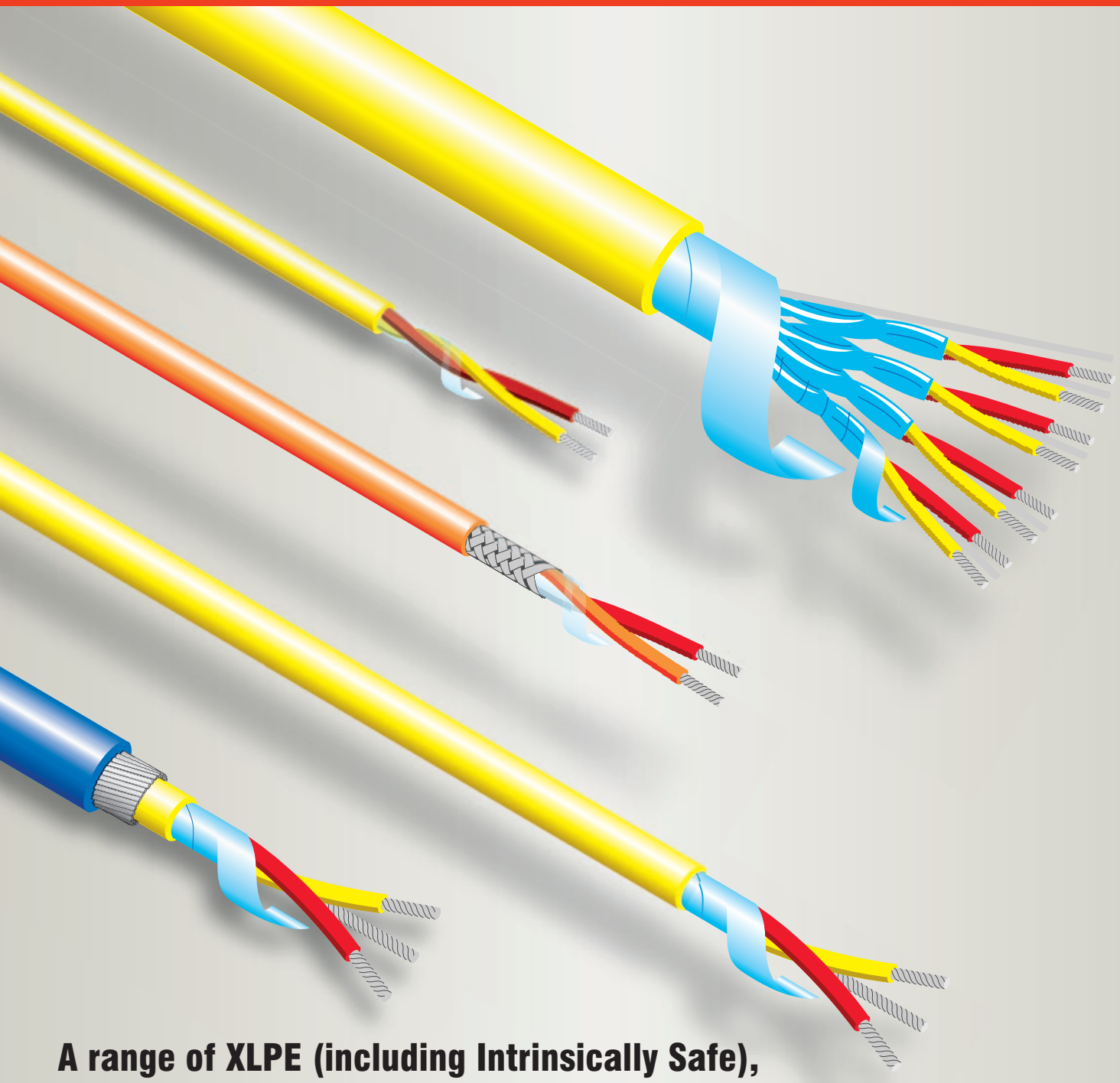
XLPE, XLPE/MICA, Silicone Rubber and Kapton® Insulated Thermocouple Cables - Single Pairs and Multipairs



