

Flame Retardant PVC Insulated Thermocouple Cables - Single and Multipairs



FR PVC Insulated Single Pair Thermocouple Cable

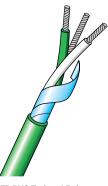
Flame Retardant PVC Insulated Twisted Cables -30°C to +75°C

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



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.



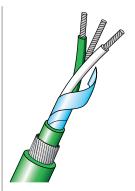
FR PVC Twisted Pair with Screen

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



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

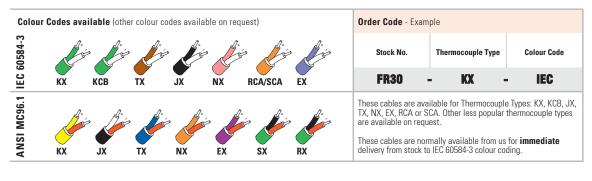


FR PVC Twisted Pair with Screen and Armour

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

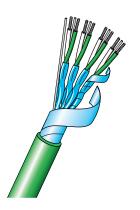
			FR PVC sheathed overall.		FR PVC sheathed overall.			wire armoured &	FR PVC sheathed.	wire armoured and FR PVC sheathed.		
		Stock Number	FR20	FR25	FR29	FR30	FR50	FR89	FR90	FR94	FR95	
S	Conductor Style		Solid		Stranded			So	lid	Stranded		
TOR	No. of Strands / Strand Diameter (mm)		1/0.8	1/1.29	16/0.2	7/0.2	23/0.2	1/0.8	1/1.29	16/0.2	23/0.2	
Onc	Total Area (mm²)		0.5	1.3	0.5	0.22	0.75	0.5	1.3	0.5	0.75	
CONDUCTORS	Total AWG (S = S	tranded)	20	16	20S	24S	18S	20	16	20S	18S	
2	Insulation		Flame Retardant PVC		Flame	Retarda	nt PVC	Flame Reta	ardant PVC	Flame Retardant PVC		
S	Number of Pairs		1		1				1	1		
PAIRS	Laid Flat or Twist	ed	Twis	Twisted			Twi	sted	Twisted			
٦	Screen*		Ye	Yes			Y	es	Yes			
	Insulation		Flame Reta	ardant PVC	Flame	Retarda	nt PVC	Flame Reta	ardant PVC	Flame Reta	ardant PVC	
	Insulation Continuous Rating (°C) Short Term		-30 to +75		-30 to +75			-30 t	o +75	-30 to +75		
			_		_			-	_	_	_	
_	Colour Coding		Yes		Yes			Y	es	Ye	es	
OVERALL		Abrasion Resistance	Good		Good			Go	od	Good		
VEF	Physical Properties	Moisture Resistance	Very Good		Very Good			Very	Good	Very Good		
0	-	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 Ar	mour (mm)	_			_		7.5	9.0	7.5	8.0	
	Overall Diameter	verall Diameter [†] (mm)		7x7	5.5	4.5	6.5	9.5	11.0	10.5	11.0	
	Notes		Flame Retardan Round section. Rejects electron electrostatic int	magnetic and	Flame Retardant. Round section. Rejects electromagnetic and electrostatic interference.		Flame Retardant. Round section. Rejects electroma electrostatic inte Armoured for me	ference.	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.



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

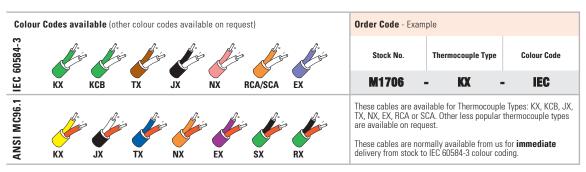


Non Armoured PVC Multipair

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.

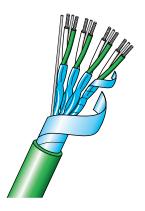
		Stock Number	M1702	M1704	M1706	M1708	M1712	M1716	M1720	M1724	M1736	M1750	
CONDUCTORS	Conductor Style		Stranded										
	No. of Strands / Strand Diameter (mm)		7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	
	Total Area (mm²)		0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
	Total AWG (S = S	Stranded)	24S	24S	24S	24S	24S	24S	24S	24S	24S	24S	
ວ	Insulation		Flame Retardant PVC										
"	Number of Pairs		2	4	6	8	12	16	20	24	36	50	
PAIRS	Laid Flat or Twisted		Twisted										
<u>-</u>	Screen*		Yes - Individually Screened Pairs										
	Insulation		Flame Retardant PVC										
	Insulation Continuous		-30 to +75										
	Rating (°C)	Short Term	_										
	Colour Coding		Yes										
Ⅎ	Screen*					Yes	- Collective,	Overall Sc	reen				
OVERALL		Abrasion Resistance					Go	od					
0	Physical Properties	Moisture Resistance					Very	Good					
	Порогиоз	Typical Weight (Kg/100m)	7	8	13	14	23	27	32	37	52	75	
	Diameter under	•	_										
	Diameter over A	Diameter over Armour (mm)					_	_					
	Overall Diamete	r [†] (mm)	7.8	8.1	9.7	10.5	12.8	14.3	15.9	17.2	19.8	24.5	
		Notes	Individually a	nd collectively	screened. Flar	ne retardant P	/C 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.



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

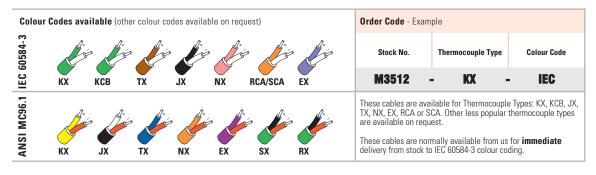


Non Armoured PVC Multipair

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.

