



Thermocouple Extension Grade Wire - Single and Multipairs XLPE, XLPE/MICA, Silicone Rubber and Kapton® Insulated

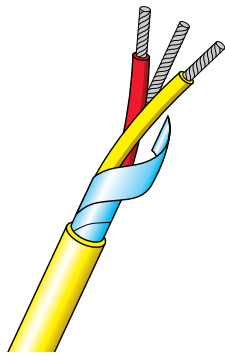


**A range of XLPE (including Intrinsically Safe),
XLPE/MICA, Silicone Rubber and Kapton®
insulated single and multipair Thermocouple
Extension Grade Wire available from stock**

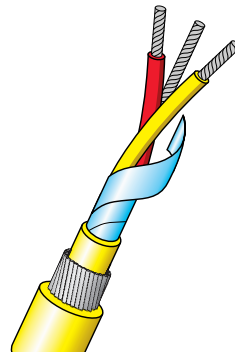
XLPE Thermocouple Extension Grade Wire

XLPE Insulated Twisted with Shield (Low Smoke and Fume) -22°F to +158°F

- Incorporates XLPE (Cross Linked Polyethylene) compound on the cores and Low Smoke and Fume (LSF) material on the bedding and/or outer sheath
- These wire meet the requirements of IEC 60332.3 Category A covering tests on wire in fire conditions
- Ideal for situations where there is a risk of fire and the emission of smoke and gases could threaten life and property
- The acidic gas evolved during combustion is less than 0.5% in accordance with IEC 60754.1: 1996



XLPE insulated, Twisted with Shield (LSF)
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. LSF sheathed overall.



XLPE insulated, Twisted with Shield and Armor (LSF)
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. LSF bedded. Steel wire armored and LSF sheathed.

Stock Number		G29	G31	G94	G95
CONDUCTORS	Wire Type (number of strands x AWG)	16x32	24x32	16x32	24x32
	Total Wire Size - AWG (S = Stranded)	20S	19S	20S	19S
	Total Area (mm ²)	0.5	0.75	0.5	0.75
	Insulation	XLPE		XLPE	
PAIRS	Number of Pairs	1		1	
	Conductor Configuration	Twisted		Twisted	
	Shielded*	Yes		Yes	
OVERALL	Insulation	LSF		LSF	
	Insulation Rating (°F)	Continuous		-22 to +158	
		Short Term		+190	
	Color Coding	Yes		Yes	
	Physical Properties	Abrasion Resistance		Good	
		Moisture Resistance		Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)		Very Good	
	Diameter under Armor (inches)	—		0.22"	0.24"
	Diameter over Armor (inches)	—		0.31"	0.32"
	Overall Diameter† (inches)	0.24"	0.26"	0.41"	0.44"
Notes		Excellent for fire risk areas. Free of halogens. Round section. Rejects electromagnetic and electrostatic interference.		Excellent for fire risk areas. Free of halogens. Round 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.

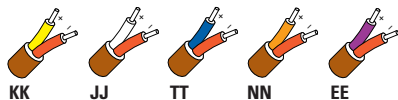
† These values are nominal and if critical to your application, please request a physical check.

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 Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
G29	- KX -	ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

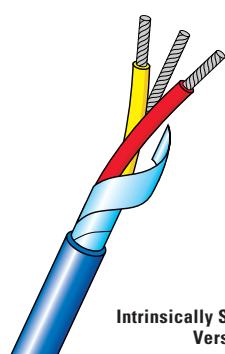
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

XLPE Thermocouple Extension Grade Wire

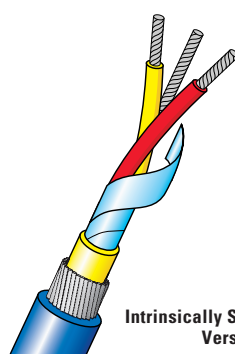
Intrinsically Safe XLPE Insulated Twisted with Shield (Low Smoke and Fume) -22°F to +158°F

- Incorporates XLPE (Cross Linked Polyethylene) compound on the cores and Low Smoke and Fume (LSF) material on the bedding and/or outer sheath
- These wire meet the requirements of IEC 60332.3 Category A covering tests on wire in fire conditions
- Ideal for situations where there is a risk of fire and the emission of smoke and gases could threaten life and property
- The acidic gas evolved during combustion is less than 0.5% in accordance with IEC 60754.1: 1996



Intrinsically Safe Version

XLPE insulated, Twisted with Shield (LSF)
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. LSF sheathed overall.



