



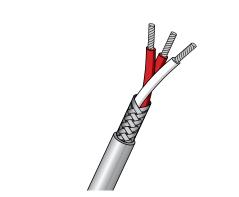
A range of cables for use with RTD Sensors in PVC, PFA, Fibreglass and MICA insulation available from stock for immediate delivery

PVC Insulated RTD Cables -30°C to +105°C

- 2, 3, 4, 6 or 8 cores of 7/0.2mm or 13/0.2mm diameter twisted conductors PVC insulated with tinned copper braid and overall PVC sheath for use up to 105°C
- Cores colour coded:-

2 core: 1 cores red and 1 core white 3 core: 2 cores red and 1 core white 4 core: 2 cores red and 2 cores white 6 core: 4 cores red and 2 cores white 8 core: 4 cores red and 4 cores white Outer sheath: Grey

Ideal for general purpose applications



Heat Resistant PVC Insulated with Metal Braid

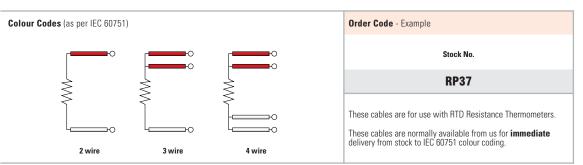
Cores of stranded copper conductors. Cores heat resistant PVC insulated. Cores bunched together. Tinned copper wire braided. heat resistant PVC sheathed overall.

		Stock Number	RP27	RP37	RP47	RP67	RP87	RP33	RP43	
s	Conductor Style		Stranded							
TOR	No. of Strands / S	trand Diameter (mm)	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	13/0.2	13/0.2	
DNC	Total Area (mm ²)		0.22	0.22	0.22	0.22	0.22	0.44	0.44	
CONDUCTORS	Total AWG (S = Stranded)		24S	24S	S24	S24	24S	21S	21S	
ü	Insulation	Heat Resistant PVC								
s	Number of Cores		2	3	4	6	8	3	4	
CORES	Laid Flat or Twist	Twisted								
ວ	Screen*		Yes							
	Insulation	Heat Resistant PVC								
	Insulation Continuous		-30 to +105							
	Rating (°C)	Short Term	_							
_	Colour Coding	Yes								
OVERALL		Abrasion Resistance	Good							
VEF	Physical Properties	Moisture Resistance	Very Good							
0		Typical Weight (Kg/100m) (excluding reel)	2	2	3	4	8	8	10	
	Diameter under A	rmour (mm)	_							
	Diameter over Ar	mour (mm)	_							
	Overall Diameter	† (mm)	4	4	5	6	7	5	6	
Notes Ideal for general use in normal ambient applications. Rejects electromagnetic and electrostatic interference. Round section.					static					

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. t

The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.

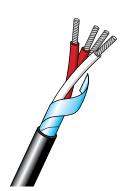


PFA Insulated RTD Cables -75°C to +250°C

- 2, 3, 4, 6 or 8 cores of 7/0.2mm diameter twisted conductors overall PFA sheath for use up to 250°C. Tinned copper braid and Mylar[®] aluminium tape screen option.
- Cores colour coded: 2 core: 1 cores red and 1 core white
 3 core: 2 cores red and 1 core white
 4 core: 2 cores red and 2 cores white
 6 core: 4 cores red and 2 cores white
 8 core: 4 cores red and 4 cores white
- Ideal for general purpose applications



PFA Insulated Cores of stranded copper conductors. Cores PFA insulated and bunched together. PFA sheathed overall.



PFA Insulated with Screen Cores of stranded copper d conductors. PFA extruded, bunched together and screened with Mylar aluminium tape and drain wire. PFA sheathed overall.



PFA Insulated with Metal Braid

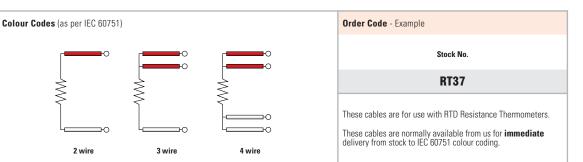
Cores of stranded copper conductors. Cores PFA insulated. Cores bunched together. Nickel plated copper wire braided. PFA sheathed overall.Orange outer sheath (also available with a black outer, please suffix order code with a 'B' e.g. RT37B).

