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



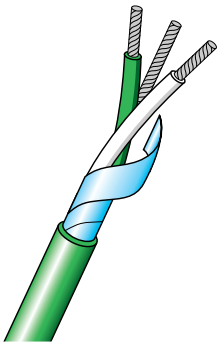
A range of XLPE (including Intrinsically Safe), XLPE/MICA, Silicone Rubber and Kapton® insulated Single and Multipair Thermocouple Cables available from stock

TC Measurement & Control AB

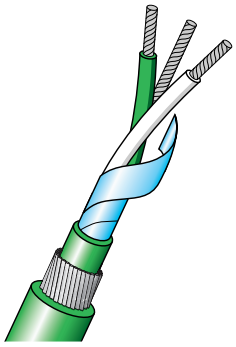
XLPE Insulated Single Pair Thermocouple Cable

Low Smoke Zero Halogen LS0H (LSZH) – XLPE Insulated Twisted with Screen -30°C to +70°C

- XLPE (Cross Linked Polyethylene) insulated cores with a Low Smoke Zero Halogen (LS0H / LSZH) outer sheath
- 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, LS0H (LSZH) outer sheath
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LS0H (LSZH) sheathed overall.



XLPE insulated, Twisted with Screen and Armour, LS0H (LSZH) outer sheath
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LS0H (LSZH) bedded. Steel wire armoured and LS0H (LSZH) 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**		LS0H (LSZH)		LS0H (LSZH)	
	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		Free of halogens. Round section. Rejects electromagnetic and electrostatic interference.		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.

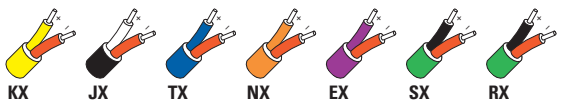
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

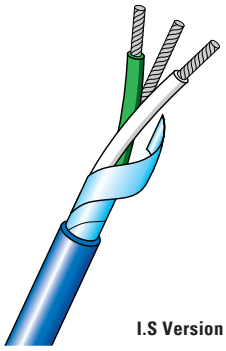
These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 colour coding.

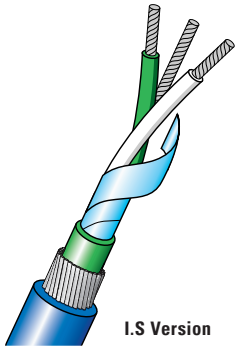
XLPE Insulated Single Pair Thermocouple Cable

Low Smoke Zero Halogen LS0H (LSZH) – XLPE Insulated Twisted with Screen I.S Version -30°C to +70°C

- XLPE (Cross Linked Polyethylene) insulated cores with a Low Smoke Zero Halogen (LS0H / LSZH) outer sheath
- 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, LS0H (LSZH) outer sheath
One pair of stranded conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LS0H (LSZH) sheathed overall.



XLPE insulated, Twisted with Screen and Armour, LS0H (LSZH) outer sheath
One pair of stranded conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LS0H (LSZH) bedded. Steel wire armoured and LS0H (LSZH) sheathed.

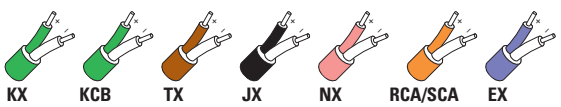
	Stock Number		**GS29**	**GS31**	**GS94**	**GS95**
CONDUCTORS	**Conductor Style**		**Stranded**		**Stranded**	
	No. of Strands / Strand Diameter (mm)		**16/0.2**	**23/0.2**	**16/0.2**	**23/0.2**
	Total Area (mm²)		0.5	0.75	0.5	0.75
	Total AWG (S = Stranded)		20S	18S	20S	18S
	Insulation		XLPE		XLPE	
PAIRS	**Number of Pairs**		1		1	
	Laid Flat or Twisted		Twisted		Twisted	
	Screen*		Yes		Yes	
OVERALL	**Insulation**		LS0H (LSZH)		LS0H (LSZH)	
	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		Free of halogens. Round section. Rejects electromagnetic and electrostatic interference.		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.

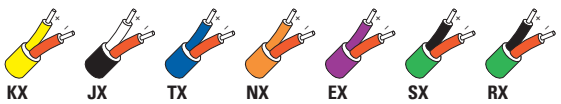
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

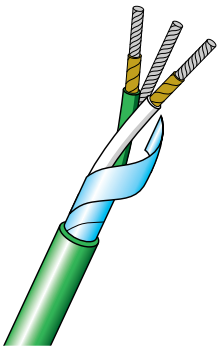
These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 colour coding.