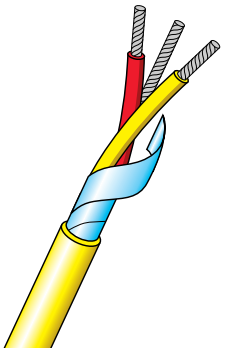
A range of XLPE (including Intrinsically Safe), XLPE/MICA, Silicone Rubber and Kapton® insulated single and multipair thermocouple cables available from stock

TC for Temperature Sensing, Measurement and Control

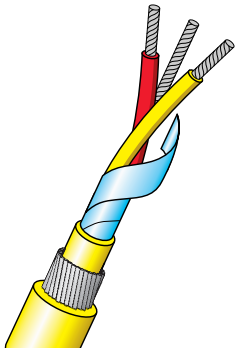
XLPE Insulated Single Pair Thermocouple Cable

XLPE Insulated Twisted with Screen (Low Smoke and Fume) -30°C to +70°C

- Incorporates XLPE (Cross Linked Polyethylene) compound on the cores and Low Smoke and Fume (LSF) material on the bedding and/or outer sheath
- These cables meet the requirements of BS4066 Part 3/IEC 60332.3 Category A covering tests on cables 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 BS6425 Pt 1 1990 and IEC 60754.1: 1996



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



XLPE insulated, Twisted with Screen and Armour (LSF)
One pair of stranded conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LSF bedded. Steel wire armoured and LSF sheathed.

	Stock Number		**G29**	**G31**	**G94**	**G95**
CONDUCTORS	**Conductor Style**		**Stranded**		**Stranded**	
	No. of Strands / Strand Diameter (mm)		**16/0.2**	**23/0.2**	**16/0.2**	**23/0.2**
	Total Area (mm²)		0.5	0.75	0.5	0.75
	Total AWG (S = Stranded)		20S	18S	20S	18S
	Insulation		XLPE		XLPE	
PAIRS	**Number of Pairs**		1		1	
	Laid Flat or Twisted		Twisted		Twisted	
	Screen*		Yes		Yes	
OVERALL	**Insulation**		LSF		LSF	
	Insulation Rating (°C)	**Continuous**	-30 to +70		-30 to +70	
		Short Term	+90		+90	
	Colour Coding		Yes		Yes	
	Physical Properties	**Abrasion Resistance**	Good		Good	
		Moisture Resistance	Very Good		Very Good	
		Typical Weight (Kg/100m) (excluding reel)	4	5	19	22
	Diameter under Armour (mm)		—		5.5	6.0
	Diameter over Armour (mm)		—		7.5	8.0
	Overall Diameter† (mm)		6.0	6.5	10.5	11.0
	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. Armoured for mechanical strength.	

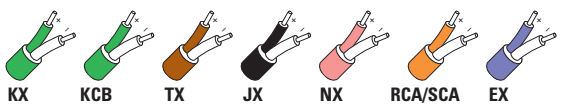
* Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire.
† These values are nominal and if critical to your application, please request a physical check.

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)

ANSI MC96.1

IEC 60584-3



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
G29	-	**KX**	-	**IEC**

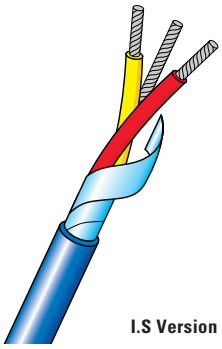
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

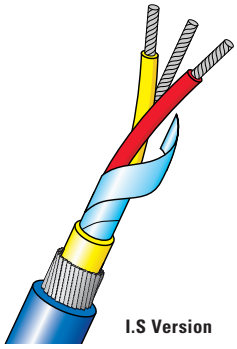
XLPE Insulated Single Pair Thermocouple Cable

Intrinsically Safe XLPE Insulated Twisted with Screen (Low Smoke and Fume) -30°C to +70°C

- Incorporates XLPE (Cross Linked Polyethylene) compound on the cores and Low Smoke and Fume (LSF) material on the bedding and/or outer sheath
- These cables meet the requirements of BS4066 Part 3/IEC 60332.3 Category A covering tests on cables 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 BS6425 Pt 1 1990 and IEC 60754.1: 1996



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



XLPE insulated, Twisted with Screen and Armour (LSF)
One pair of stranded conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LSF bedded. Steel wire armoured and LSF sheathed.