Intrinsically Safe Version

XLPE insulated, Twisted with Shield and Armor (LSF)
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. LSF bedded. Steel wire armored and LSF sheathed.

Stock Number		GS29	GS31	GS94	GS95
CONDUCTORS	Wire Type (number of strands x AWG)	16x32	24x32	16x32	24x32
	Total Wire Size - AWG (S = Stranded)	20S	19S	20S	19S
	Total Area (mm ²)	0.5	0.75	0.5	0.75
	Insulation	XLPE		XLPE	
PAIRS	Number of Pairs	1		1	
	Conductor Configuration	Twisted		Twisted	
	Shielded*	Yes		Yes	
OVERALL	Insulation	LSF		LSF	
	Insulation Rating (°F)	Continuous		-22 to +158	
		Short Term		+190	
	Color Coding	Yes		Yes	
	Physical Properties	Abrasion Resistance		Good	
		Moisture Resistance		Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)		Very Good	
	Diameter under Armor (inches)	—		0.22"	0.30"
	Diameter over Armor (inches)	—		0.24"	0.32"
	Overall Diameter† (inches)	0.24"	0.26"	0.41"	0.44"
Notes		Excellent for fire risk areas. Free of halogens. Round section. Rejects electromagnetic and electrostatic interference.		Excellent for fire risk areas. Free of halogens. Round 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.

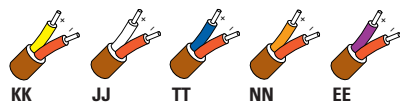
† These values are nominal and if critical to your application, please request a physical check.

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 Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
GS29	- KX -	ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

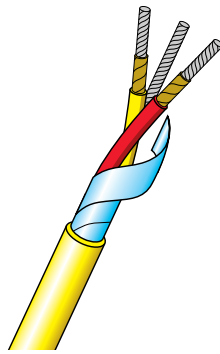
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

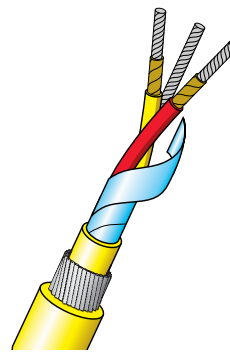
MICA/XLPE Thermocouple Extension Grade Wire

Fire Resistant MICA/XLPE Low Smoke and Fume -22°F to +158°F

- Resistant to a temperature of 750°C for at least three hours in accordance with the flame test requirements of IEC 60331
- Essential for situations where it is of strategic importance to ensure that the cable continues to function during a major crisis involving fire
- The cable incorporates a high temperature rated Mica glass tape with a XLPE (Cross Linked Polyethylene) insulation on the cores and Low Smoke and Fume material on the bedding and/or outer sheath
- Sheathing materials are Halogen free



Mica Taped XLPE insulated, Twisted with Shield (LSF)
One pair of **stranded** conductors Mica taped and XLPE insulated. Pair twisted. Shielded with Mylar® aluminium tape and drainwire. LSF sheathed.



Mica Taped XLPE insulated, Twisted with Shield & Armor (LSF)
One pair of **stranded** conductors Mica taped and XLPE insulated. Pair twisted. shielded with Mylar® aluminium tape and drain wire. LSF bedded. Steel wire armored and LSF sheathed.

