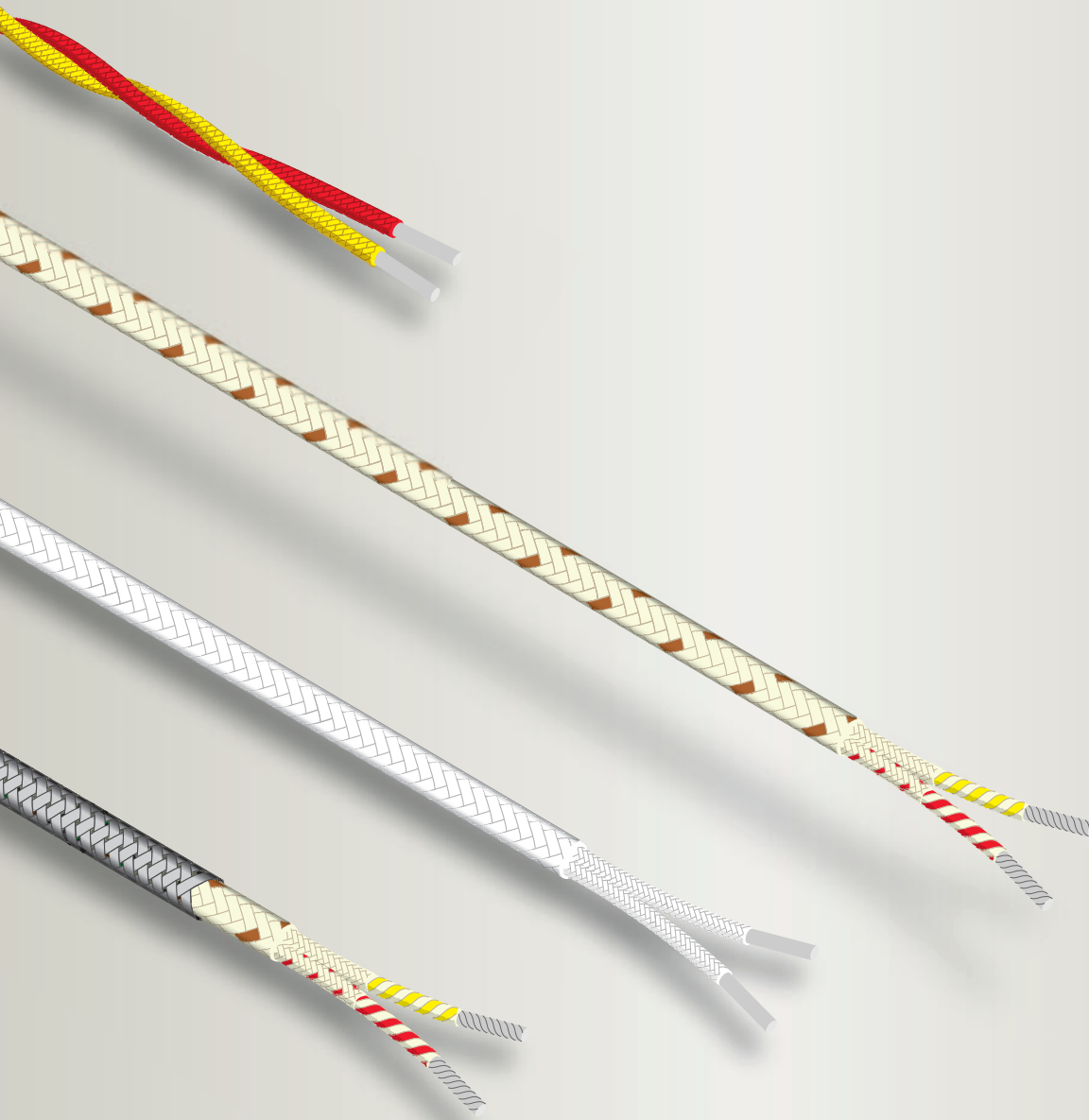




Thermocouple Grade Wire - Single Pair Fiberglass and Ceramic Fiber Insulated



**A range of Fiberglass and Ceramic Fiber
insulated single pair Thermocouple
Grade Wire available from stock for
immediate delivery**

