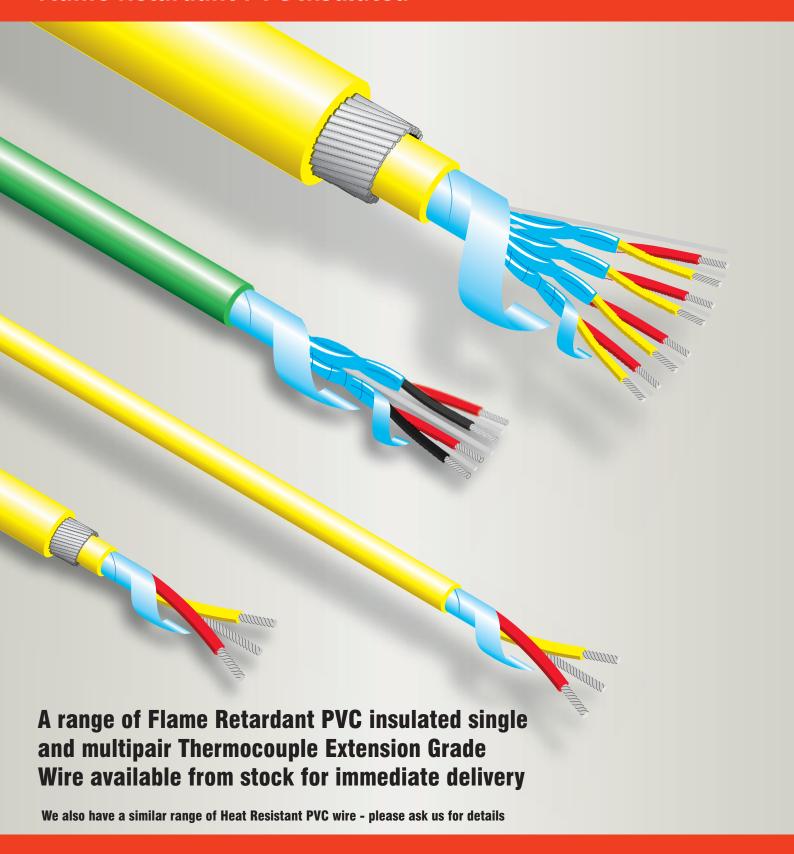


Thermocouple Extension Grade Wire - Single and Multipair Flame Retardant PVC Insulated



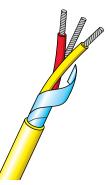
Flame Retardant PVC Insulated Twisted Wire -22°F to +165°F

- Excellent properties for the reduced propagation of flame by incorporation of flame retardant (FR) PVC compounds
- Suitable for situations where there is a risk
- These wire meet the requirements of IEC 60332.1:2004 covering tests on wire that are under fire conditions
- The Oxygen Index Value is not less than 30 in accordance with ASTM D2863



FR PVC Twisted Pair with Shield

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



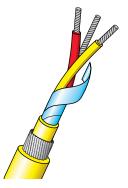
FR PVC Twisted Pair with Shield

One pair of stranded conductors FR PVC insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. FR PVC sheathed overall.



FR PVC Twisted Pair with Shield and Armor

One pair of solid conductors FR PVC insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. FR PVC bedded, steel wire armored & FR PVC sheathed.



FR PVC Twisted Pair with Shield and Armor

One pair of stranded conductors. Cores FR PVC insulated. Pair twisted, shielded with Mylar® aluminium tape and drain wire. FR PVC bedded, steel wire armored and FR PVC sheathed.

