



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

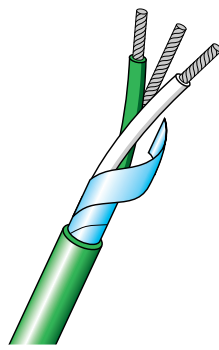


**A range of XLPE (including Intrinsically Safe), XLPE/MICA, Silicone Rubber and Kapton® insulated Single and Multipair Thermocouple Cables available from stock**

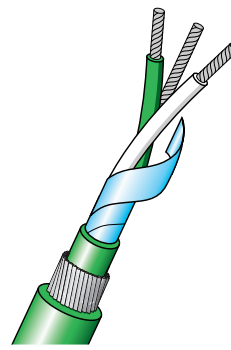
# XLPE Insulated Single Pair Thermocouple Cable

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

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

















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

		Stock Number		G29	G31	G94	G95	
<b>CONDUCTORS</b>	Conductor Style	Stranded		Stranded		Stranded		
	No. of Strands / Strand Diameter (mm)	16/0.2		23/0.2		16/0.2		
	Total Area (mm <sup>2</sup> )	0.5		0.75		0.5		
	Total AWG (S = Stranded)	20S		18S		20S		
<b>PAIRS</b>	Insulation	XLPE		XLPE		XLPE		
	Number of Pairs	1		1		1		
	Laid Flat or Twisted	Twisted		Twisted		Twisted		
	Screen*	Yes		Yes		Yes		
<b>OVERALL</b>	Insulation	LSOH (LSZH)		LSOH (LSZH)		LSOH (LSZH)		
	Insulation Rating (°C)	Continuous	-30 to +70		-30 to +70		-30 to +70	
		Short Term	+90		+90		+90	
	Colour Coding	Yes		Yes		Yes		
	Physical Properties	Abrasion Resistance	Good		Good		Good	
		Moisture Resistance	Very Good		Very Good		Very Good	
		Typical Weight (Kg/100m) (excluding reel)	4	5	19	22	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		
<b>Notes</b>		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.

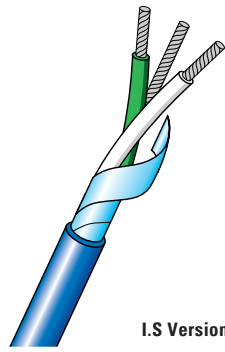
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example		
IEC 60584-3	 <b>KX</b>	 <b>KCB</b>	 <b>TX</b>	 <b>JX</b>
	 <b>NX</b>	 <b>RCA/SCA</b>	 <b>EX</b>	
ANSI MC96.1	 <b>KX</b>	 <b>JX</b>	 <b>TX</b>	 <b>NX</b>
	 <b>EX</b>	 <b>SX</b>	 <b>RX</b>	
		<b>Stock No.</b>	<b>Thermocouple Type</b>	<b>Colour Code</b>
		<b>G29</b>	<b>- KX</b>	<b>- IEC</b>
<p>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.</p> <p>These cables are normally available from us for <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.</p>				

# XLPE Insulated Single Pair Thermocouple Cable

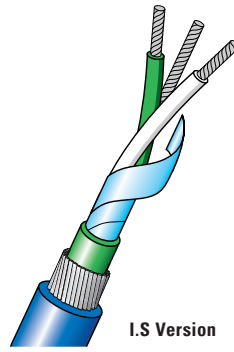
Low Smoke Zero Halogen LSOH (LSZH) – XLPE Insulated Twisted with Screen I.S Version -30°C to +70°C

- XLPE (Cross Linked Polyethylene) insulated cores with a Low Smoke Zero Halogen (LSOH / 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



I.S Version

**XLPE Insulated, Twisted with Screen, LSOH (LSZH) outer sheath**  
One pair of **stranded** conductors. Cores XLPE insulated. Pair twisted, screened with Mylar® aluminium tape and drain wire. LSOH (LSZH) sheathed overall.

















I.S Version

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

Stock Number		GS29	GS31	GS94	GS95	
<b>CONDUCTORS</b>	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 <sup>2</sup> )	0.5	0.75	0.5	0.75	
	Total AWG (S = Stranded)	20S	18S	20S	18S	
Insulation		XLPE		XLPE		
<b>PAIRS</b>	Number of Pairs	1		1		
	Laid Flat or Twisted	Twisted		Twisted		
	Screen*	Yes		Yes		
<b>OVERALL</b>	Insulation	LSOH (LSZH)		LSOH (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 <sup>†</sup> (mm)	6.0	6.5	10.5	11.0		
<b>Notes</b>		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.