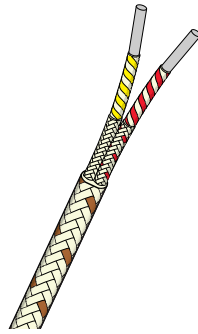
Fiberglass Thermocouple Grade Wire

Fiberglass Insulated Parallel Construction Wire for use up to +900°F or 1475°F

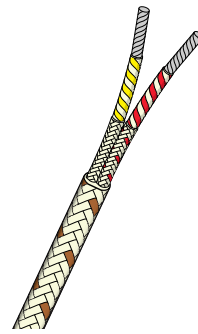
- Excellent for high temperature applications up to 900°F we also offer High Temperature Fiberglass (1475°F) and Ceramic Fiber (2190°F)
- Suitable for use at normal air ambient temperatures where there is a possibility of a hot spot which might damage lower rated wire such as PVC or PFA
- Parallel construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose high temperature applications



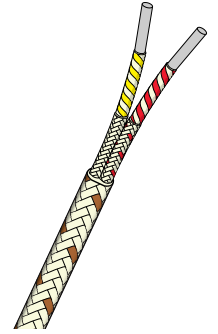
Basic Fiberglass Parallel Twin
One pair of **solid** conductors. Cores double glass fiber lapped and varnished. Parallel construction, glass fiber braided overall and varnished.



Fiberglass Parallel Twin
One pair of **solid** conductors. Cores double glass fiber lapped, braided and varnished. Parallel construction, glass fiber braided overall and varnished.



Fiberglass Parallel Twin
One pair of **stranded** conductors. Cores double glass fiber lapped, braided and varnished. Parallel construction, glass fiber braided and varnished.



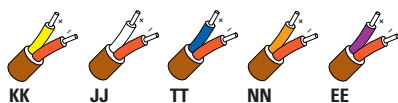
High Temperature Fiberglass Parallel Twin
One pair of **solid** conductors. Cores double HT glass fiber lapped, braided and varnished. Parallel construction, glass fiber braided and varnished.

Stock Number		C05	C09	C10	C20	C30	C40	C50	C51	C52	C53
CONDUCTORS	Wire Type (number of strands x AWG)	Solid	Solid	Solid	Solid	Solid	7x32	13x32	23x32	32x32	40x32
	Wire Size - AWG	32	28	28	24	20	24S	21S	19S	17S	16S
	Total Area (mm ²)	0.03	0.07	0.07	0.2	0.5	0.22	0.44	0.75	1.0	1.3
	Insulation	Fiberglass		Fiberglass			Fiberglass				
PAIRS	Number of Pairs	1		1			1				
	Conductor Configuration	Parallel		Parallel			Parallel				
	Shielded	No		No			No				
OVERALL	Insulation	Fiberglass		Fiberglass			Fiberglass				
	Insulation Rating (°F) (°F)	Continuous		+900			+900				
		Short Term		+1000			+480				
	Color Coding	Yes		Yes			Yes				
	Physical Properties	Abrasion Resistance		Fair			Fair				
		Moisture Resistance		None			None				
		Typical Weight (lbs/1000ft) (excluding reel)		7	7	14	7	14	21	28	28
	Diameter under Armor (inches)	—		—			—				
	Diameter over Armor (inches)	—		—			—				
	Overall Diameter [†] (inches)	0.04"x0.08"	0.04"x0.08"	0.04"x0.08"	0.08"x0.12"	0.08"x0.12"	0.08"x0.12"	0.08"x0.12"	0.12"x0.16"	0.12"x0.16"	0.16"x0.20"
Notes		Above 180°C the integrity of the wire is maintained to the upper insulation rating limit provided the wire is not flexed particularly when cold.									