		Stock Number	RT38	RT48	RT39	RT49	RT69	RT27	RT37	RT47	RT67	RT82	RT87
s	Conductor Style		Stra	nded	Stranded Stranded								
TOR	No. of Strands / S	trand Diameter (mm)	7/0.2	7/0.15	7/0.1	7/0.1	7/0.1	7/0.2	7/0.2	7/0.2	7/0.2	7/0.1	7/0.2
CONDUCTORS	Total Area (mm²)		0.22	0.124	0.05	0.05	0.05	0.22	0.22	0.22	0.22	0.05	0.22
ONC	Total AWG (S = S	tranded)	24S	26S	30S	30S	30S	24S	24S	24S	24S	30S	24S
ວ	Insulation		PF	A		PFA			PFA				
s	Number of Cores		3	4	3	4	6	2	3	4	6	8	8
CORES	Laid Flat or Twisted		Twi	sted		Twisted			Twisted				
ö	Screen*		N	0		Yes			Yes				
	Insulation		Thin PFA		PFA		PFA						
	Insulation	Continuous	-75 to	+250		-75 to +250)		-75 to +250				
	Rating (°C)	Short Term	+300		+300			+300					
_	Colour Coding		Yes		Yes		Yes						
OVERALL		Abrasion Resistance	Good		Very Good		Very Good						
VEF	Physical Properties	Moisture Resistance	Go	od	Very Good		Very Good						
0	•	Typical Weight (Kg/100m) (excluding reel)	1	2	1	1.1	1.5	3	2	2	3	3	5
	Diameter under A	rmour (mm)	_										
	Diameter over Ar	mour (mm)	_	_		—		_					
	Overall Diameter	† (mm)	2.1	2.1	2.2	2.6	2.8	3	3	3	4	3	5
Notes			Round section. Re electromagnetic ir		Rejects ele interferenc	ectromagnetic :e.	2				ation. Reje ound sectio		nagnetic

* Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire. Where cables incorporate a metal braid, the braid can be used as a screen.

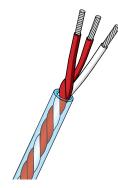
t These values are nominal and if critical to your application, please request a physical check.

The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



Other PFA Insulated RTD Cables -75°C to +250°C

- 1, 3, 4 or 6 cores of PFA insulated cables for use up to 250°C.
- Cores colour coded: 3 core: 2 cores red and 1 core white
 4 core: 2 cores red and 2 cores white
 6 core: 4 cores red and 2 cores white
 8 core: 4 cores red and 4 cores white
- Ideal for general purpose applications



PFA / Silicone Rubber Insulated Cores of **stranded** copper conductors. Cores PFA insulated. Cores bunched together. Silicone Rubber sheathed overall.

		Stock Number	RS37	RS47	RS67	RS87			
C0	Conductor Style		Stranded						
	No. of Strands / S	Strand Diameter (mm)	7/0.2	7/0.2	7/0.2	7/0.2			
	Total Area (mm ²)	0.22	0.22	0.22	0.22			
	Total AWG (S = S	24S	24S	24S	24S				
	Insulation	PFA							
s	Number of Cores	3	4	6	8				
CORES	Laid Flat or Twis	Twisted							
ü	Screen*	No							
	Insulation	Silicone Rubber							
	Insulation	Continuous	-40 to +200						
	Rating (°C)	Short Term	-50 to +250						
_	Colour Coding	Yes							
OVERALL	Abrasion Resistance		Good						
VEI	Physical Properties	Moisture Resistance	Very Good						
0		Typical Weight (Kg/100m) (excluding reel)	2	3	3	4			
	Diameter under /	Diameter under Armour (mm)			_				
	Diameter over A	rmour (mm)		_	_				
	Overall Diameter	r† (mm)	4	4	5	5			
	Notes				tight insula tic and elec ection.				