			FR PVC sneatne	sneatned overall.			wire armored & F	TIT VO SHEATHEU.	wire armored and FR PVC sneatned.		
		Stock Number	FR20	FR25	FR29	FR30	FR50	FR89	FR90	FR94	FR95
)RS	Wire Type (nur	mber of strands x AWG)	Solid	Solid	16x32	7x32	23x32	Solid	Solid	16x32	23x32
CONDUCTORS	Total Wire Size	e - AWG (S = Stranded)	20	16	20S	24S	19S	20	16	20\$	198
N D	Total Area (mm	1 ²)	0.5	1.3	0.5	0.22	0.75	0.5	1.3	0.5	0.75
00	Insulation		Flame Reta	Flame Retardant PVC			nt PVC	Flame Reta	ardant PVC	Flame Reta	ardant PVC
S	Number of Pair	rs	,		1			1		1	
PAIRS	Conductor Con	figuration	Twi	Twisted				Twi	sted	Twi	sted
_	Shielded*		Ye		Yes		Y	es	Yes		
	Insulation		Flame Reta	Flame Retardant PVC F			nt PVC	Flame Reta	ardant PVC	Flame Retardant PV0	
	Insulation Continuous		-22 to	+165	-:	22 to +16	5	-22 to	+165	-22 to	+165
	Rating (°F)	Short Term	_	_		_		_	_	_	_
_	Color Coding		Ye	Yes Yes				Y	es	Y	es
OVERALL		Abrasion Resistance	Go	Good			Go	od	Go	od	
)VE	Physical Properties	Moisture Resistance	Very	Good	Very Good			Very	Good	Very Good	
	_	Typical Weight (lbs/1000ft) (excluding reel)	28	28	34	21	48	130	204	130	150
	Diameter unde	r Armor (inches)	_	_		_		0.22"	0.28"	0.22"	0.24"
	Diameter over Armor (inches)		_	_		_		0.30"	0.35"	0.30"	0.31"
	Overall Diamet	ter† (inches)	0.22"	0.28"x0.28"	0.22"	0.18"	0.26"	0.37"	0.43"	0.41"	0.43"
		Notes	Flame Retardan Rejects electror electrostatic int		Rejects el	ardant. Rou ectromagne tic interfere		Rejects electroma	agnetic and rference. Armored	Flame Retardant. I Rejects electroma electrostatic interf for mechanical str	gnetic and erence. Armored

Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire. These values are nominal and if critical to your application, please request a physical check.

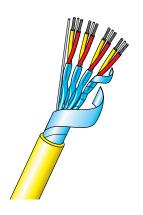
The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Code	s availab	le Extensio	on Grade to	ANSI MCS	96.1		Order Code - Exam	ple	
Q'x	. 4			A Company	, J×		Stock No.	Thermocouple Type	Color Code
кх	JX	TX	NX	EX	SX	RX	FR30	- KX -	ANSI
ALSO AVA	JJ	Thermoco	ouple Grade	to ANSI N	ЛС96.1		NX, EX, SX or RX. Oth available on request. Thermocouple wire is	s available in the followiner less popular thermoods normally available from ANSI MC96.1 colour co	ouple types are

IEC colors are available on request

24 AWG Non Armored Flame Retardant PVC Insulated Multipairs -22°F to +165°F

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 24 AWG conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC
- Meet the requirements of IEC 60332.3 Category C covering tests on wire under fire conditions
- Armored versions are also available.
 See page 5



Non Armored PVC Multipair

Multipairs of stranded 24 AWG conductors FR PVC insulated.

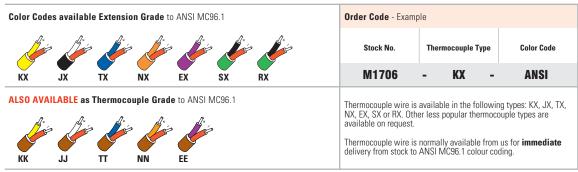
Pairs numbered, twisted and individually shieldeded with Mylar® aluminium tape with a drainwire.

Pairs laid up, overall shieldeded with Mylar® aluminium tape with a drainwire. FR PVC sheathed.

		Stock Number	M1702	M1704	M1706	M1708	M1712	M1716	M1720	M1724	M1736	M1750		
RS	Wire Type (num	nber of strands x AWG)	7x32	7x32	7x32	7x32	7x32	7x32	7x32	7x32	7x32	7x32		
CONDUCTORS	Total Wire Size	Total Wire Size - AWG (S = Stranded)		24S	24S	24S	24S	24S	24S	24S	24S	24S		
NO.	Total Area (mm	12)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22		
CO	Insulation		Flame Retardant PVC											
S	Number of Pair	'S	2	4	6	8	12	16	20	24	36	50		
PAIRS	Conductor Con	figuration	Twisted											
₫.	Shielded*					Yes -	Individually	y Screened	Pairs					
	Insulation	Flame Retardant PVC												
	Insulation	Continuous	-22 to +165											
	Rating (°F)	Short Term												
	Color Coding		Yes											
=	Shielded*		Yes - Collective, Overall Shield											
OVERALL		Abrasion Resistance	Good											
0	Physical Properties	Moisture Resistance					Very	Good						
		Typical Weight (lbs/1000ft) (excluding reel)	48	55	89	96	157	184	218	252	354	510		
	Diameter unde	r Armor (inches)					_	_						
	Diameter over	Armor (inches)					_	_						
	Overall Diamet	er [†] (inches)	0.31"	0.32"	0.38"	0.41"	0.50"	0.56"	0.63"	0.68"	0.78"	0.96"		
		Notes	Individually a	nd collectively	shielded. Flam	ne retardant PV	'C insulated.							

Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire.
 These values are nominal and if critical to your application, please request a physical check.

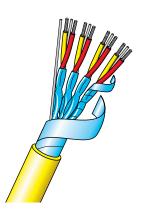
The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.



IEC colors are available on request

20 AWG Non Armored Flame Retardant PVC Insulated Multipairs -22°F to +165°F

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 20 AWG conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC
- Meet the requirements of IEC 60332.3 Category C covering tests on wire under fire
- Armored versions are also available. See page 6



Non Armored PVC Multipair

Multipairs of stranded 20 AWG conductors FR PVC insulated.

Pairs numbered, twisted and individually shielded with Mylar® aluminium tape with a drainwire.

Pairs laid up, overall shielded with Mylar® aluminium tape with a drainwire. FR PVC sheathed.

		Stock Number	M3502	M3504	M3506	M3508	M3512	M3516	M3520	M3524	M3536	M3550		
RS	Wire Type (num	Wire Type (number of strands x AWG)		16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32		
CONDUCTORS	Total Wire Size	Total Wire Size - AWG (S = Stranded)		20\$	20\$	20\$	20\$	20S	20\$	20\$	20S	20S		
	Total Area (mm	n ²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
00	Insulation		Flame Retardant PVC											
တ	Number of Pair	rs	2	4	6	8	12	16	20	24	36	50		
PAIKS	Conductor Con	figuration	Twisted											
<u> </u>	Shielded*			Yes - Individually Shielded Pairs										
	Insulation		Flame Retardant PVC											
	Insulation	Continuous		-22 to +165										
	Rating (°F)	Short Term												
	Color Coding		Yes											
1	Shielded*		Yes - Collective, Overall Shield											
UVEKALL		Abrasion Resistance	Good											
0	Physical Properties	Moisture Resistance					Very	Good						
		Typical Weight (lbs/1000ft) (excluding reel)	75	116	157	211	306	408	504	606	816	1122		
	Diameter unde	r Armor (inches)					_	_						
	Diameter over	Armor (inches)					_	_						
	Overall Diamet	er [†] (inches)	0.42"	0.49"	0.60"	0.63"	0.80"	0.90"	0.98"	1.12"	1.31"	1.54"		

Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire. These values are nominal and if critical to your application, please request a physical check.

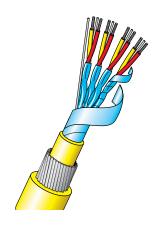
The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Extension Grade to ANSI MC96.1	Order Code - Examp	ole	
To the time to the	Stock No.	Thermocouple Type	Color Code
KX JX TX NX EX SX RX	M3506	- КХ -	ANSI
ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1 KK JJ TT NN EE	NX, EX, SX or RX. Oth available on request. Thermocouple wire is	available in the followinger less popular thermoconormally available from ANSI MC96.1 colour coo	ouple types are us for immediate

IFC colors are available on request

24 AWG Armored Flame Retardant PVC Insulated Multipairs -22°F to +165°F

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 24 AWG conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC with stainless steel armor overall
- Meet the requirements of IEC 60332.3 Category C covering tests on wire under fire conditions



Armored PVC Multipair

Multipairs of stranded 24 AWG conductors FR PVC insulated.

Pairs numbered, twisted and individually shielded with Mylar® aluminium tape with a drainwire.

Pairs laid up, overall shielded with Mylar® aluminium tape with a drainwire. FR PVC bedded. Steel wire armored 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		
)RS	Wire Type (num	ber of strands x AWG)	7x32	7x32	7x32	7x32	7x32	7x32	7x32	7x32	7x32	7x32		
CTC	Total Wire Size	Total Wire Size - AWG (S = Stranded)		24\$	24S	24S	24\$	24S	24\$	24\$	24S	24S		
CONDUCTORS	Total Area (mm²)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
00	Insulation		Flame Retardant PVC											
S	Number of Pair	s	2	4	6	8	12	16	20	24	36	50		
PAIRS	Conductor Conf	iguration	Twisted											
Д.	Shielded*					Yes	- Individuall	y Shielded I	Pairs					
	Insulation		Flame Retardant PVC											
	Insulation	Continuous		-22 to +165										
	Rating (°F)	Short Term	_											
	Color Coding		Yes											
7	Shielded*		Yes - Collective, Overall Shield											
OVERALL		Abrasion Resistance		Good										
0	Physical Properties	Moisture Resistance					Very	Good						
		Typical Weight (lbs/1000ft) (excluding reel)	211	232	286	306	402	463	517	578	714	952		
	Diameter under	Armor (inches)	0.30"	0.33"	0.38"	0.41"	0.49"	0.55"	0.60"	0.65"	0.75"	0.89"		
	Diameter over A	Armor (inches)	0.37"	0.40"	0.45"	0.49"	0.56"	0.62"	0.67"	0.72"	0.86"	0.96"		
	Overall Diamete	er [†] (inches)	0.42"	0.52"	0.58"	0.61"	0.71"	0.78"	0.83"	0.88"	0.98"	1.12"		
	Notes		Individually a	nd collectively	shielded. Flam	ne retardant PV	C insulated.							

Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire. These values are nominal and if critical to your application, please request a physical check.

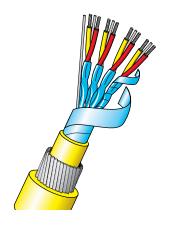
The wire constructions can also be manufactured to any other color coding requirement that you may have, but might be subject to a minimum ordering quantity. If you have any specific requirements regarding wire lengths please let us know so that we may make a satisfactory offer to meet your needs.

Color Codes available Extension Grade to ANSI MC96.1	Order Code - Examp	ole	
to the total to the	Stock No.	Thermocouple Type	Color Code
KX JX TX NX EX SX RX	M1702/SWA	- KX -	ANSI
ALSO AVAILABLE as Thermocouple Grade to ANSI MC96.1 KK JJ TT NN EE	available on request. Thermocouple wire is	available in the following reless popular thermoconormally available from ANSI MC96.1 colour col	us for immediate

IFC colors are available on request

20 AWG Armored Flame Retardant PVC Insulated Multipairs -22°F to +165°F

- Extremely useful where there is a need to run a number of thermocouple signals back to instrumentation
- 20 AWG conductors with an individual and collective screen. Cores, bedding and overall sheath in flame retardant PVC with stainless steel armor overall
- Meet the requirements of IEC 60332.3 Category C covering tests on wire under fire conditions



Armored PVC Multipair

Multipairs of stranded 20 AWG conductors FR PVC insulated.

Pairs numbered, twisted and individually shielded with Mylar® aluminium tape with a drainwire.

Pairs laid up, overall shielded with Mylar® aluminium tape with a drainwire. FR PVC bedded. Steel wire armored 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		
RS	Wire Type (nur	nber of strands x AWG)	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32	16x32		
CT0	Total Wire Size	e - AWG (S = Stranded)	20\$	20S	20S	20S	20S	20S	20\$	20S	20\$	20\$		
CONDUCTORS	Total Area (mn	n ²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
00	Insulation		Flame Retardant PVC											
S	Number of Pai	rs	2	4	6	8	12	16	20	24	36	50		
PAIRS	Conductor Con	figuration					Twi	sted						
Δ.	Shielded*			Yes - Individually Shielded Pairs										
	Insulation						Flame Reta	rdant PVC						
	Insulation	Continuous	-22 to +165											
	Rating (°F)	Short Term	_											
	Color Coding		Yes											
Ţ	Shielded*					Yes	- Collective	, Overall Sh	ield					
OVERALL		Abrasion Resistance	Good											
0	Physical Properties	Moisture Resistance					Very	Good						
	•	Typical Weight (lbs/1000ft) (excluding reel)	238	374	463	572	762	986	1143	1408	1802	2360		
	Diameter unde	r Armor (inches)	0.42"	0.49"	0.60"	0.63"	0.80"	0.90"	0.98"	1.12"	1.31"	1.54"		
	Diameter over	Armor (inches)	0.47"	0.59"	0.70"	0.76"	0.93"	1.02"	1.11"	1.28"	1.46"	1.74"		
	Overall Diame	ter [†] (inches)	0.58"	0.71"	0.82"	0.88"	1.07"	1.17"	1.26"	1.43"	1.63"	1.92"		
		Notes	Individually a	nd collectively	shielded. Flam	ne retardant PV	'C insulated.							

Aluminised Mylar® tape in contact throughout by a bare 7x28 AWG diameter tinned copper drainwire. These values are nominal and if critical to your application, please request a physical check.

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

Color Codes available Extension Grade to ANSI MC96.1								Order Code - Examp	le			
Q'x	"			9*	Q×			Stock No.	Theri	nocouple 1	Гуре	Color Code
кх	JX	TX	NX	EX	SX	RX		M3502/SWA	-	KX	-	ANSI
ALSO AVA	ILABLE as	s Thermoco	ouple Grad	e to ANSI N	ИС96.1		N a	hermocouple wire is IX, EX, SX or RX. Otho vailable on request. hermocouple wire is elivery from stock to	er less _l	oopular the	ermocou	ple types are

IEC colors are available on request

Notes



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