[†] 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



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
C40	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

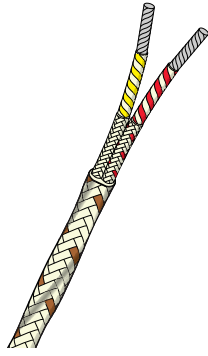
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

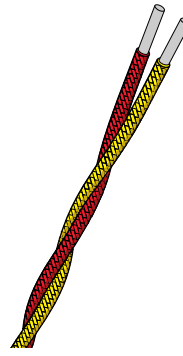
Fiberglass Thermocouple Grade Wire

Fiberglass Insulated Twisted Wire for use up to +900°F or 1475°F

- Excellent for high temperature applications up to 900°F we also offer High Temperature Fiberglass (1475°F) and Ceramic Fiber (2190°F)
- Suitable for use at normal air ambient temperatures where there is a possibility of a hot spot which might damage lower rated wire such as PVC or PFA
- Twisted construction with either solid or stranded conductors in a range of sizes. Ideal for general purpose high temperature applications or simple thermocouple sensors



Fiberglass Twisted Pair
One pair of **stranded** conductors. Cores double glass fiber lapped, braided and varnished. Pair twisted, glass fiber braided overall and varnished.



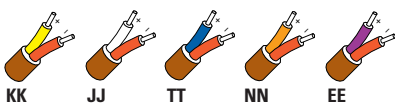
High Temperature Fiberglass Insulated Twisted Pair
One pair of solid conductors. Each conductor HT glass fiber braided. Pair varnished and twisted.

Stock Number		C37	C38	C27
CONDUCTORS	Wire Type (number of strands x AWG)	7x32	13x32	Solid
	Wire Size - AWG	24S	21S	21
	Total Area (mm ²)	0.22	0.44	0.4
	Insulation	Fiberglass		High Temperature Fiberglass
PAIRS	Number of Pairs	1		1
	Conductor Configuration	Twisted		Twisted
	Shielded	No		No
OVERALL	Insulation		Fiberglass	—
	Insulation Rating (°F)	Continuous	+900	+1475
		Short Term	+1000	—
	Color Coding		Yes	Yes
	Physical Properties	Abrasion Resistance		Fair
		Moisture Resistance		None
		Typical Weight (lbs/1000ft) (excluding reel)	7	14
	Diameter under Armor (inches)		—	—
	Diameter over Armor (inches)		—	—
	Overall Diameter† (inches)		0.12"	0.16"
Notes		Rejects electromagnetic interference. Above 180°C the integrity of the wire is maintained to the upper insulation rating limit provided the wire is not flexed particularly when cold.		Rejects electromagnetic interference. Above 180°C the integrity of the wire is maintained to the upper insulation rating limit provided the wire is not flexed particularly when cold.

† 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



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
C27	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

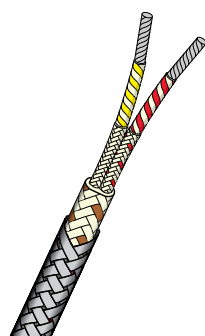
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

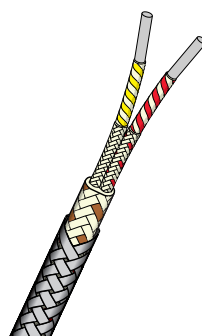
Fiberglass Thermocouple Grade Wire

Stainless Steel Braided Fiberglass Insulated Parallel Construction Wire for use up to +900°F or 1475°F

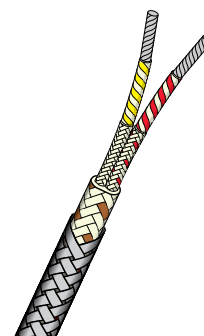
- Excellent for high temperature applications up to 900°F we also offer High Temperature Fiberglass (1475°F) and Ceramic Fiber (2190°F)
- Suitable for use at normal air ambient temperatures where there is a possibility of a hot spot which might damage lower rated wire such as PVC or PFA
- Stainless Steel braided for mechanical protection



Fiberglass Parallel Twin with Stainless Steel Braid
One pair of **stranded** conductors. Cores double glass fiber lapped, braided and varnished. Parallel construction, glass fiber braided and varnished. Stainless steel wire braided overall.



High Temperature Fiberglass Parallel Twin with Stainless Steel Braid
One pair of **solid** conductors. Cores double HT glass fiber lapped, braided and varnished. Parallel construction, HT glass fiber braided & varnished. Stainless steel wire braided overall.