Stock Number		G98	G97	G99	G96
CONDUCTORS	Wire Type (number of strands x AWG)	16x32	24x32	16x32	24x32
	Total Wire Size - AWG (S = Stranded)	20S	19S	20S	19S
		0.5	0.75	0.5	0.75
	Insulation	MICA and XLPE		MICA and XLPE	
PAIRS	Number of Pairs	1		1	
	Conductor Configuration	Twisted		Twisted	
	Shielded*	Yes		Yes	
OVERALL	Insulation	LSF		LSF	
	Insulation Rating (°F)	Continuous		-22 to +158	
		Short Term		+190	
	Color Coding	Yes		Yes	
	Physical Properties	Abrasion Resistance		Good	
		Moisture Resistance		Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)		Very Good	
	Diameter under Armor (inches)	—		0.28"	0.34"
	Diameter over Armor (inches)	—		0.35"	0.41"
	Overall Diameter† (inches)	0.28"		0.47"	0.54"
Notes		Excellent for signal continuity in the event of a fire. Free of halogens. Round section. Rejects electromagnetic and electrostatic interference.		Excellent for signal continuity in the event of a fire. Free of halogens. Round 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.

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 Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
G98	- KX	- ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

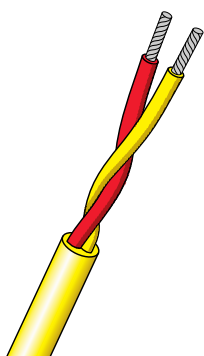
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

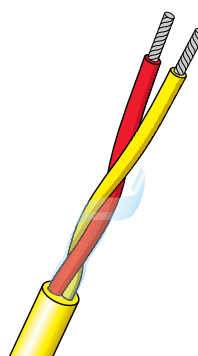
Silicone Rubber Thermocouple Extension Grade Wire

Flame Retardant Silicone Rubber Insulated Single Pairs -40°F to +390°F

- Excellent properties for the reduced propagation of flame by incorporation of flame retardant Silicone Rubber compounds
- Suitable for situations where there is a risk of fire. (See also our range of XLPE/LSF wire shown on page 4)
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other wire to become inflexible and brittle. These wire also meet the requirements of IEC 60332.1 covering tests on wire under fire conditions



Flame Retardant Silicone Rubber insulated, Twisted Pair
One pair of **stranded** conductors. Cores PFA insulated. Silicone Rubber sheathed.



Flame Retardant Silicone Rubber insulated, Twisted Pair with Mylar® Tape
One pair of **stranded** conductors. Cores Silicone Rubber insulated. Pair twisted and Mylar® taped. Silicone Rubber sheathed.

Stock Number			SR30	SR31	SR73	SR77	SR80	
CONDUCTORS	Wire Type (number of strands x AWG)		7x32	7x32	7x28	19x28	16x32	
	Total Wire Size - AWG (S = Stranded)		24S	24S	20S	16S	20S	
			0.22	0.22	0.49	1.34	0.5	
	Insulation		PFA	FR Silicone Rubber	Flame Retardant Silicone Rubber			
PAIRS	Number of Pairs		1		1			
	Conductor Configuration		Twisted		Twisted			
	Shielded*		No		No			
OVERALL	Insulation		Flame Retardant Silicone Rubber		Flame Retardant Silicone Rubber			
	Insulation Rating (°F)	Continuous	-40 to +390		-40 to +390			
		Short Term	-50 to +480		-50 to +480			
	Color Coding		Yes		Yes			
	Physical Properties	Abrasion Resistance		Good		Good		
		Moisture Resistance		Very Good		Very Good		
		Typical Weight (lbs/1000ft) (excluding reel)		7	28	28	55	31
	Diameter under Armor (inches)		—		—			
	Diameter over Armor (inches)		—		—			
	Overall Diameter [†] (inches)		0.12”	0.18”	0.28”	0.33”	0.24”	
Notes			Flame retardant. Round section. Rejects electromagnetic interference.		Flame retardant. Round section. 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.