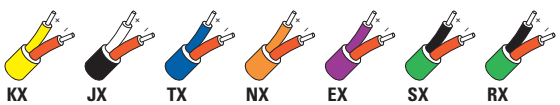
	Stock Number		GS29	GS31	GS94	GS95
CONDUCTORS	Conductor Style		Stranded		Stranded	
	No. of Strands / Strand Diameter (mm)		16/0.2	23/0.2	16/0.2	23/0.2
	Total Area (mm^2)		0.5	0.75	0.5	0.75
	Total AWG (S = Stranded)		20S	18S	20S	18S
	Insulation		XLPE		XLPE	
PAIRS	Number of Pairs		1		1	
	Laid Flat or Twisted		Twisted		Twisted	
	Screen*		Yes		Yes	
OVERALL	Insulation		LSF		LSF	
	Insulation Rating (°C)	Continuous	-30 to +70		-30 to +70	
		Short Term	+90		+90	
	Colour Coding		Yes		Yes	
	Physical Properties	Abrasion Resistance	Good		Good	
		Moisture Resistance	Very Good		Very Good	
		Typical Weight (Kg/100m) (excluding reel)	4	4	19	22
	Diameter under Armour (mm)		—		5.5	6.0
	Diameter over Armour (mm)		—		7.5	8.0
	Overall Diameter† (mm)		6.0	6.5	10.5	11.0
	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. 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)

ANSI MC96.1



IEC 60584-3

Order Code - Example

Stock No.		Thermocouple Type		Colour Code
GS29	-	KX	-	IEC

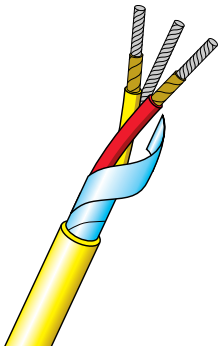
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

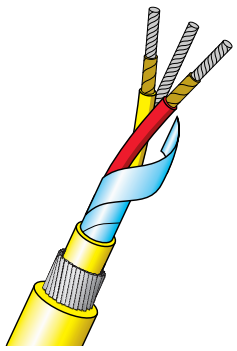
MICA/XLPE Insulated Single Pair Thermocouple Cable

Fire Resistant MICA/XLPE Low Smoke and Fume -30°C to +70°C

- 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 Screen (LSF)
One pair of stranded conductors Mica taped and XLPE insulated. Pair twisted. Screened with Mylar® aluminium tape and drainwire. LSF sheathed.



Mica Taped XLPE insulated, Twisted with Screen & Armour (LSF)
One pair of stranded conductors Mica taped and XLPE insulated. Pair twisted. screened with Mylar® aluminium tape and drain wire. LSF bedded. Steel wire armoured and LSF sheathed.

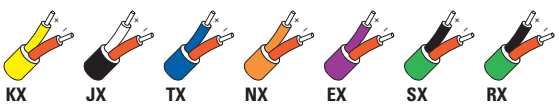
			G98	G97	G99	G96
	Stock Number					
CONDUCTORS	**Conductor Style**		Stranded		Stranded	
	No. of Strands / Strand Diameter (mm)		16/0.2	23/0.2	16/0.2	23/0.2
	Total Area (mm²)		0.5	0.75	0.5	0.75
	Total AWG (S = Stranded)		20S	18S	20S	18S
	Insulation		MICA and XLPE		MICA and XLPE	
PAIRS	**Number of Pairs**		1		1	
	Laid Flat or Twisted		Twisted		Twisted	
	Screen*		Yes		Yes	
OVERALL	**Insulation**		LSF		LSF	
	Insulation Rating (°C)	**Continuous**	-30 to +70		-30 to +70	
		Short Term	+90		+90	
	Colour Coding		Yes		Yes	
	Physical Properties	**Abrasion Resistance**	Good		Good	
		Moisture Resistance	Very Good		Very Good	
		Typical Weight (Kg/100m) (excluding reel)	5	6.7	16.6	23
	Diameter under Armour (mm)		—		7.0	8.6
	Diameter over Armour (mm)		—		9.0	10.4
	Overall Diameter† (mm)		7.0	8.4	12.0	13.6
	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. 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.