High Temperature Fiberglass Parallel Twin with Stainless Steel Braid
One pair of **stranded** conductors. Cores double HT glass fiber lapped, braided and varnished. Parallel construction, HT glass fiber braided & varnished. Stainless steel wire braided overall.

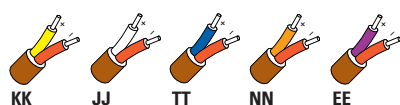
Stock Number		C60	C65	C66	C67	C68	C78	C79	C71	C80	
CONDUCTORS	Wire Type (number of strands x AWG)	7x32	13x32	23x32	32x32	40x32	Solid	Solid	Solid	13x32	
	Wire Size - AWG	24S	21S	19S	17S	16S	24	20	16	21S	
	Total Area (mm ²)	0.22	0.44	0.75	1.0	1.3	0.2	0.5	1.3	0.44	
	Insulation	Fiberglass					High Temperature Fiberglass			High Temperature Fiberglass	
PAIRS	Number of Pairs	1					1			1	
	Conductor Configuration	Parallel					Parallel			Parallel	
	Shielded*	Yes					Yes			Yes	
OVERALL	Insulation	Fiberglass					High Temperature Fiberglass			High Temperature Fiberglass	
	Insulation Rating (°F)	Continuous	+900					+1475			+1475
		Short Term	+1000					—			—
	Color Coding	Yes					Yes			Yes	
	Physical Properties	Abrasion Resistance	Good					Good			Good
		Moisture Resistance	None					None			None
		Typical Weight (lbs/1000ft) (excluding reel)	14	21	28	34	34	14	21	34	14
	Diameter under Armor (inches)	—					—			—	
	Diameter over Armor (inches)	—					—			—	
Overall Diameter [†] (inches)	0.12"x 0.16"	0.12"x 0.16"	0.16"x 0.20"	0.16"x 0.20"	0.16"x 0.24"	0.12"x0.16"	0.12"x0.16"	0.20"x0.28"	0.12"x0.16"		
Notes		Above 180°C the integrity of the wire is maintained to the upper insulation rating limit provided the wire is not flexed particularly when cold.					Above 180°C the integrity of the wire is maintained to the upper insulation rating limit provided the wire is not flexed particularly when cold.			Above 180°C the integrity of the wire is maintained to the upper insulation rating limit provided the wire is not flexed particularly when cold.	

* 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



ALSO AVAILABLE as Extension Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
C60	- KK	- ANSI

Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.

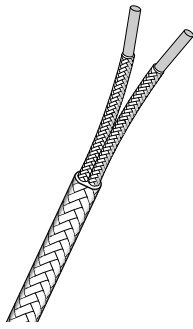
Thermocouple wire is normally available from us for immediate delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

Ceramic Fiber Thermocouple Grade Wire

Ceramic Fiber Insulated Parallel Construction Wire for use up to +2190°F

- Ceramic fiber is excellent for very high temperature applications up to 2190°F
- Suitable for use at high air ambient temperatures where Fiberglass wire are not suitable
- Parallel construction



Ceramic Fiber Parallel Twin

One pair of **solid** conductors. Cores ceramic fiber braided and impregnated with a ceramic binder. Parallel construction, ceramic fiber braided overall, impregnated with a ceramic binder.

Stock Number		D20
CONDUCTORS	Wire Type (number of strands x AWG)	Solid
	Wire Size - AWG	20
	Total Area (mm ²)	0.5
	Insulation	Ceramic Fiber
PAIRS	Number of Pairs	1
	Conductor Configuration	Parallel
	Shielded	No
OVERALL	Insulation	Ceramic Fiber
	Insulation Rating (°F)	Continuous
		Short Term
	Color Coding	No
	Physical Properties	Abrasion Resistance
		Moisture Resistance
		Typical Weight (lbs/1000ft) (excluding reel)
	Diameter under Armor (inches)	—
	Diameter over Armor (inches)	—
	Overall Diameter [†] (inches)	0.08"x0.12"
Notes		Outstanding high temperature performance. Requires free circulation of air. Do not use in a vacuum.

[†] 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.

Order Code - Example	
Stock No.	Thermocouple Type
D20	- KK
Thermocouple wire is available in the following types: KK, JJ, TT, NN or EE. Other less popular thermocouple types are available on request.	



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