



Thermocouple Grade Wire Single Pair - Heat Resistant PVC Insulated



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

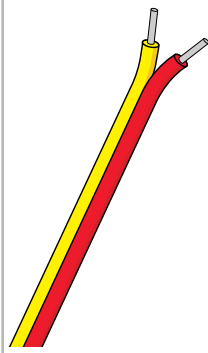
We also have a similar range of Flame Retardant PVC wire - please ask us for details

TC for Temperature Sensing, Measurement and Control

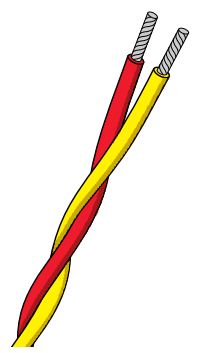
HR PVC Thermocouple Grade Wire

Heat Resistant PVC Insulated 'Ripcord' / PVC Twisted Pair -22°F to +220°F

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -22°F to +220°F
- 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 HR PVC insulated. Parallel construction and fused together in a ripcord construction.



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

		Stock Number	A10	A80	
CONDUCTORS	Wire Type (number of strands x AWG)		Solid	13x32	
	Total Wire Size - AWG (S = Stranded)		24	21S	
	Total Area (mm ²)		0.2	0.44	
	Insulation		Heat Resistant PVC	Heat Resistant PVC	
PAIRS	Number of Pairs		1	1	
	Conductor Configuration		Parallel	Twisted	
	Shielded		No	Yes	
OVERALL	Insulation		Heat Resistant PVC	Heat Resistant PVC	
	Insulation Rating (°F)	Continuous	-22 to +220	-22 to +220	
		Short Term	—	—	
	Color Coding		Yes	Yes	
	Physical Properties	Abrasion Resistance		Good	Good
		Moisture Resistance		Very Good	Very Good
		Typical Weight (lbs/1000ft) (excluding reel)		7	14
	Diameter under Armor (inches)		—	—	
	Diameter over Armor (inches)		—	—	
	Overall Diameter † (inches)		0.08" x 0.12"	0.16"	
	Notes	Parallel construction bell wire style.	Rejects electromagnetic interference.		

† 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.

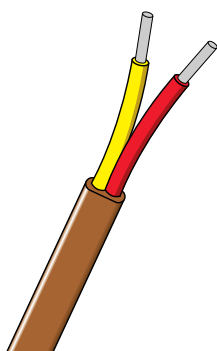
Color Codes available Thermocouple Grade to ANSI MC96.1	Order Code - Example						
<p>KK JJ TT NN EE</p>	<table border="1"> <thead> <tr> <th>Stock No.</th> <th>Thermocouple Type</th> <th>Color Code</th> </tr> </thead> <tbody> <tr> <td>A10</td> <td>- KK</td> <td>- ANSI</td> </tr> </tbody> </table>	Stock No.	Thermocouple Type	Color Code	A10	- KK	- ANSI
Stock No.	Thermocouple Type	Color Code					
A10	- KK	- ANSI					
<p>ALSO AVAILABLE as Extension Grade to ANSI MC96.1</p> <p>KX JX TX NX EX SX RX</p>	<p>Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.</p> <p>Thermocouple wire is normally available from us for immediate delivery from stock to ANSI MC96.1 colour coding.</p>						

IEC colors are available on request

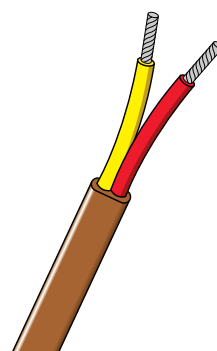
HR PVC Thermocouple Grade Wire

Heat Resistant PVC Insulated Parallel Twin Wire -22°F to +220°F

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -22°F to +220°F
- Parallel Twin construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose applications
- Multipair wire is also available, please contact us for details



HR PVC Parallel Twin
One pair of **solid** conductors HR PVC insulated. Parallel construction and HR PVC insulation overall.



HR PVC Parallel Twin
One pair of **stranded** conductors HR PVC insulated. Parallel construction with HR PVC insulation overall.

Stock Number		A13	A14	A15	A30	A40	A50	A60	A65	A70	
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	Solid	7x32	13x32	23x32	32x32	40x32	3x19	
	Total Wire Size - AWG (S = Stranded)	24	20	16	24S	21S	19S	17S	16S	14S	
	Total Area (mm ²)	0.2	0.5	1.3	0.22	0.44	0.75	1.0	1.3	1.95	
	Insulation	Heat Resistant PVC			Heat Resistant PVC						
PAIRS	Number of Pairs	1			1						
	Conductor Configuration	Parallel			Parallel						
	Shielded	No			No						
OVERALL	Insulation	Heat Resistant PVC			Heat Resistant PVC						
	Insulation Rating (°F)	Continuous	-22 to +220			-22 to +220					
		Short Term	—			—					
	Color Coding	Yes			Yes						
	Physical Properties	Abrasion Resistance	Good			Good					
		Moisture Resistance	Very Good			Very Good					
		Typical Weight (lbs/1000ft) (excluding reel)	21	28	34	14	21	28	34	41	48
	Diameter under Armor (inches)	—			—						
Diameter over Armor (inches)	—			—							
Overall Diameter [†] (inches)	0.12" x 0.20"	0.12" x 0.20"	0.16" x 0.24"	0.12" x 0.16"	0.12" x 0.2"	0.16" x 0.24"	0.16" x 0.24"	0.20" x 0.28"	0.20" x 0.31"		
Notes	Oval cross section. Good general purpose construction.			Oval cross section. Good general purpose flexible construction. A60, A65 and A70 are more heavy duty.							