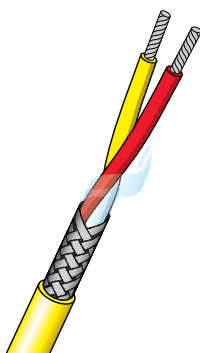
Color Codes available Extension Grade to ANSI MC96.1	Order Code - Example		
	Stock No.	Thermocouple Type	Color Code
	SR80	- KX	- ANSI
ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1 	Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple 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

Silicone Rubber Thermocouple Extension Grade Wire

Flame Retardant Silicone Rubber Insulated Single Pairs -40°F to +390°F

- Excellent properties for the reduced propagation of flame by incorporation of flame retardant Silicone Rubber compounds
- Suitable for situations where there is a risk of fire. (See also our range of XLPE/LSF wire shown on page 4)
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other wire to become inflexible and brittle. These wire also meet the requirements of IEC 60332.1 covering tests on wire under fire conditions



Flame Retardant Silicone Rubber, Twisted Pair with Nickel Plated Copper Braid
One pair of stranded conductors. Cores Silicone Rubber insulated. Pair twisted and Mylar® taped with nickel plated copper braid. Silicone Rubber sheathed.

Stock Number			SR35	SR74	SR76	SR78	SR79	
CONDUCTORS	Wire Type (number of strands x AWG)		7x32	7x28	16x32	19x28	48x32	
	Total Wire Size - AWG (S = Stranded)		24S	20S	20S	16S	15S	
	Total Area (mm ²)		0.22	0.49	0.5	1.34	1.5	
	Insulation		Flame Retardant Silicone Rubber					
PAIRS	Number of Pairs		1					
	Conductor Configuration		Twisted					
	Shielded*		Yes					
OVERALL	Insulation		Flame Retardant Silicone Rubber					
	Insulation Rating (°F)	Continuous	-40 to +390					
		Short Term	-50 to +480					
	Color Coding		Yes					
	Physical Properties	Abrasion Resistance		Good				
		Moisture Resistance		Very Good				
		Typical Weight (lbs/1000ft) (excluding reel)		21	43	68	68	75
	Diameter under Armor (inches)		—					
	Diameter over Armor (inches)		—					
Overall Diameter [†] (inches)								
Notes			Flame retardant. Round section. Rejects electromagnetic interference.					

* 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 Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
SR76	- KX	- ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

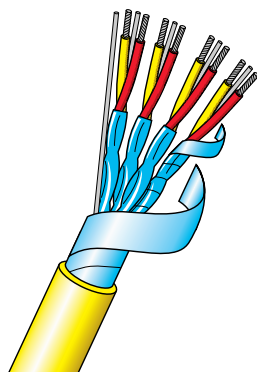
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

Silicone Rubber Thermocouple Extension Grade Wire

Non Armored Flame Retardant Silicone Rubber Insulated Multipairs -40°F to +390°F

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 20 AWG conductors with an individual and collective shield. Cores, bedding and overall sheath in flame retardant Silicone Rubber
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other wire to become inflexible and brittle. These wire also meet the requirements of IEC 60332.1 covering tests on wire under fire conditions



Non Armored Flame Retardant Silicone Rubber Multipair

Multipairs of stranded 20 AWG conductors FR Silicone Rubber insulated. Pairs numbered, twisted and individually shielded with Mylar® aluminium tape with a drainwire. Pairs laid out, overall shielded with Mylar® aluminium tape with a drainwire. Flame Retardant Silicone Rubber sheathed.

Stock Number		SM3502	SM3504	SM3506	
CONDUCTORS	Wire Type (number of strands x AWG)		16x32	16x32	
	Total Wire Size - AWG (S = Stranded)		20S	20S	
	Total Area (mm ²)		0.5	0.5	
	Insulation		Flame Retardant Silicone Rubber		
PAIRS	Number of Pairs		2	4	6
	Conductor Configuration		Twisted		
	Shielded*		Yes - Individually Shielded Pairs		
OVERALL	Insulation		Flame Retardant Silicone Rubber		
	Insulation Rating (°F)	Continuous	-40 to +390		
		Short Term	-50 to +480		
	Color Coding		Yes		
	Shielded*		Yes - Collective, Overall Shield		
	Physical Properties	Abrasion Resistance		Good	
		Moisture Resistance		Very Good	
		Typical Weight (lbs/1000ft) (excluding reel)		62	89
	Diameter under Armor (inches)		—		
	Diameter over Armor (inches)		—		
Overall Diameter [†] (inches)					
Notes		Individually and collectively shielded. Flame retardant silicone rubber insulated.			