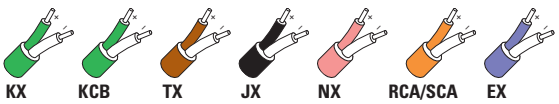
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

ANSI MC96.1



IEC 60584-3



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
G98	-	KX	-	IEC

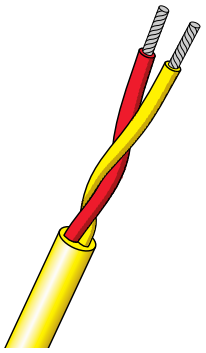
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

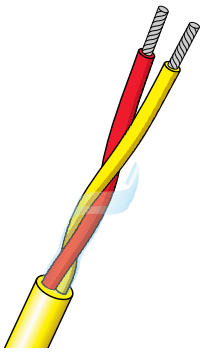
Silicone Rubber Insulated Thermocouple Cable

Flame Retardant Silicone Rubber Insulated Single Pairs -40°C to +200°C

- 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 cables shown on page 4)
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other cables to become inflexible and brittle. These cables also meet the requirements of BS4066 Pt1 / IEC 60332.1 covering tests on cables 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.

			SR30	SR31	SR73	SR77	SR80
	Stock Number						
CONDUCTORS	**Conductor Style**		Stranded		Stranded		
	No. of Strands / Strand Diameter (mm)		7/0.2	7/0.2	7/0.3	16/0.3	16/0.2
	Total Area (mm²)		0.22	0.22	0.49	1.34	0.5
	Total AWG (S = Stranded)		24S	24S	21S	16S	20S
	Insulation		PFA	FR Silicone Rubber	Flame Retardant Silicone Rubber		
PAIRS	**Number of Pairs**		1		1		
	Laid Flat or Twisted		Twisted		Twisted		
	Screen		No		No		
OVERALL	**Insulation**		Flame Retardant Silicone Rubber		Flame Retardant Silicone Rubber		
	Insulation Rating (°C)	**Continuous**	-40 to +200		-40 to +200		
		Short Term	-50 to +250		-50 to +250		
	Colour Coding		Yes		Yes		
	Physical Properties	**Abrasion Resistance**	Good		Good		
		Moisture Resistance	Very Good		Very Good		
		Typical Weight (Kg/100m) (excluding reel)	1	4	4	8	4.5
	Diameter under Armour (mm)		—				
	Diameter over Armour (mm)		—				
	Overall Diameter† (mm)		3.0	4.5	7.0	8.5	6
	Notes		Flame retardant. Round section. Rejects electromagnetic interference.		Flame retardant. Round section. Rejects electromagnetic interference.		

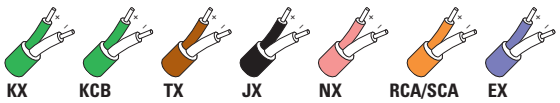
† These values are nominal and if critical to your application, please request a physical check.

The 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)

ANSI MC96.1

IEC 60584-3



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
SR80	-	**KX**	-	**IEC**

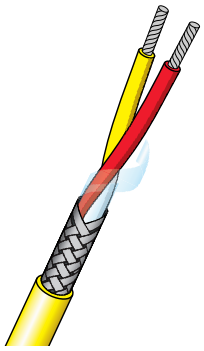
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

Silicone Rubber Insulated Thermocouple Cable

Flame Retardant Silicone Rubber Insulated Single Pairs -40°C to +200°C

- 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 cables shown on page 4)
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other cables to become inflexible and brittle. These cables also meet the requirements of BS4066 Pt1 / IEC 60332.1 covering tests on cables 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.