[†] 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.

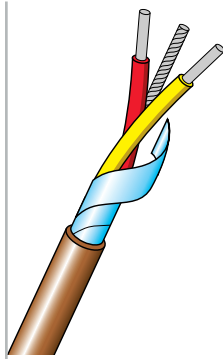
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Stock No.	Thermocouple Type	Color Code					
A30	- KK	- ANSI					
<p>ALSO AVAILABLE as Extension Grade to ANSI MC96.1</p> <p>KX JX TX NX EX SX RX</p>	<p>Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.</p> <p>Thermocouple wire is normally available from us for immediate delivery from stock to ANSI MC96.1 colour coding.</p>						

IEC colors are available on request

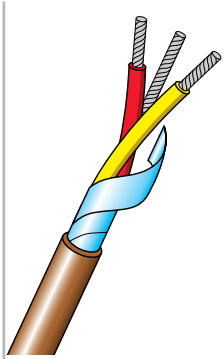
HR PVC Thermocouple Grade Wire

Heat Resistant PVC Insulated Twisted Wire -22°F to +220°F

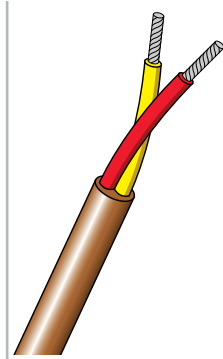
- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -22°F to +220°F
- Twisted construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose applications
- Multipair wire is also available, please contact us for details



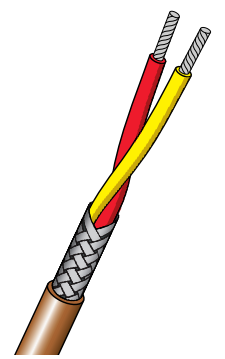
HR PVC Twisted Pair with Shield
One pair of **solid** conductors. Cores HR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. HR PVC sheathed overall.



HR PVC Twisted Pair with Shield
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 HR PVC insulated with HRPVC insulation overall.



HR PVC Twisted Pair with Tinned Copper Braid
One pair of **stranded** conductors HR PVC insulated. Pair twisted with nickel plated copper braid. HR PVC insulation overall.

Stock Number		A20	A25	A27	A28	A29	A82	A83	A85	A75	A26		
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	7x32	13x32	23x32	7x32	13x32	23x32	3x28	7x32		
	Total Wire Size - AWG (S = Stranded)	20	16	24S	21S	19S	24S	21S	19S	24S	24S		
		0.5	1.3	0.22	0.44	0.75	0.22	0.44	0.75	0.21	0.22		
	Insulation	Heat Resistant PVC			Heat Resistant PVC			Heat Resistant PVC			Heat Resistant PVC		
PAIRS	Number of Pairs	1			1			1			1		
	Conductor Configuration	Twisted			Twisted			Twisted			Twisted		
	Shielded *	Yes			Yes			No			Yes		
OVERALL	Insulation	Heat Resistant PVC			Heat Resistant PVC			Heat Resistant PVC			Heat Resistant PVC		
	Insulation Rating (°F)	Continuous	-22 to +220			-22 to +220			-22 to +220			-22 to +220	
		Short Term	—			—			—			—	
	Color Coding	Yes			Yes			Yes			Yes		
	Physical Properties	Abrasion Resistance	Good			Good			Good			Good	
		Moisture Resistance	Very Good			Very Good			Very Good			Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)	28	48	21	28	41	14	21	28	21	21	
	Diameter under Armor (inches)	—			—			—			—		
	Diameter over Armor (inches)	—			—			—			—		
Overall Diameter † (inches)	0.24"	0.28"	0.16"	0.20"	0.24"	0.16"	0.20"	0.24"	0.16"	0.16"			
Notes	Round cross section. Rejects electromagnetic and electrostatic interference.			Round cross section. Rejects electromagnetic and electrostatic interference.			Round cross section. Rejects electromagnetic interference.			Round cross section. Rejects electromagnetic and electrostatic interference.			

* 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.

