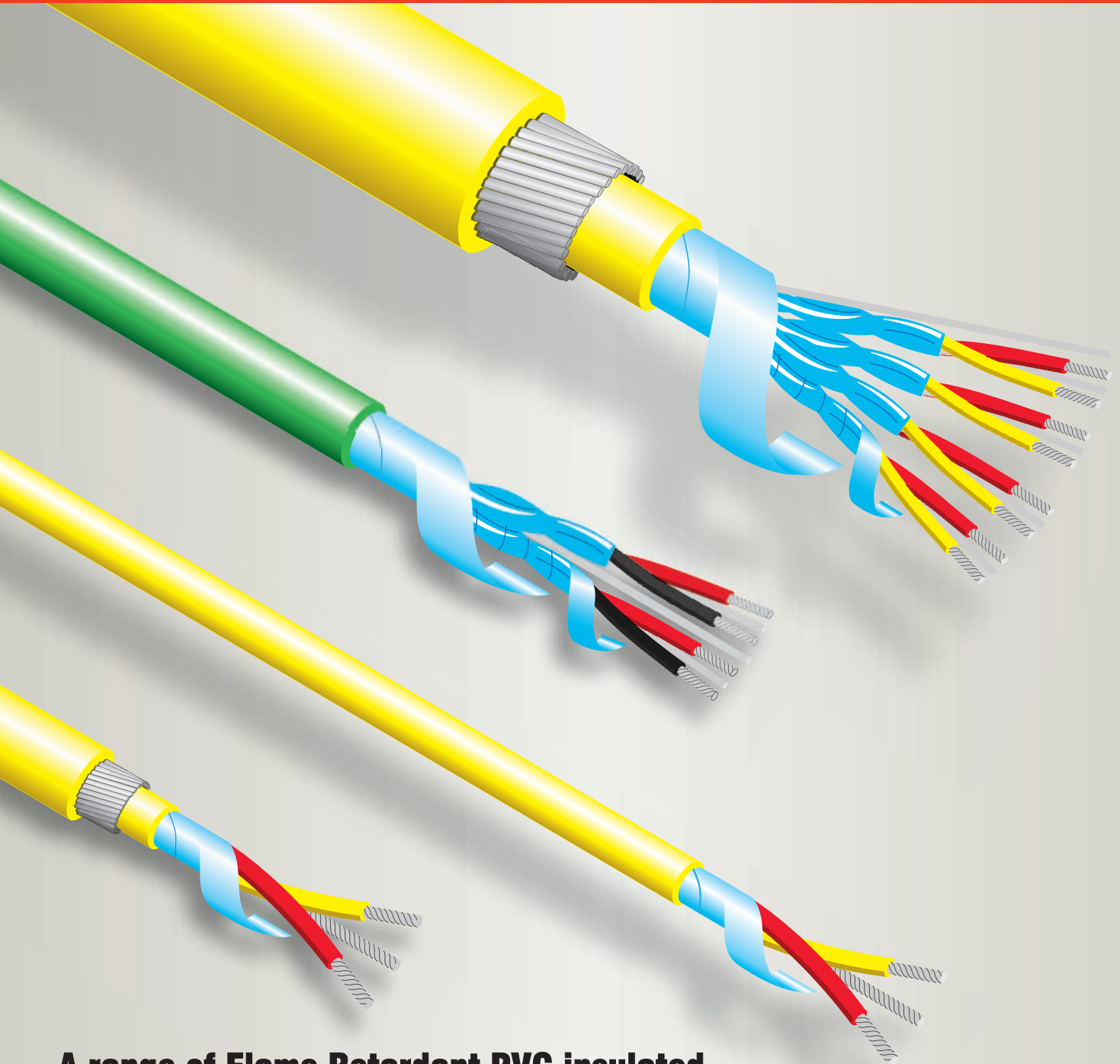




Flame Retardant PVC Insulated Thermocouple Cables - Single Pairs and Multipairs



**A range of Flame Retardant PVC insulated
single and multipair thermocouple cables
available from stock for immediate delivery**

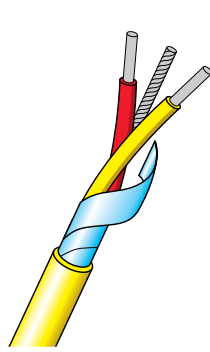
We also have a similar range of Heat Resistant PVC cables - please ask us for details