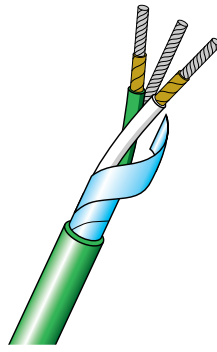
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example											
<b>IEC 60584-3</b>	 <b>KX</b>	 <b>KCB</b>	 <b>TX</b>	 <b>JX</b>	 <b>NX</b>	 <b>RCA/SCA</b>	 <b>EX</b>						
	<table border="1"> <thead> <tr> <th>Stock No.</th> <th>Thermocouple Type</th> <th>Colour Code</th> </tr> </thead> <tbody> <tr> <td><b>GS29</b></td> <td><b>- KX</b></td> <td><b>- IEC</b></td> </tr> </tbody> </table>								Stock No.	Thermocouple Type	Colour Code	<b>GS29</b>	<b>- KX</b>
Stock No.	Thermocouple Type	Colour Code											
<b>GS29</b>	<b>- KX</b>	<b>- IEC</b>											
<b>ANSI MC96.1</b>	 <b>KX</b>	 <b>JX</b>	 <b>TX</b>	 <b>NX</b>	 <b>EX</b>	 <b>SX</b>	 <b>RX</b>						
	<p>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.</p> <p>These cables are normally available from us for <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.</p>												

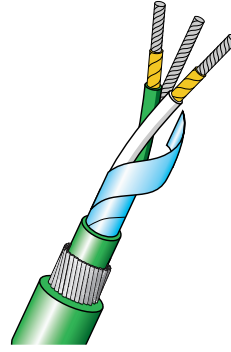
# MICA/XLPE Insulated Single Pair Thermocouple Cable

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		
<b>CONDUCTORS</b>	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 <sup>2</sup> )	0.5	0.75	0.5	0.75		
	Total AWG (S = Stranded)	20S	18S	20S	18S		
Insulation		MICA and XLPE		MICA and XLPE			
<b>PAIRS</b>	Number of Pairs	1		1			
	Laid Flat or Twisted	Twisted		Twisted			
	Screen*	Yes		Yes			
<b>OVERALL</b>	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 <sup>†</sup> (mm)		7.0	8.4	12.0	13.6		
<b>Notes</b>		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.

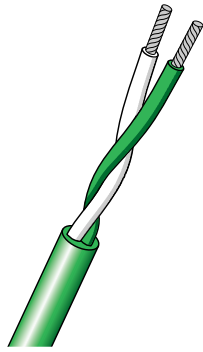
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example									
IEC 60584-3	 KX	 KCB	 TX	 JX	 NX	 RCA/SCA	 EX	Stock No.	Thermocouple Type	Colour Code	
								<b>G98</b>	<b>-</b>	<b>KX</b>	<b>-</b>
ANSI MC96.1	 KX	 JX	 TX	 NX	 EX	 SX	 RX	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 <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.			

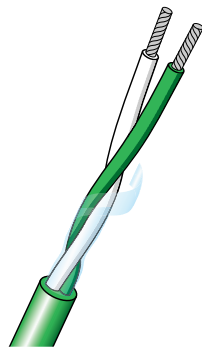
# Silicone Rubber Insulated Thermocouple Cable

## 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.

		SR30	SR31	SR73	SR77	SR80	
<b>CONDUCTORS</b>	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 (mm <sup>2</sup> )	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			
<b>PAIRS</b>	Number of Pairs	1		1			
	Laid Flat or Twisted	Twisted		Twisted			
	Screen	No		No			
<b>OVERALL</b>	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
	Diameter under Armour (mm)		—		—		
	Diameter over Armour (mm)		—		—		
	Overall Diameter <sup>†</sup> (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.			