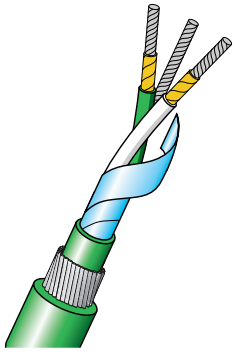
MICA/XLPE Insulated Single Pair Thermocouple Cable

Low Smoke Zero Halogen LS0H (LSZH) - Fire Resistant MICA Taped XLPE with Screen -30°C to +70°C

- Essential for situations where it is of strategic importance to ensure that the cable continues to function during a major crisis involving fire. Resistant to temperatures of 750°C for at least three hours in most conditions
- The cable incorporates a high temperature rated Mica glass tape with an XLPE (Cross Linked Polyethylene) insulated cores with a Low Smoke Zero Halogen (LS0H / LSZH) outer sheath.
- Sheathing materials are Halogen free



Mica Taped XLPE insulated, Twisted with Screen, LS0H (LSZH) outer sheath
One pair of **stranded** conductors Mica taped and XLPE insulated. Pair twisted. Screened with Mylar® aluminium tape and drainwire. LS0H (LSZH) sheathed.



Mica Taped XLPE insulated, Twisted with Screen & Armour, LS0H (LSZH) outer sheath
One pair of **stranded** conductors Mica taped and XLPE insulated. Pair twisted. screened with Mylar® aluminium tape and drain wire. LS0H (LSZH) bedded. Steel wire armoured and LS0H (LSZH) sheathed.

	Stock Number		**G98**	**G97**	**G99**	**G96**
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**		LS0H (LSZH)		LS0H (LSZH)	
	Insulation Rating (°C)	**Continuous**	-30 to +70		-30 to +70	
		Short Term	+750		+750	
	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	23	16.6
	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		Free of halogens. Round section. Rejects electromagnetic and electrostatic interference.		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)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

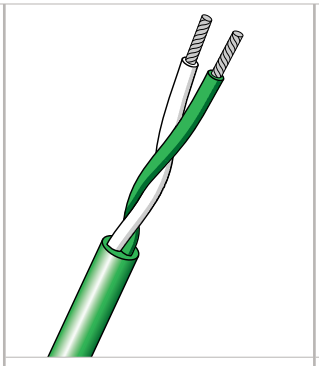
These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 colour coding.

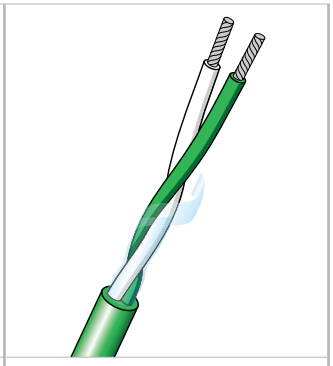
Silicone Rubber Insulated Thermocouple Cable

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

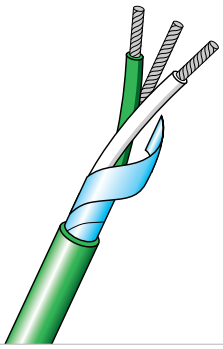
- Excellent properties for the reduced propagation of flame by incorporation of flame retardant Silicone Rubber compounds
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other cables to become inflexible and brittle.



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.



Flame Retardant Silicone Rubber insulated, Twisted Pair with Screen
One pair of stranded conductors. Cores FR Silicone Rubber insulated. Pair twisted, screened with Mylar® Al tape and drain wire. FR Silicone Rubber sheathed overall.