TC for Temperature Sensing, Measurement and Control

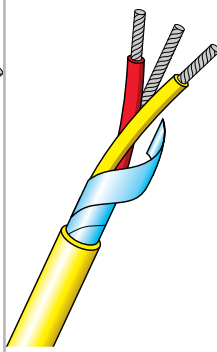
FR PVC Insulated Single Pair Thermocouple Cable

Flame Retardant PVC Insulated Twisted Cables -30°C to +75°C

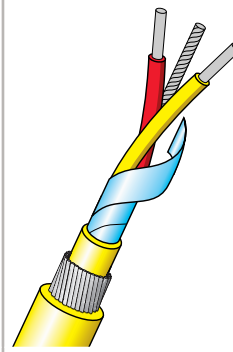
- Excellent properties for the reduced propagation of flame by incorporation of flame retardant (FR) PVC compounds
- Suitable for situations where there is a risk of fire
- The Oxygen Index Value of the overall sheath is typically not less than 30% in accordance with ISO 4589 which allow fire resistance properties



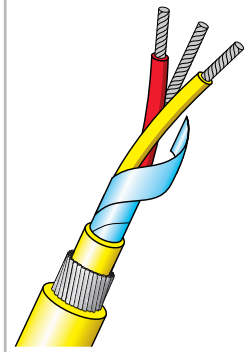
FR PVC Twisted Pair with Screen
One pair of **solid** conductors. Cores FR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. FR PVC sheathed overall.



FR PVC Twisted Pair with Screen
One pair of **stranded** conductors. FR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. FR PVC sheathed overall.



FR PVC Twisted Pair with Screen and Armour
One pair of **solid** conductors FR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. FR PVC bedded, steel wire armoured & FR PVC sheathed.



FR PVC Twisted Pair with Screen and Armour
One pair of **stranded** conductors. Cores FR PVC insulated. Pair twisted, screened with Mylar aluminium tape and drain wire. FR PVC bedded, steel wire armoured and FR PVC sheathed.

Stock Number		FR20	FR25	FR29	FR30	FR50	FR89	FR90	FR94	FR95	
CONDUCTORS	Conductor Style	Solid		Stranded			Solid		Stranded		
	No. of Strands / Strand Diameter (mm)	1/0.8	1/1.29	16/0.2	7/0.2	23/0.2	1/0.8	1/1.29	16/0.2	23/0.2	
	Total Area (mm ²)	0.5	1.3	0.5	0.22	0.75	0.5	1.3	0.5	0.75	
	Total AWG (S = Stranded)	20	16	20S	24S	18S	20	16	20S	18S	
PAIRS	Insulation	Flame Retardant PVC		Flame Retardant PVC			Flame Retardant PVC		Flame Retardant PVC		
	Number of Pairs	1		1			1		1		
	Laid Flat or Twisted	Twisted		Twisted			Twisted		Twisted		
OVERALL	Screen*	Yes		Yes			Yes		Yes		
	Insulation	Flame Retardant PVC		Flame Retardant PVC			Flame Retardant PVC		Flame Retardant PVC		
	Insulation Rating (°C)	Continuous	-30 to +75		-30 to +75			-30 to +75		-30 to +75	
		Short Term	—		—			—		—	
	Colour Coding	Yes		Yes			Yes		Yes		
	Physical Properties	Abrasion Resistance	Good		Good			Good		Good	
		Moisture Resistance	Very Good		Very Good			Very Good		Very Good	
		Typical Weight (Kg/100m) (excluding reel)	4	4	5	3	7	19	30	19	22
	Diameter under Armour (mm)	—		—			5.5	7.0	5.5	6.0	
	Diameter over Armour (mm)	—		—			7.5	9.0	7.5	8.0	
Overall Diameter [†] (mm)	5.5	7x7	5.5	4.5	6.5	9.5	11.0	10.5	11.0		
Notes		Flame Retardant. Round section. Rejects electromagnetic and electrostatic interference.		Flame Retardant. Round section. Rejects electromagnetic and electrostatic interference.			Flame Retardant. Round section. Rejects electromagnetic and electrostatic interference. Armoured for mechanical strength.		Flame Retardant. 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.

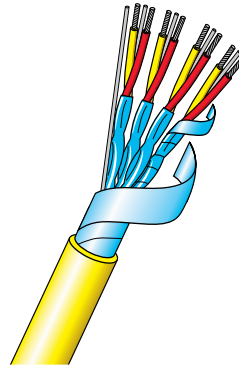
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example		
ANSI/MC96.1		Stock No.	Thermocouple Type	Colour Code
		FR30	- KX	- IEC
IEC 60584-3		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.		