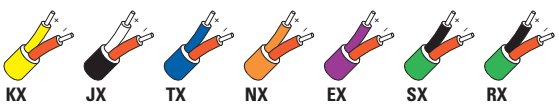
	Stock Number		SR35	SR74	SR76	SR78	SR79
CONDUCTORS	Conductor Style		Stranded				
	No. of Strands / Strand Diameter (mm)		7/0.2	7/0.3	16/0.2	19/0.3	48/0.2
	Total Area (mm^2)		0.22	0.49	0.5	1.34	1.5
	Total AWG (S = Stranded)		24S	21S	20S	16S	15S
	Insulation		Flame Retardant Silicone Rubber				
PAIRS	Number of Pairs		1				
	Laid Flat or Twisted		Twisted				
	Screen*		Yes				
OVERALL	Insulation		Flame Retardant Silicone Rubber				
	Insulation Rating (°C)	Continuous	-40 to +200				
		Short Term	-50 to +250				
	Colour Coding		Yes				
	Physical Properties	Abrasion Resistance	Good				
		Moisture Resistance	Very Good				
		Typical Weight (Kg/100m) (excluding reel)	3	6.3	10	10	11
	Diameter under Armour (mm)		—				
	Diameter over Armour (mm)		—				
	Overall Diameter† (mm)		4.5	6.5	6.5	8	8
	Notes		Flame retardant. Round section. Rejects electromagnetic 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.

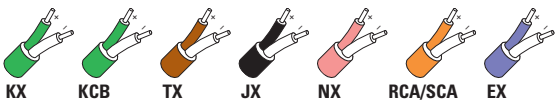
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

ANSI MC96.1



IEC 60584-3



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
SR74	-	KX	-	IEC

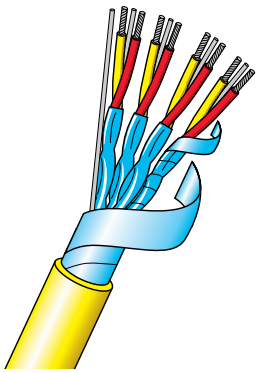
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

Silicone Rubber Insulated Thermocouple Cable

Non Armoured Flame Retardant Silicone Rubber Insulated Multipairs -40°C to +200°C

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 16/0.2mm (0.5mm²) diameter conductors with an individual and collective screen. 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 cables to become inflexible and brittle. These cables also meet the requirements of BS4066 Pt1 / IEC 60332.1 covering tests on cables under fire conditions



Non Armoured Flame Retardant Silicone Rubber Multipair
Multipairs of stranded 16/0.2mm diameter conductors FR Silicone Rubber insulated. Pairs numbered, twisted and individually screened with Mylar® aluminium tape with a drainwire. Pairs laid up, overall screened with Mylar® aluminium tape with a drainwire. Flame Retardant Silicone Rubber sheathed.

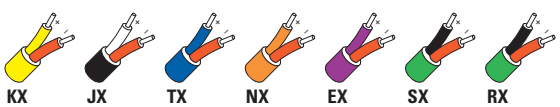
	Stock Number		SM3502	SM3504	SM3506
CONDUCTORS	Conductor Style		Stranded		
	No. of Strands / Strand Diameter (mm)		16/0.2	16/0.2	16/0.2
	Total Area (mm²)		0.5	0.5	0.5
	Total AWG (S = Stranded)		20S	20S	20S
	Insulation		Flame Retardant Silicone Rubber		
PAIRS	Number of Pairs		2	4	6
	Laid Flat or Twisted		Twisted		
	Screen*		Yes - Individually Screened Pairs		
OVERALL	Insulation		Flame Retardant Silicone Rubber		
	Insulation Rating (°C)	Continuous	-40 to +200		
		Short Term	-50 to +250		
	Colour Coding		Yes		
	Screen*		Yes - Collective, Overall Screen		
	Physical Properties	Abrasion Resistance	Good		
		Moisture Resistance	Very Good		
		Typical Weight (Kg/100m) (excluding reel)	9	13	20
	Diameter under Armour (mm)		—		
	Diameter over Armour (mm)		—		
	Overall Diameter† (mm)		9.8	10.8	13
	Notes		Individually and collectively screened. 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.