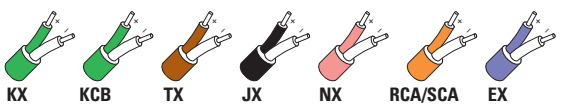
	Stock Number	**SR30**	**SR31**	**SR73**	**SR77**	**SR80**
CONDUCTORS	**Conductor Style**	**Stranded**		**Stranded**		**Stranded**
	No. of Strands / Strand Diameter (mm)	**7/0.2**	**7/0.2**	**7/0.3**	**16/0.3**	**16/0.2**
	Total Area (mm²)	0.22	0.22	0.49	1.34	0.5
	Total AWG (S = Stranded)	24S	24S	21S	16S	20S
	Insulation	PFA	FR Silicone Rubber	Flame Retardant Silicone Rubber		Flame Retardant Silicone Rubber
PAIRS	**Number of Pairs**	1		1		1
	Laid Flat or Twisted	Twisted		Twisted		Twisted
	Screen	No		No		Yes
OVERALL	**Insulation**	Flame Retardant Silicone Rubber		Flame Retardant Silicone Rubber		Flame Retardant Silicone Rubber
	Insulation Rating (°C) — **Continuous**	-40 to +200		-40 to +200		-40 to +200
	Insulation Rating (°C) — **Short Term**	-50 to +250		-50 to +250		-50 to +250
	Colour Coding	Yes		Yes		Yes
	Physical Properties — **Abrasion Resistance**	Good		Good		Good
	Physical Properties — **Moisture Resistance**	Very Good		Very Good		Very Good
	Physical Properties — **Typical Weight (Kg/100m)** (excluding reel)	1	4	4	8	4
	Diameter under Armour (mm)	—		—		—
	Diameter over Armour (mm)	—		—		—
	Overall Diameter† (mm)	3.0	4.5	7.0	8.5	5.4
	Notes	Flame retardant. Round section. Rejects electromagnetic interference.		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.

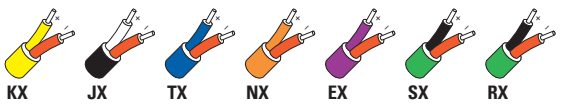
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

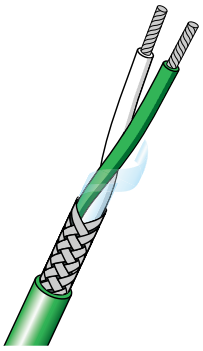
These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 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
- Ideal for applications where, for short periods of time, the temperature can fluctuate, which would cause other cables to become inflexible and brittle.



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.

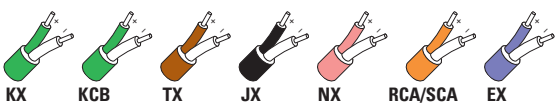
	Stock Number	SR35	SR74	SR76	SR78	SR79
CONDUCTORS	Conductor Style	Stranded				
	No. of Strands / Strand Diameter (mm)	7/0.2	7/0.3	16/0.2	19/0.3	48/0.2
	Total Area (mm^2)	0.22	0.49	0.5	1.34	1.5
	Total AWG (S = Stranded)	24S	21S	20S	16S	15S
	Insulation	Flame Retardant Silicone Rubber				
PAIRS	Number of Pairs	1				
	Laid Flat or Twisted	Twisted				
	Screen*	Yes				
OVERALL	Insulation	Flame Retardant Silicone Rubber				
	Insulation Rating (°C) Continuous	-40 to +200				
	Insulation Rating (°C) Short Term	-50 to +250				
	Colour Coding	Yes				
	Physical Properties: Abrasion Resistance	Good				
	Physical Properties: 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.				

* 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.

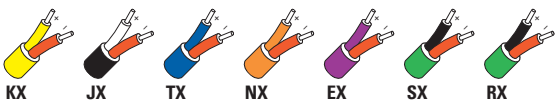
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

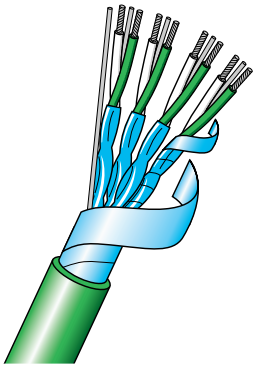
These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 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.



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.

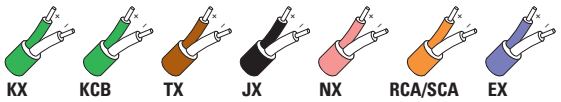
	Stock Number		SM3502	SM3504	SM3506
CONDUCTORS	Conductor Style		Stranded		
	No. of Strands / Strand Diameter (mm)		16/0.2	16/0.2	16/0.2
	Total Area (mm²)		0.5	0.5	0.5
	Total AWG (S = Stranded)		20S	20S	20S
	Insulation		Flame Retardant Silicone Rubber		
PAIRS	Number of Pairs		2	4	6
	Laid Flat or Twisted		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.