FR PVC Insulated Multipair Thermocouple Cable

7/0.2mm Non Armoured Flame Retardant PVC Insulated Multipairs -30°C to +75°C

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 7/0.2mm (0.22mm²) diameter conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC
- Armoured versions are also available. See page 5



Non Armoured PVC Multipair















Multipairs of stranded 7/0.2mm diameter conductors FR PVC insulated. Pairs numbered, twisted and individually screened with Mylar® aluminium tape and drainwire. Pairs laid up, overall screened with Mylar® aluminium tape with a drainwire. FR PVC sheathed.

		Stock Number	M1702	M1704	M1706	M1708	M1712	M1716	M1720	M1724	M1736	M1750		
CONDUCTORS	Conductor Style	Stranded												
	No. of Strands / Strand Diameter (mm)	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2		
	Total Area (mm ²)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22		
	Total AWG (S = Stranded)	24S	24S	24S	24S	24S	24S	24S	24S	24S	24S	24S		
Insulation		Flame Retardant PVC												
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36	50			
	Laid Flat or Twisted	Twisted												
	Screen*	Yes - Individually Screened Pairs												
OVERALL	Insulation		Flame Retardant PVC											
	Insulation Rating (°C)	Continuous	-30 to +75											
		Short Term	—											
	Colour Coding		Yes											
	Screen*		Yes - Collective, Overall Screen											
	Physical Properties	Abrasion Resistance		Good										
		Moisture Resistance		Very Good										
		Typical Weight (Kg/100m) (excluding reel)		7	8	13	14	23	27	32	37	52	75	
Diameter under Armour (mm)		—												
Diameter over Armour (mm)		—												
Overall Diameter† (mm)		7.8	8.1	9.7	10.5	12.8	14.3	15.9	17.2	19.8	24.5			
Notes		Individually and collectively screened. Flame retardant PVC 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.

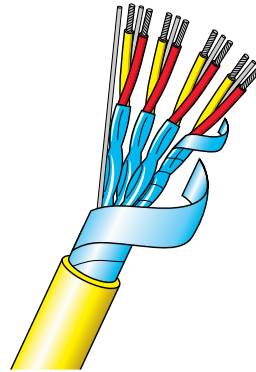
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example		
ANSI MC96.1				
				
IEC 60584-3				
				
		Stock No.	Thermocouple Type	Colour Code
		M1706	- 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.				

FR PVC Insulated Multipair Thermocouple Cable

16/0.2mm Non Armoured Flame Retardant PVC Insulated Multipairs -30°C to +75°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 PVC
- Armoured versions are also available. See page 6



Non Armoured PVC Multipair















Multipairs of stranded 16/0.2mm diameter conductors FR PVC 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. FR PVC sheathed.

		Stock Number	M3502	M3504	M3506	M3508	M3512	M3516	M3520	M3524	M3536	M3550		
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	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	0.5	0.5		
	Total AWG (S = Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S	20S	20S		
Insulation		Flame Retardant PVC												
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36	50			
	Laid Flat or Twisted	Twisted												
	Screen*	Yes - Individually Screened Pairs												
OVERALL	Insulation		Flame Retardant PVC											
	Insulation Rating (°C)	Continuous	-30 to +75											
		Short Term	—											
	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	165	
	Diameter under Armour (mm)		—											
Diameter over Armour (mm)		—												
Overall Diameter† (mm)		10.6	12.5	15.2	16.1	20.4	22.8	24.9	28.4	33.2	39.2			
Notes		Individually and collectively screened. Flame retardant PVC 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.

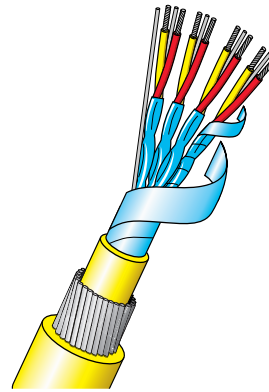
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example					
ANSI/MC96.1							
	KX	JX	TX	NX	EX	SX	RX
ANSI MC961							
	KX	KCB	TX	JX	NX	RCA/SCA	EX
		Stock No.	Thermocouple Type	Colour Code			
		M3512	- 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.					

FR PVC Insulated Multipair Thermocouple Cable

7/0.2mm Armoured Flame Retardant PVC Insulated Multipairs -30°C to +75°C

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 7/0.2mm (0.22mm²) diameter conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC with stainless steel armour overall



Armoured PVC Multipair















Multipairs of stranded 7/0.2mm diameter conductors FR PVC 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. FR PVC bedded. Steel wire armoured and FR PVC sheathed.

