

### Heat Resistant PVC Insulated Thermocouple Cables -Single Pairs

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

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Flame Retardant PVC cables also available - request our separate datasheet

### TC Ltd for Temperature Sensing, Measurement and Control

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#### 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

CONDUCTORS

**OVERALL** 

HR PVC 'Ripcord' One pair of solid conductors. Cores HR PVC insulated. Pair

laid flat and welded together in a 'ripcord' construction.

Stock Number A10 Solid **Conductor Style** No. of Strands / Strand Diameter (mm) 1/0.5 Total Area (mm<sup>2</sup>) 0.2 Total AWG (S = Stranded) 24 Insulation Heat Resistant PVC Number of Pairs PAIRS 1 Laid Flat or Twisted Laid Flat Screen No Heat Resistant PVC Insulation -30 to +105 Continuous Insulation Rating (°C)

Short Term

Abrasion Resistance

**Moisture Resistance** 

Typical Weight (Kg/100m)

**Colour Coding** 

Physical

Properties

Diameter under Armour (mm) Diameter over Armour (mm) Overall Diameter<sup>†</sup> (mm)

One pa conduc	C Twisted Pair ir of stranded tors. Cores HR PVC ed. Pair twisted.
	A80
	Stranded
	13/0.2
	0.44
	21S
Hea	t Resistant PVC
	1
	Twisted
	No
Hea	t Resistant PVC
	-30 to +105
	_
	Yes
	Good
	Very Good
	2
	_
	_
	4

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

Notes

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.

Yes

Good

Very Good

1

2x3 "Figure of eight" or "bell

wire" type

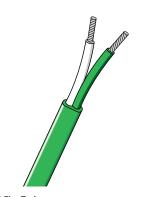
Colour Codes available (other colour codes available on request)			Order Code - Example							
60584-3	to to to to to		Stock No.	Thermocouple Type	Colour Code					
IEC (	кх	ксв	тх	JX	NX	RCA/SCA	EX	A10	- KX -	IEC
ANSI MC96.1	KX	JX	TX	» NX	ex	SX	RX	TX, NX, EX, RCA or are available on req	ailable for Thermocouple SCA. Other less popular ti uest. rmally available from us to to IEC 60584-3 colour cod	for immediate

#### 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
s	Conductor Style			Solid				Stra	nded		
CONDUCTORS	No. of Strands / S	trand Diameter (mm)	1/0.5	1/0.8	1/1.29	7/0.2	13/0.2	23/0.2	32/0.2	40/0.2	3/0.91
DNC	Total Area (mm <sup>2</sup> )		0.2	0.5	1.3	0.22	0.44	0.75	1.0	1.3	1.95
DND	Total AWG (S = S	tranded)	24	20	16	24S	21S	18S	17S	16S	15S
3	Insulation		Hea	t Resistant	PVC		ŀ	leat Resi	istant PV	С	
6	Number of Pairs			1					1		
PAIRS	Laid Flat or Twist	ed	Laid Flat					Laid	l Flat		
P	Screen			No		No					
	Insulation	Heat Resistant PVC Heat Resistant PVC			С						
	Insulation Continuous		-30 to +105			-30 to +105					
	Rating (°C)	Short Term			_						
	Colour Coding	Yes Yes									
DVERALL		Abrasion Resistance		Good		Good					
VEF	Physical Properties	Moisture Resistance		Very Good		Very Good					
0		Typical Weight (Kg/100m) (excluding reel)	3	4	5	2	3	4	5	6	7
	Diameter under A	rmour (mm)		_		_					
	Diameter over Ar	mour (mm)						_	_		
	Overall Diameter	<sup>†</sup> (mm)	3x5	3x5	4x6	3x4	3x5	4x6	4x6	5x7	5x8
Notes		Oval section purpose con	a. Good gener struction.	al		ion. Good g and A70 ar		oose flexibl ust.	e construct	ion.	

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

Colour	r Codes available (other colour codes available on request)	Order Code - Example			
60584-3	to to to to to	Stock No.	Thermocouple Type	Colour Code	
IEC	KX KCB TX JX NX RCA/SCA EX	A30	- KX -	IEC	
SI MC96.1	فالم في الله الله الله الله الله	TX, NX, EX, RCA or S are available on requ		thermocouple types	
ANS	KX JX TX NX EX SX RX		mally available from us DIEC 60584-3 colour coo		

#### 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



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

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

		Stock Number	A20	A25	A27	A28	A29	A82
s	Conductor Style		Solid		Stranded			
CONDUCTORS	No. of Strands / S	trand Diameter (mm)	1/0.8	1/1.29	7/0.2	13/0.2	23/0.2	7/0.2
DOC	Total Area (mm <sup>2</sup> )		0.5	1.3	0.22	0.44	0.75	0.22
	Total AWG (S = St	tranded)	20	16	24S	21S	18S	24S
ö	Insulation		Heat Resi	stant PVC	Heat	Resistan	t PVC	He
s	Number of Pairs			1		1		
PAIRS	Laid Flat or Twist	Twi	sted		Twisted			
₫.	Screen*		Ye	es		Yes		
	Insulation		Heat Resistant PVC		Heat Resistant PVC			He
	Insulation	Continuous	-30 to	-30 to +105				
	Rating (°C)	Short Term	_		—			
_	Colour Coding		Yes		Yes			
<b>3AL</b>		Abrasion Resistance	Good		Good			
OVERALI	Physical Properties	Moisture Resistance	Very Good		Very Good		d	
0		Typical Weight (Kg/100m) (excluding reel)	4	7	3	4	4	2
	Diameter under A	rmour (mm)	_		—			
	Diameter over Arr	nour (mm)	_		_			
	Overall Diameter	<sup>t</sup> (mm)	6	7	4	5	6	4
		Notes	Round section. electromagnetic electrostatic int	and	electroma	ction. Rejec agnetic and atic interfer		 Round electro

