delivery from stock to IEC 60584-3 colour coding.		

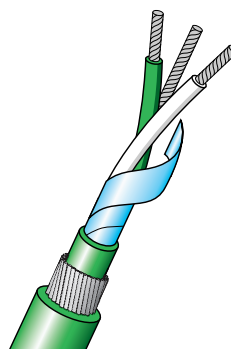
HR PVC Insulated Single Pair Thermocouple Cable

Stainless Steel Armoured Heat Resistant PVC Insulated Cables -30°C to +105°C

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -30°C to +105°C
- The grade of PVC used on these cables is to BS7655:Part 4 Section 4.2 Type 5/UL Style 105°C rated (15,000 hours at 105°C)
- Stainless Steel armoured for mechanical strength
- Multipair cables are also available, please contact us for details



HR PVC Twisted Pair with Armour
One pair of **solid** conductors. Cores HR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. HR PVC bedded, steel wire armoured and HR PVC sheathed.











HR PVC Twisted Pair with Armour
One pair of **stranded** conductors. Cores HR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. HR PVC bedded, steel wire armoured and HR PVC sheathed.

Stock Number		A90	A95
CONDUCTORS	Number of Strands	1	23
	Diameter (mm)	1.29	0.2
	Total Area (mm ²)	1.3	0.75
	Approx. Gauge	18	36
		16	32
	Insulation	Heat Resistant PVC	Heat Resistant PVC
PAIRS	Number of Pairs	1	1
	Laid Flat or Twisted	Twisted	Twisted
	Screen*	Yes	Yes
OVERALL	Insulation	Heat Resistant PVC	Heat Resistant PVC
	Insulation Rating (°C)	Continuous	-30 to +105
		Short Term	—
	Colour Coding	Yes	Yes
	Physical Properties	Abrasion Resistance	Good
		Moisture Resistance	Very Good
		Typical Weight (Kg/100m) (excluding reel)	30
	Diameter under Armour (mm)	7	6
	Diameter over Armour (mm)	9	8
Overall Diameter† (mm)		12	11
Notes		Round section. Rejects electromagnetic and electrostatic interference. Armoured for mechanical strength.	Round section. Rejects electromagnetic and electrostatic interference. Armoured for mechanical strength.

* 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.

Colour Codes available (other colour codes available on request)		Order Code - Example		
IEC 60584-3		Stock No.	Thermocouple Type	Colour Code
		A90	- KX	- IEC
ANSI MC96.1		These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.		
				
		These cables are normally available from us for immediate delivery from stock to IEC 60584-3 colour coding.		
				
				
				



**PO Box 130
Uxbridge
UB8 2YS
United Kingdom
Tel: 01895 252222
International: +44 1895 252222
Email: info@tc.co.uk
Web: www.tc.co.uk**

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Issue Number: 0919

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