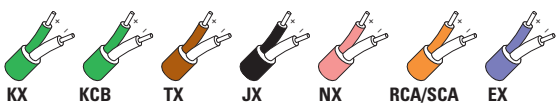
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

ANSI MC96.1



IEC 60584-3



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
SM3506	-	KX	-	IEC

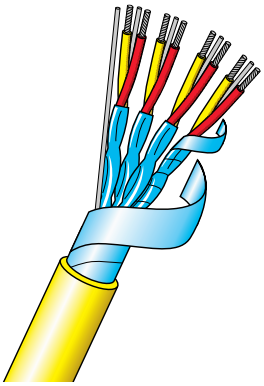
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

XLPE Insulated Multipair Thermocouple Cable

16/0.2mm Non Armoured Flame Retardant XLPE Insulated Multipairs -30°C to +70°C

- 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 Armoured XLPE Multipair
Multipairs of stranded 16/0.2mm dia conductors XLPE insulated.
Pairs numbered, twisted and individually screened with Mylar® aluminium tape with a drainwire.
Pairs laid up, overall screened with Mylar® aluminium tape with a drainwire. LSF sheathed.

			Stock Number	M4502	M4504	M4506	M4508	M4512	M4516	M4520	M4524	M4536
CONDUCTORS	Conductor Style			Stranded								
	No. of Strands / Strand Diameter (mm)			16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2
	Total Area (mm^2)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Total AWG (S = Stranded)			20S	20S	20S	20S	20S	20S	20S	20S	20S
	Insulation			XLPE								
PAIRS	Number of Pairs			2	4	6	8	12	16	20	24	36
	Laid Flat or Twisted			Twisted								
	Screen*			Yes - Individually Screened Pairs								
OVERALL	Insulation			LSF								
	Insulation Rating (°C)	Continuous		-30 to +70								
		Short Term		+90								
	Colour Coding			Yes								
	Screen*			Yes - Collective, Overall Screen								
	Physical Properties	Abrasion Resistance		Good								
		Moisture Resistance		Very Good								
		Typical Weight (Kg/100m) (excluding reel)		11	17	23	31	45	60	74	89	120
	Diameter under Armour (mm)			—								
	Diameter over Armour (mm)			—								
	Overall Diameter† (mm)			10.5	12.5	15.2	16.1	20.4	22.8	24.9	28.4	33.2
			Notes	Excellent for fire risk areas. Free of halogens. Individually and collectively screened.								

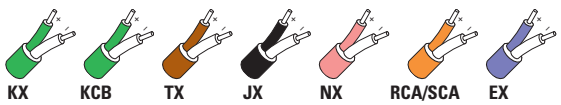
* Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire.
† These values are nominal and if critical to your application, please request a physical check.

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)

ANSI MC96.1

IEC 60584-3



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
M4512	-	KX	-	IEC

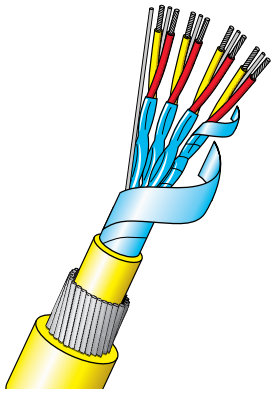
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

XLPE Insulated Multipair Thermocouple Cable

16/0.2mm Armoured Flame Retardant XLPE Insulated Multipairs -30°C to +70°C

- 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



Armoured XLPE Multipair
Multipairs of stranded 16/0.2mm dia conductors XLPE insulated.
Pairs numbered, twisted and individually screened with Mylar® aluminium tape with a drainwire.
Pairs laid up, overall screened with Mylar® aluminium tape with a drainwire.
XLPE bedded. Steel wire armoured and LSF sheathed.