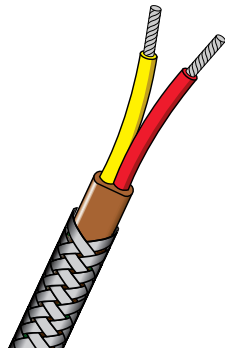
Color Codes available Thermocouple Grade to ANSI MC96.1	Order Code - Example						
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Stock No.	Thermocouple Type	Color Code					
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<p>ALSO AVAILABLE as Extension Grade to ANSI MC96.1</p> <p>KX JX TX NX EX SX RX</p>	<p>Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.</p> <p>Thermocouple wire is normally available from us for immediate delivery from stock to ANSI MC96.1 colour coding.</p>						

IEC colors are available on request

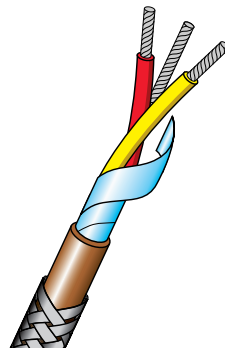
HR PVC Thermocouple Grade Wire

Stainless Steel Braided Heat Resistant PVC Insulated Wire -22°F to +220°F

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -22°F to +220°F
- Stainless Steel braided for mechanical protection
- Multipair wire is also available, please contact us for details



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

Stock Number		A30/SSB	A27/SSB	
CONDUCTORS	Wire Type (number of strands x AWG)	7x32	7x32	
	Total Wire Size - AWG (S = Stranded)	24S	24S	
	Total Area (mm ²)	0.22	0.22	
	Insulation	Heat Resistant PVC	Heat Resistant PVC	
PAIRS	Number of Pairs	1	1	
	Conductor Configuration	Parallel	Twisted	
	Shielded*	No	Yes	
OVERALL	Insulation	Heat Resistant PVC	Heat Resistant PVC	
	Insulation Rating (°F)	Continuous	-22 to +220	-22 to +220
		Short Term	—	—
	Color Coding	Yes	Yes	
	Physical Properties	Abrasion Resistance	Very Good	Very Good
		Moisture Resistance	Very Good	Very Good
		Typical Weight (lbs/1000ft) (excluding reel)	14	28
	Diameter under Armor (inches)	—	—	
	Diameter over Armor (inches)	—	—	
	Overall Diameter† (inches)	0.18"	0.16"	
Notes	Oval section. Good general purpose construction.	Round cross section. Rejects electromagnetic and electrostatic interference.		

* 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.

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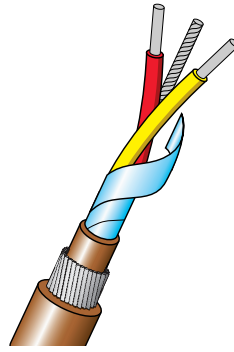
Color Codes available Thermocouple Grade to ANSI MC96.1	Order Code - Example		
<p>KK JJ TT NN EE</p>	Stock No.	Thermocouple Type	Color Code
	A30/SSB	- KK	- ANSI
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 <p>KX JX TX NX EX SX RX</p>	Thermocouple wire is available in the following types: KK, JJ, 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

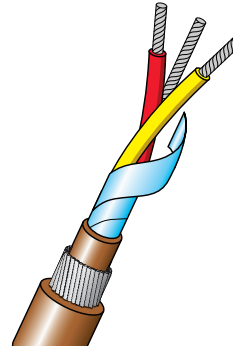
HR PVC Thermocouple Grade Wire

Stainless Steel Armored Heat Resistant PVC Insulated Wire -22°F to +220°F

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -22°F to +220°F
- Stainless Steel armored for mechanical strength
- Multipair wire is also available, please contact us for details



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



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

Stock Number		A90	A95	
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	23x32	
	Total Wire Size - AWG (S = Stranded)	16	19S	
	Total Area (mm ²)	1.3	0.75	
	Insulation	Heat Resistant PVC	Heat Resistant PVC	
PAIRS	Number of Pairs	1	1	
	Conductor Configuration	Twisted	Twisted	
	Shielded *	Yes	Yes	
OVERALL	Insulation	Heat Resistant PVC	Heat Resistant PVC	
	Insulation Rating (°F)	Continuous	-22 to +220	-22 to +220
		Short Term	—	—
	Color Coding	Yes	Yes	
	Physical Properties	Abrasion Resistance	Good	Good
		Moisture Resistance	Very Good	Very Good
		Typical Weight (Kg/100m) (excluding reel)	204	150
	Diameter under Armor (inches)	0.28"	0.24"	
	Diameter over Armor (inches)	0.35"	0.31"	
Overall Diameter† (inches)	0.47"	0.43"		
Notes	Round cross section. Rejects electromagnetic and electrostatic interference. Armored for mechanical strength.	Round cross section. Rejects electromagnetic and electrostatic interference. Armored 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.

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<p>KK JJ TT NN EE</p>	Stock No.	Thermocouple Type	Color Code
	A90	- KK	- ANSI
ALSO AVAILABLE as Extension Grade to ANSI MC96.1 <p>KX JX TX NX EX SX RX</p>	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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Issue Number: 0321

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