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

A82	A83	A85			
	Stranded	I			
7/0.2	13/0.2	23/0.2			
0.22	0.44	0.75			
24S	21S	18S			
Heat	Resistan	t PVC			
	1				
	Twisted				
	No				
Heat	Resistan	t PVC			
-	30 to +10	5			
	Yes				
	Good				
١	/ery Good	b			
2	3	4			
	—				
	—				
4	5	6			
Round section. Rejects electromagnetic interference.					



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.

A75	A26				
Stranded					
3/0.3	7/0.2				
0.21	0.22				
24S	24S				
Heat Resi	stant PVC				
1	l				
Twi	sted				
Ye	es				
Heat Resi	stant PVC				
-30 to	+105				
	_				
Ye	es				
Go	od				
Very	Good				
3	3				
	_				
	_				
4 4					
Round section. Rejects electromagnetic and electrostatic interference.					

\* Aluminised Mylar<sup>®</sup> 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.

Coloui	Codes available (other colour codes available on request)	Order Code - Example			
60584-3			Thermocouple Type	Colour Code	
IEC	KX KCB TX JX NX RCA/SCA EX	A27	- KX -	IEC	
ANSI MC96.1	خطی خطی خطی خطی خطی خطی	TX, NX, EX, RCA or S are available on req These cables are no	rmally available from us	thermocouple types	
A	KX JX TX NX EX SX RX	delivery from stock t	to IEC 60584-3 colour cod	ding.	

**Stainless Steel Braided HR** 

One pair of stranded conductors.

HR PVC insulated. Pair twisted,

screened with Mylar AI tape and drain wire. HR PVC sheathed.

Stainless steel braided overall.

electrostatic

**PVC Twisted with Screen** 

#### 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.

		Stock Number	A30/SSB	A27/SSB
s	Conductor Style		Stranded	Stranded
CONDUCTORS	No. of Strands /	Strand Diameter (mm)	7/0.2	7/0.2
.ONC	Total Area (mm <sup>2</sup>	)	0.22	0.22
OND	Total AWG (S =	Stranded)	24S	24S
5	Insulation		Heat Resistant PVC	Heat Resistant PVC
s	Number of Pairs		1	1
PAIRS	Laid Flat or Twis	sted	Laid Flat	Twisted
9	Screen*		No	Yes
	Insulation		Heat Resistant PVC	Heat Resistant PVC
	Insulation	Continuous	-30 to +105	-30 to +105
	Rating (°C)	Short Term	_	
_	Colour Coding		Yes	Yes
DVERALL		Abrasion Resistance	Very Good	Very Good
VEF	Physical Properties	Moisture Resistance	Very Good	Very Good
0		Typical Weight (Kg/100m) (excluding reel)	2	4
	Diameter under	Armour (mm)	—	
	Diameter over Armour (mm)		—	
	Overall Diameter <sup>†</sup> (mm)		4.5	4.5
	•	Notes	Oval section. Good general purpose construction.	Round section. Rejects electromagnetic and electrosta 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. t These values are nominal and if critical to your application, please request a physical check.

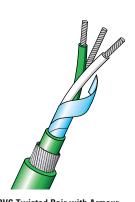
Colou	r Codes available (other colour codes available on request)	Order Code - Example			
60584-3			Thermocouple Type	Colour Code	
IEC	KX KCB TX JX NX RCA/SCA EX	A30/SSB	- KX -	IEC	
NSI MC96.1	KX JX TX NX EX SX BX	TX, NX, EX, RCA or are available on req These cables are no	railable for Thermocouple SCA. Other less popular uest. prmally available from us to IEC 60584-3 colour cor	for <b>immediate</b>	

#### 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
s	Conductor Style		Solid	Stranded
CONDUCTORS	No. of Strands / S	trand Diameter (mm)	1/1.29	23/0.2
.DNC	Total Area (mm <sup>2</sup> )		1.3	0.75
OND	Total AWG (S = S	tranded)	16	18S
ö	Insulation		Heat Resistant PVC	Heat Resistant PVC
s	Number of Pairs		1	1
PAIRS	Laid Flat or Twist	ed	Twisted	Twisted
₫.	Screen*		Yes	Yes
	Insulation		Heat Resistant PVC	Heat Resistant PVC
	Insulation	Continuous	-30 to +105	-30 to +105
	Rating (°C)	Short Term	_	
_	Colour Coding		Yes	Yes
DVERALL		Abrasion Resistance	Good	Good
VEF	Physical Properties	Moisture Resistance	Very Good	Very Good
0		Typical Weight (Kg/100m) (excluding reel)	30	22
	Diameter under A	rmour (mm)	7	6
	Diameter over Ar	mour (mm)	9	8
	Overall Diameter	<sup>†</sup> (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.

ကို		Colour Codes available (other colour codes available on request)					Order Code - Example		
60584	to to		° Lis	J×	- A	Stock No.	Thermocouple Type	Colour Code	
<u>с</u>	кх ксв	TX JX	NX RC	A/SCA	EX	A90	- KX -	IEC	
NSI MC96.1	KX JX	TX NX	EX	SX	BX	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 <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.			

### Notes



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