* 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 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 Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
SM3506	- KX	- ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

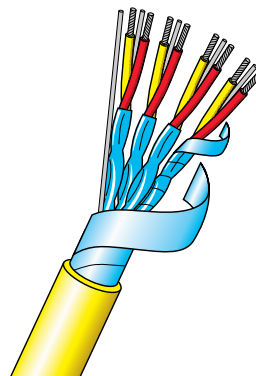
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

XLPE Thermocouple Extension Grade Wire

20 AWG Non Armored XLPE Insulated Multipairs -22°F to +158°F

- These cables meet the requirements of BS4066 Part 3/IEC 60332.3 Category A covering tests on cables under fire conditions and are ideal for situations where there is a risk of fire and the emission of smoke and gases could threaten life and property
- The sheathing materials used are Halogen free
- The acidic gas which is evolved during combustion is less than 0.5% in accordance with BS6425 Pt 1 and IEC 60754 Pt 1
- The Oxygen Index Value is not less than 30 in accordance with BS2782:2007 Part 1 Method 141



Non Armored XLPE Multipair

Multipairs of stranded 20 AWG dia conductors XLPE insulated.
Pairs numbered, twisted and individually shielded with Mylar® aluminium tape with a drainwire.
Pairs laid up, overall shielded with Mylar® aluminium tape with a drainwire. XLPE sheathed.

Stock Number		M4502	M4504	M4506	M4508	M4512	M4516	M4520	M4524	M4536
CONDUCTORS	Wire Type (number of strands x AWG)	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32
	Total Wire Size - AWG (S = Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S
	Total Area (mm ²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Insulation	XLPE								
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36
	Conductor Configuration	Twisted								
	Shielded*	Yes - Individually Shielded Pairs								
OVERALL	Insulation	LSF								
	Insulation Rating (°F)	Continuous								
		-22 to +158								
	Short Term									
		+190								
	Color Coding	Yes								
	Shielded*	Yes - Collective, Overall Shield								
	Physical Properties	Abrasion Resistance								
		Good								
		Moisture Resistance								
		Very Good								
	Typical Weight (lbs/1000ft) (excluding reel)	75	116	157	211	306	408	504	606	816
	Diameter under Armor (inches)	—								
	Diameter over Armor (inches)	—								
	Overall Diameter† (inches)	0.42"	0.49"	0.60"	0.63"	0.80"	0.90"	0.98"	1.12"	1.31"
Notes		Individually and collectively shielded. Flame retardant PVC insulated.								

* Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire.

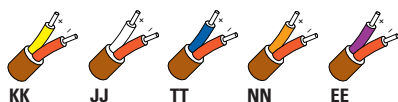
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Color Codes available Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
M4506	- KX	- ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

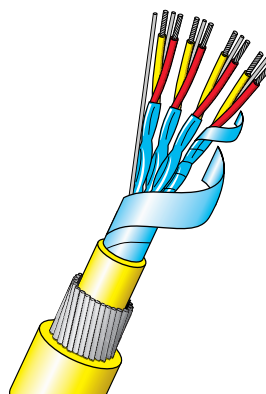
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

XLPE Thermocouple Extension Grade Wire

20 AWG Armored XLPE Insulated Multipairs -22°F to +158°F

- These cables meet the requirements of BS4066 Part 3/IEC 60332.3 Category A covering tests on cables under fire conditions and are ideal for situations where there is a risk of fire and the emission of smoke and gases could threaten life and property
- The sheathing materials used are Halogen free
- The acidic gas which is evolved during combustion is less than 0.5% in accordance with BS6425 Pt 1 and IEC 60754 Pt 1
- The Oxygen Index Value is not less than 30 in accordance with BS2782:2007 Part 1 Method 141



Armored XLPE Multipair

Multipairs of stranded 20 AWG dia conductors XLPE insulated. Pairs numbered, twisted and individually shielded with Mylar® aluminium tape with a drainwire. Pairs laid up, overall shielded with Mylar® aluminium tape with a drainwire. XLPE bedded. Steel wire armored and XLPE sheathed.