Stock Number		M1702/ SWA	M1704/ SWA	M1706/ SWA	M1708/ SWA	M1712/ SWA	M1716/ SWA	M1720/ SWA	M1724/ SWA	M1736/ SWA	M1750/ SWA	
CONDUCTORS	Conductor Style	Stranded										
	No. of Strands / Strand Diameter (mm)	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	
	Total Area (mm ²)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
	Total AWG (S = Stranded)	24S	24S	24S	24S	24S	24S	24S	24S	24S	24S	
Insulation		Flame Retardant PVC										
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36	50	
	Laid Flat or Twisted	Twisted										
	Screen*	Yes - Individually Screened Pairs										
OVERALL	Insulation		Flame Retardant PVC									
	Insulation Rating (°C)	Continuous	-30 to +75									
		Short Term	—									
	Colour Coding		Yes									
	Screen*		Yes - Collective, Overall Screen									
	Physical Properties	Abrasion Resistance		Good								
		Moisture Resistance		Very Good								
		Typical Weight (Kg/100m) (excluding reel)		31	34	42	45	59	68	76	85	105
Diameter under Armour (mm)		7.6	8.3	9.7	10.5	12.4	13.9	15.3	16.6	19.0	22.6	
Diameter over Armour (mm)		9.4	10.1	11.5	12.4	14.2	15.7	17.1	18.4	21.8	24.4	
Overall Diameter† (mm)		12.6	13.3	14.7	15.5	18.0	19.7	21.1	22.4	24.8	28.4	
Notes		Individually and collectively screened. Flame retardant PVC 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.

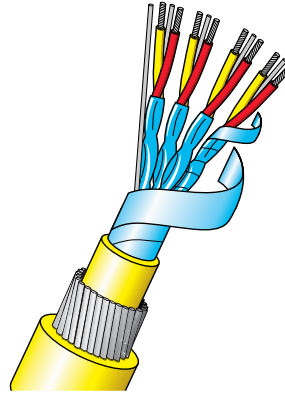
The cable constructions can also be manufactured to any other colour coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding cable lengths please let us know so that we may make a satisfactory offer to meet your needs.

Colour Codes available (other colour codes available on request)		Order Code - Example								
ANSI/MC96.1	 KX	 JX	 TX	 NX	 EX	 SX	 RX	Stock No.	Thermocouple Type	Colour Code
								M1702/SWA	- KX	- IEC
IEC 60584-3	 KX	 KCB	 TX	 JX	 NX	 RCA/SCA	 EX	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.		

FR PVC Insulated Multipair Thermocouple Cable

16/0.2mm Armoured Flame Retardant PVC Insulated Multipairs -30°C to +75°C

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 16/0.2mm diameter (0.5mm²) conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC with stainless steel armour overall



Armoured PVC Multipair















Multipairs of stranded 16/0.2mm diameter conductors FR PVC 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. FR PVC bedded. Steel wire armoured and FR PVC sheathed.

Stock Number		M3502/ SWA	M3504/ SWA	M3506/ SWA	M3508/ SWA	M3512/ SWA	M3516/ SWA	M3520/ SWA	M3524/ SWA	M3536/ SWA	M3550/ 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	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	0.5		
	Total AWG (S = Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S	20S		
Insulation		Flame Retardant PVC											
PAIRS	Number of Pairs	2	4	6	8	12	16	20	24	36	50		
	Laid Flat or Twisted	Twisted											
	Screen*	Yes - Individually Screened Pairs											
OVERALL	Insulation		Flame Retardant PVC										
	Insulation Rating (°C)	Continuous	-30 to +75										
		Short Term	—										
	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	347
Diameter under Armour (mm)		10.6	12.5	15.2	16.1	20.4	22.8	24.9	28.4	33.2	39.2		
Diameter over Armour (mm)		11.9	15.0	17.7	19.3	23.6	26.0	28.1	32.4	37.2	44.2		
Overall Diameter† (mm)		14.7	18.0	20.9	22.5	27.2	29.6	31.9	36.4	41.4	48.8		
Notes		Individually and collectively screened. Flame retardant PVC 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		
ANSI/MC96.1	 KX	 JX	 TX	 NX
	 EX	 SX	 RX	
IEC 60584-3	 KX	 KCB	 TX	 JX
	 NX	 RCA/SCA	 EX	
		Stock No.	Thermocouple Type	Colour Code
		M3502/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.				



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TC for Temperature Sensing, Measurement and Control