<sup>†</sup> 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)		Order Code - Example		
IEC 60584-3		Stock No.	Thermocouple Type	Colour Code
		<b>SR80</b>	<b>- KX</b>	<b>- IEC</b>
ANSI MC96.1		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 <b>immediate</b> 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		
<b>CONDUCTORS</b>	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 <sup>2</sup> )	0.22	0.49	0.5	1.34	1.5			
	Total AWG (S = Stranded)	24S	21S	20S	16S	15S			
Insulation		Flame Retardant Silicone Rubber							
<b>PAIRS</b>	Number of Pairs	1							
	Laid Flat or Twisted	Twisted							
	Screen*	Yes							
<b>OVERALL</b>	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			
<b>Notes</b>		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.

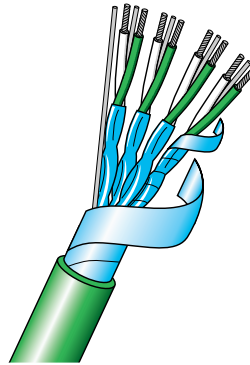
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example					
IEC 60584-3	 KX	 KCB	 TX	 JX	 NX	 RCA/SCA	 EX
	<b>SR74 - KX - IEC</b>						
ANSI MC96.1	 KX	 JX	 TX	 NX	 EX	 SX	 RX
	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 <b>immediate</b> 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 (0.5mm<sup>2</sup>) 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 out, overall screened with Mylar® aluminium tape with a drainwire. Flame Retardant Silicone Rubber sheathed.

		Stock Number	SM3502	SM3504	SM3506	
<b>CONDUCTORS</b>	Conductor Style		Stranded			
	No. of Strands / Strand Diameter (mm)		16/0.2	16/0.2	16/0.2	
	Total Area (mm <sup>2</sup> )		0.5	0.5	0.5	
	Total AWG (S = Stranded)		20S	20S	20S	
Insulation			Flame Retardant Silicone Rubber			
<b>PAIRS</b>	Number of Pairs		2	4	6	
	Laid Flat or Twisted		Twisted			
	Screen*		Yes - Individually Screened Pairs			
<b>OVERALL</b>	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		
<b>Notes</b>		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.

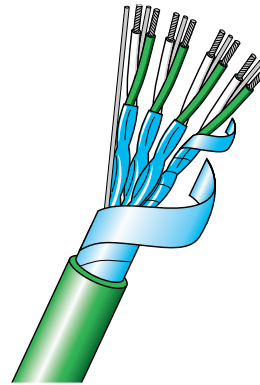
Colour Codes available (other colour codes available on request)		Order Code - Example		
IEC 60584-3	 KX	Stock No.	Thermocouple Type	Colour Code
	 KCB			
ANSI MC96.1	 TX	SM3506	-	KX
	 JX			
	 NX			
	 RCA/SCA			
	 EX			
	 SX			
	 RX			
<p>These cables are available for Thermocouple Types: KX, KCB, JX, TX, NX, EX, RCA or SCA. Other less popular thermocouple types are available on request.</p> <p>These cables are normally available from us for <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.</p>				

# 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, LSOH (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. LSOH (LSZH) sheathed.

		Stock Number	M4502	M4504	M4506	M4508	M4512	M4516	M4520	M4524	M4536	
<b>CONDUCTORS</b>	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	16/0.2	
	Total Area (mm <sup>2</sup> )	0.5	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	20S	
Insulation		XLPE										
<b>PAIRS</b>	Number of Pairs	2	4	6	8	12	16	20	24	36		
	Laid Flat or Twisted	Twisted										
	Screen*	Yes - Individually Screened Pairs										
<b>OVERALL</b>	Insulation	LSOH (LSZH)										
	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			
<b>Notes</b>		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)		Order Code - Example		
IEC 60584-3	 <b>KX</b>	 <b>KCB</b>	 <b>TX</b>	 <b>JX</b>
	 <b>NX</b>	 <b>RCA/SCA</b>	 <b>EX</b>	
ANSI MC96.1	 <b>KX</b>	 <b>JX</b>	 <b>TX</b>	 <b>NX</b>
	 <b>EX</b>	 <b>SX</b>	 <b>RX</b>	
		<b>Stock No.</b>	<b>Thermocouple Type</b>	<b>Colour Code</b>
		<b>M4512</b>	<b>- KX</b>	<b>- IEC</b>
<p>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.</p> <p>These cables are normally available from us for <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.</p>				

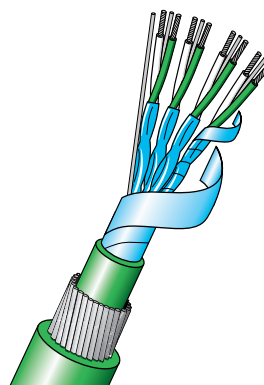


# XLPE Insulated Multipair Thermocouple Cable

## 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, LSOH (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 LSOH (LSZH) sheathed.