Stock Number		M4502/ SWA	M4504/ SWA	M4506/ SWA	M4508/ SWA	M4512/ SWA	M4516/ SWA	M4520/ SWA	M4524/ SWA	M4536/ SWA	
CONDUCTORS	Wire Type (number of strands x AWG)	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32	
	Total Wire Size - AWG (S = Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S	
	Total Area (mm ²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Insulation	XLPE									
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36	
	Conductor Configuration	Twisted									
	Shielded*	Yes - Individually Shielded Pairs									
OVERALL	Insulation	LSF									
	Insulation Rating (°F)	Continuous									
		-22 to +165									
	Short Term	+190									
		Color Coding	Yes								
	Shielded*	Yes - Collective, Overall Shield									
	Physical Properties	Abrasion Resistance	Good								
		Moisture Resistance	Very Good								
		Typical Weight (lbs/1000ft) (excluding reel)	211	232	286	306	402	463	517	578	1802
	Diameter under Armor (inches)	0.30"	0.33"	0.38"	0.41"	0.49"	0.55"	0.60"	0.65"	1.31"	
Diameter over Armor (inches)	0.37"	0.40"	0.45"	0.49"	0.56"	0.62"	0.67"	0.72"	1.46"		
Overall Diameter † (inches)	0.42"	0.52"	0.58"	0.61"	0.71"	0.78"	0.83"	0.88"	1.46"		
Notes		Excellent for fire risk areas. Free of halogens. Individually and collectively shielded. Armored for mechanical strength.									

* Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire.

† 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 Extension Grade to ANSI MC96.1



ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1



Order Code - Example

Stock No.	Thermocouple Type	Color Code
M4506/SWA	- KX	- ANSI

Thermocouple wire is available in the following types: KX, JX, TX, NX, EX, SX or RX. Other less popular thermocouple types are available on request.

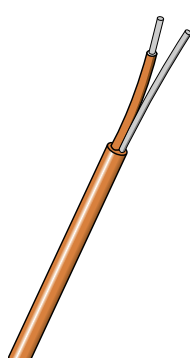
Thermocouple wire is normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

IEC colors are available on request

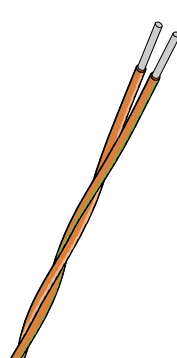
Kapton® Thermocouple Extension Grade Wire - Single Pair

Kapton® Insulated Parallel Construction and Twisted Pair Wire -100°F to +545°F

- Suitable for temperatures ranging from -100°F to +545°F
- Flame retardant with resistance to chemicals and radiation
- Excellent physical, electrical and mechanical properties over high temperatures
- Has high dielectric strength and excellent abrasion resistance



Kapton® Laid Parallel Pair
One pair of **solid** conductors. Negative leg Kapton insulated. Pair laid flat and Kapton sheathed.



Kapton® Twisted Pair
One pair of **solid** or **stranded** Kapton insulated. Pair twisted.

Stock Number			B08	B09	B02
CONDUCTORS	Wire Type (number of strands x AWG)		Solid	Solid	7x32
	Total Wire Size - AWG (S = Stranded)		30	24	24S
	Total Area (mm ²)		0.05	0.2	0.22
	Insulation		Kapton®	Kapton®	
PAIRS	Number of Pairs		1	1	
	Conductor Configuration		Laid Flat	Twisted	
	Shielded		No	No	
OVERALL	Insulation		Kapton®	—	
	Insulation Rating (°F)	Continuous	-100 to +545	-100 to +545	
		Short Term	+750	+750	
	Color Coding		No	No	
	Physical Properties	Abrasion Resistance	Very Good	Very Good	
		Moisture Resistance	Fair	Fair	
		Typical Weight (lbs/1000ft) (excluding reel)	<7	<7	<7
	Diameter under Armor (inches)		—	—	—
	Diameter over Armor (inches)		—	—	—
Overall Diameter† (inches)		0.03”	0.05”	0.06”	
Notes			Egg shaped construction	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.

Order Code - Example

Stock No.	Thermocouple Type
B08	- KX
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.	



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