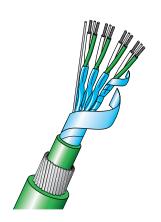
		Stock Number	M3502	M3504	M3506	M3508	M3512	M3516	M3520	M3524	M3536	M3550		
CONDUCTORS	Conductor Style	Conductor Style		Stranded										
	No. of Strands / Strand Diameter (mm)		16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2	16/0.2		
	Total Area (mm²)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
	Total AWG (S = S	Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S	20S		
	Insulation		Flame Retardant PVC											
S	Number of Pairs		2	4	6	8	12	16	20	24	36	50		
PAIRS	Laid Flat or Twis	Twisted												
Ъ	Screen*	Yes - Individually Screened Pairs												
	Insulation	Flame Retardant PVC												
	Insulation Rating (°C)	Continuous	-30 to +75											
		Short Term	_											
	Colour Coding			Yes										
4	Screen*					Yes	- Collective,	Overall Sc	reen					
OVERALL		Abrasion Resistance	Good											
0	Physical Properties	Moisture Resistance					Very	Good						
	•	Typical Weight (Kg/100m) (excluding reel)	11	17	23	31	45	60	74	89	120	165		
	Diameter under	•					_	_						
	Diameter over A	rmour (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 a	nd collectively	screened. Flan	ne retardant P	/C 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.



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

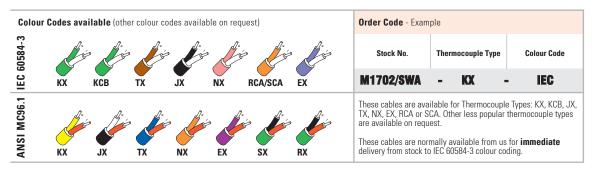
Multipairs of stranded 7/0.2mm diameter conductors FR PVC insulated.

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.

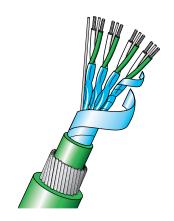
		Stock Number	M1702/ SWA	M1704/ SWA	M1706/ SWA	M1708/ SWA	M1712/ SWA	M1716/ SWA	M1720/ SWA	M1724/ SWA	M1736/ SWA	M1750/ SWA		
CONDUCTORS	Conductor Style		Stranded											
	No. of Strands / Strand Diameter (mm)		7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2		
	Total Area (mm²)		0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22		
	Total AWG (S = S	tranded)	24S	24S	24S	24S	24S	24S	24S	24S	24S	24S		
20	Insulation		Flame Retardant PVC											
S	Number of Pairs		2	4	6	8	12	16	20	24	36	50		
PAIRS	Laid Flat or Twisted		Twisted											
Δ	Screen*		Yes - Individually Screened Pairs											
	Insulation		Flame Retardant PVC											
	Insulation	Insulation Continuous		-30 to +75										
	Rating (°C)	Short Term	_											
	Colour Coding			Yes										
=	Screen*					Yes	- Collective	, Overall Sc	reen					
OVERALL		Abrasion Resistance					Go	od						
<u>></u>	Physical Properties	Moisture Resistance					Very	Good						
		Typical Weight (Kg/100m) (excluding reel)	31	34	42	45	59	68	76	85	105	140		
	Diameter under A	Armour (mm)	7.6	8.3	9.7	10.5	12.4	13.9	15.3	16.6	19.0	22.6		
	Diameter over Ar	mour (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 a	nd collectively	screened. Flar	me retardant P	/C 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.



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

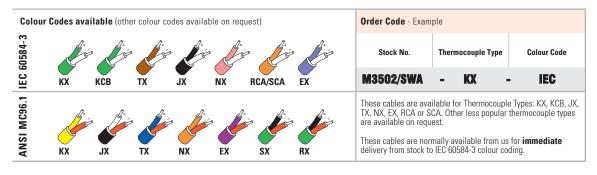


Armoured PVC Multipair

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 (mm²)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
ON C	Total AWG (S = S	Stranded)	20S	20S	20S	20S	20S	20S	20S	20S	20S	20S	
2	Insulation		Flame Retardant PVC										
s	Number of Pairs		2	4	6	8	12	16	20	24	36	50	
PAIRS	Laid Flat or Twisted		Twisted										
Δ	Screen*	Yes - Individually Screened Pairs											
	Insulation	Flame Retardant PVC											
	Insulation Rating (°C)	Continuous	-30 to +75										
		Short Term	_										
	Colour Coding			Yes									
4	Screen*			Yes - Collective, Overall Screen									
OVERALL		Abrasion Resistance	Good										
0	Physical Properties	Moisture Resistance					Very	Good					
	•	Typical Weight (Kg/100m) (excluding reel)	35	55	68	84	112	145	168	207	265	347	
	Diameter under	Diameter under Armour (mm)		12.5	15.2	16.1	20.4	22.8	24.9	28.4	33.2	39.2	
	Diameter over A	rmour (mm)	11.9	15.0	17.7	19.3	23.6	26.0	28.1	32.4	37.2	44.2	
	Overall Diamete	r [†] (mm)	14.7	18.0	20.9	22.5	27.2	29.6	31.9	36.4	41.4	48.8	
		Notes	Individually a	nd collectively	screened. Flan	ne retardant P	/C 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.



Notes



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