	Stock Number	M4502/SWA	M4504/SWA	M4506/SWA	M4508/SWA	M4512/SWA	M4516/SWA	M4520/SWA	M4524/SWA	M4536/SWA
CONDUCTORS	Conductor Style	Stranded								
	No. of Strands / Strand Diameter (mm)	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2
	Total Area (mm²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Total AWG (S = Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S
	Insulation	XLPE								
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36
	Laid Flat or Twisted	Twisted								
	Screen*	Yes - Individually Screened Pairs								
OVERALL	Insulation	LSF								
	Insulation Rating (°C) — Continuous	-30 to +70								
	Insulation Rating (°C) — Short Term	+90								
	Colour Coding	Yes								
	Screen*	Yes - Collective, Overall Screen								
	Physical Properties — Abrasion Resistance	Good								
	Physical Properties — Moisture Resistance	Very Good								
	Typical Weight (Kg/100m) (excluding reel)	35	55	68	84	112	145	168	207	265
	Diameter under Armour (mm)	10.5	12.5	15.2	16.1	20.4	22.8	24.9	28.4	33.2
	Diameter over Armour (mm)	11.9	15.0	17.7	19.3	23.6	26.0	28.1	32.4	37.2
	Overall Diameter† (mm)	14.7	18.0	20.9	22.5	27.2	29.6	31.9	36.4	41.4
	Notes	Excellent for fire risk areas. Free of halogens. Individually and collectively screened. Armoured for mechanical strength.								

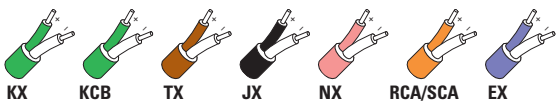
* Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire.
† These values are nominal and if critical to your application, please request a physical check.

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)

ANSI MC96.1

IEC 60584-3



Order Code - Example

Stock No.	Thermocouple Type	Colour Code
M4512/SWA -	KX -	IEC

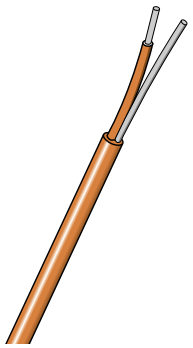
These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to ANSI MC96.1 colour coding.

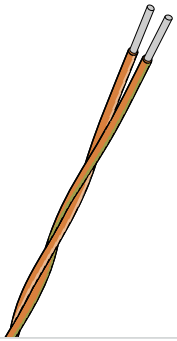
Kapton® Insulated Single Pair Thermocouple Cable

Kapton® Insulated Laid Flat and Twisted Pair Cables -75°C to +285°C

- Suitable for temperatures ranging from -75°C to +285°C
- 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 Flat 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	**Conductor Style**		**Stranded**	**Stranded**	
	No. of Strands / Strand Diameter (mm)		**1/0.25**	**1/0.5**	**7/0.2**
	Total Area (mm^2)		0.05	0.2	0.22
	Total AWG (S = Stranded)		30	24	24S
	Insulation		Kapton®	Kapton®	
PAIRS	**Number of Pairs**		1	1	
	Laid Flat or Twisted		Laid Flat	Twisted	
	Screen		No	No	
OVERALL	**Insulation**		Kapton®	—	
	Insulation Rating (°C)	**Continuous**	-75 to +285	-75 to +285	
		Short Term	+400	+400	
	Colour Coding		No	No	
	Physical Properties	**Abrasion Resistance**	Very Good	Very Good	
		Moisture Resistance	Fair	Fair	
		Typical Weight (Kg/100m) (excluding reel)	<1.0	<1.0	<1.0
	Diameter under Armour (mm)		—	—	—
	Diameter over Armour (mm)		—	—	—
	Overall Diameter† (mm)		<1.0	1.4	1.6
		Notes	Egg shaped construction	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.

Order Code - Example

Stock No.		Thermocouple Type
B08	**-**	**KX**

These cables are available for Thermocouple Types: KX, JX, TX, NX, EX, RX or SX. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock.

Notes

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Issue Number: 1020

TC for Temperature Sensing, Measurement and Control