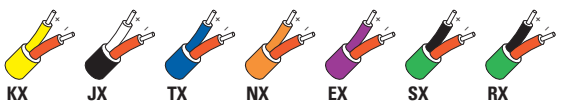
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

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.

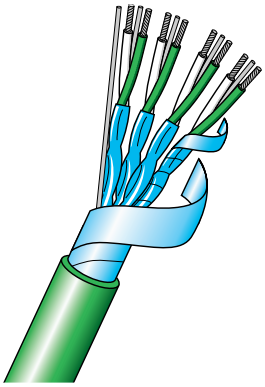
These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 colour coding.

XLPE Insulated Multipair Thermocouple Cable

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

The sheathing materials used are as follows:

- 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 of the overall sheath is typically not less than 30% in accordance with ISO 4589 which allow fire resistance properties



Non Armoured XLPE Multipair, LS0H (LSZH) outer sheath
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. LS0H (LSZH) sheathed.

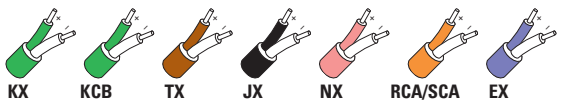
	Stock Number	M4502	M4504	M4506	M4508	M4512	M4516	M4520	M4524	M4536
CONDUCTORS	Conductor Style	Stranded								
	No. of Strands / Strand Diameter (mm)	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2
	Total Area (mm²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Total AWG (S = Stranded)	20S	20S	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	LS0H (LSZH)								
	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								
	Physical Properties — 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	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.

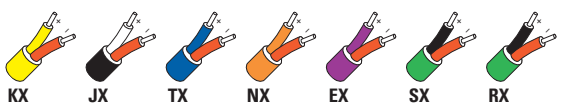
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

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

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.

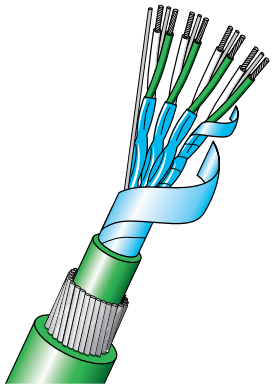
These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 colour coding.

XLPE Insulated Multipair Thermocouple Cable

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

The sheathing materials used are as follows:

- 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 of the overall sheath is typically not less than 30% in accordance with ISO 4589 which allow fire resistance properties



Armoured XLPE Multipair, LS0H (LSZH) outer sheath
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 LS0H (LSZH) sheathed.

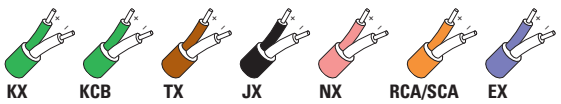
	Stock Number	M4502/ SWA	M4504/ SWA	M4506/ SWA	M4508/ SWA	M4512/ SWA	M4516/ SWA	M4520/ SWA	M4524/ SWA	M4536/ SWA
CONDUCTORS	Conductor Style	Stranded								
	No. of Strands / Strand Diameter (mm)	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2
	Total Area (mm²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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	LS0H (LSZH)								
	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	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.

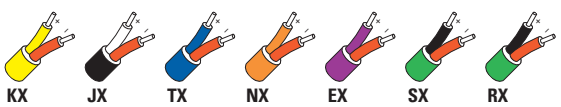
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)

IEC 60584-3



ANSI MC96.1



Order Code - Example

Stock No.		Thermocouple Type		Colour Code
M4502/SWA	-	KX	-	IEC

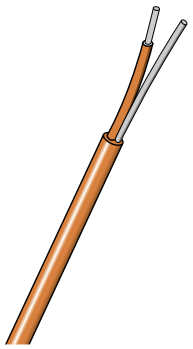
These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.

These cables are normally available from us for **immediate** delivery from stock to IEC 60584-3 colour coding.

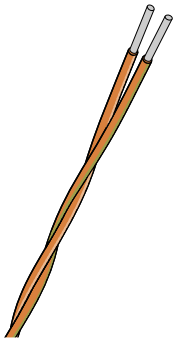
Kapton® Insulated Single Pair Thermocouple Cable

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

- Suitable for temperatures ranging from -75ºC to +285ºC
- 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**		**Solid**	**Solid**	**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, 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.

Notes

TC Measurement & Control AB
Tallbacksgatan 11F
Rosersberg 195 72
Sverige

Tel: 08 252 202
E-post: info@tcmc.se
www.tcmc.se

© TC Measurement & Control AB
Utgåva: 1126