		Stock Number	M4502/ SWA	M4504/ SWA	M4506/ SWA	M4508/ SWA	M4512/ SWA	M4516/ SWA	M4520/ SWA	M4524/ SWA	M4536/ SWA	
<b>CONDUCTORS</b>	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	16/0.2	
	Total Area (mm <sup>2</sup> )	0.5	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	20S	
Insulation		XLPE										
<b>PAIRS</b>	Number of Pairs	2	4	6	8	12	16	20	24	36		
	Laid Flat or Twisted	Twisted										
	Screen*	Yes - Individually Screened Pairs										
<b>OVERALL</b>	Insulation	LSOH (LSZH)										
	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)	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.

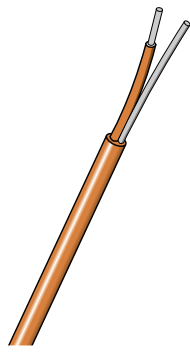
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example								
<b>IEC 60584-3</b>	 <b>KX</b>	 <b>KCB</b>	 <b>TX</b>	 <b>JX</b>	 <b>NX</b>	 <b>RCA/SCA</b>	 <b>EX</b>	<b>Stock No.</b>	<b>Thermocouple Type</b>	<b>Colour Code</b>
								<b>M4502/SWA</b>	<b>- KX</b>	<b>- IEC</b>
<b>ANSI MC96.1</b>	 <b>KX</b>	 <b>JX</b>	 <b>TX</b>	 <b>NX</b>	 <b>EX</b>	 <b>SX</b>	 <b>RX</b>	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 <b>immediate</b> delivery from stock to IEC 60584-3 colour coding.		

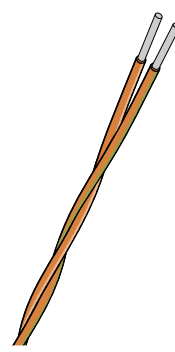
# Kapton® Insulated Single Pair Thermocouple Cable

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

- Suitable for temperatures ranging from -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** conductors. Negative leg Kapton insulated. Pair twisted.

		Stock Number	B08	B09	B02	
<b>CONDUCTORS</b>	<b>Conductor Style</b>		<b>Solid</b>	<b>Solid</b>	<b>Stranded</b>	
	<b>No. of Strands / Strand Diameter (mm)</b>		<b>1/0.25</b>	<b>1/0.5</b>	<b>7/0.2</b>	
	<b>Total Area (mm<sup>2</sup>)</b>		0.05	0.2	0.22	
	<b>Total AWG (S = Stranded)</b>		30	24	24S	
	<b>Insulation</b>		Kapton®	Kapton®		
<b>PAIRS</b>	<b>Number of Pairs</b>		1	1		
	<b>Laid Flat or Twisted</b>		Laid Flat	Twisted		
	<b>Screen</b>		No	No		
<b>OVERALL</b>	<b>Insulation</b>		Kapton®	—		
	<b>Insulation Rating (°C)</b>	<b>Continuous</b>	-75 to +285	-75 to +285		
		<b>Short Term</b>	+400	+400		
	<b>Colour Coding</b>		No	No		
	<b>Physical Properties</b>	<b>Abrasion Resistance</b>		Very Good	Very Good	
		<b>Moisture Resistance</b>		Fair	Fair	
		<b>Typical Weight (Kg/100m) (excluding reel)</b>		<1.0	<1.0	<1.0
	<b>Diameter under Armour (mm)</b>		—	—	—	
	<b>Diameter over Armour (mm)</b>		—	—	—	
	<b>Overall Diameter† (mm)</b>		<1.0	1.4	1.6	
	<b>Notes</b>	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
<b>B08</b>	<b>- KX</b>
<p>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.</p> <p>These cables are normally available from us for <b>immediate</b> delivery from stock.</p>	





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