PFA 'single' One core of **stranded** copper conductor PFA insulated. Red or White available.

led 7/0.2 0.22 24S PF 1	1/0.2 0.03 32	1/0.2 0.03 32						
0.22 24S PF	0.03 32	0.03						
24S PF	32							
PF		32						
	A							
1		PFA						
	1	1						
N	0							
PF	A							
-75 to	+250							
+3	00							
White	Red	White						
Very	Good							
Very	Good							
<1	<1	<1						
_	_							
<1 <1 <1								
	PF -75 to +3 White Very Very <1 - - <1	Very Good Very Good <1 <1 <1 <1 in sensor manufactu						



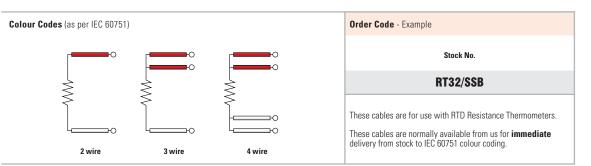
PFA Insulated with Stainless Steel Braid Cores of stranded copper conductors, PFA insulated and bunched together with overall stainless steel braid.

RT32/SSB	RT37/SSB				
Strai	nded				
7/0.1	7/0.2				
0.05	0.22				
30S	24S				
PF	A				
3	3				
Twisted					
Yes					
PFA					
-75 to	+250				
+3	00				
Ye	es				
Very	Good				
Very	Good				
1	2				
_	_				
_	_				
2	2.6				
Rejects electroma electrostatic inter Round section.					

* 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 above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



Fibreglass Insulated RTD Cables -60°C to +480°C

- 3, 4, or 6 cores of 7/0.2mm diameter bunched conductors fibreglass with fibreglass overall with a stainless steel braid overall.
- Cores colour coded:-3 core: 2 cores red and 1 core white 4 core: 2 cores red and 2 cores white 6 core: 4 cores red and 2 cores white
- Suitable for use at normal air ambient temperatures where there is a possibility of a hot spot which might damage lower rated cables such as PVC or PFA



Fibreglass Insulated with Stainless Steel Braid

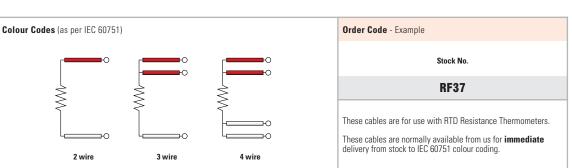
Cores of stranded copper conductors. Cores double glass lapped, glass fibre braided and varnished. Cores bunched together, glass fibre braided overall and impregnated with silicone varnish. Stainless steel braid overall.

		Stock Number	RF37	RF47	RF67		
	Conductor Style		Stranded				
BSS	No. of Strands / S	Strand Diameter (mm)	7/0.2	7/0.2	7/0.2		
CONDUCTORS	Total Diameter (r	nm)	0.5	0.5	0.5		
	Total Area (mm ²		0.22	0.22	0.22		
	Total AWG (S = S	tranded)	24S	24S	24S		
	Insulation		Fibreglass				
s	Number of Cores		3	4	6		
CORES	Laid Flat or Twis	ted	Twisted				
ö	Screen*		Yes				
	Insulation		Fibreglass				
	Insulation	Continuous	+480				
	Rating (°C)	Short Term	+540				
_	Colour Coding		Yes				
OVERALL	Abrasion Resistance		Good				
VEI	Physical Properties	Moisture Resistance	None				
0		Typical Weight (Kg/100m) (excluding reel)	2	3	4		
	Diameter under A	Armour (mm)	_				
	Diameter over Ar	mour (mm)					
	Overall Diameter	⁺ (mm)	3	4	5		
		Notes	Above 180°C the integrity of the cable is maintained to the upper insulation rating limit provided the cable is not flexed particularly when cold.				

Where cables incorporate a metal braid, the braid can be used as a screen.

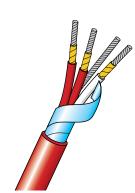
† These values are nominal and if critical to your application, please request a physical check.

The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



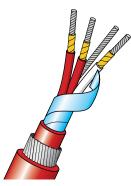
XLPE Insulated Twisted with Screen (Low Smoke and Fume) - 30°C to +75°C

- 3 or 6 cores of 7/0.3mm diameter twisted conductors. The cable incorporates a high temperature rated MICA glass tape with a XLPE (Cross Linked Polyethylene) insulation on the cores and Low Smoke and Fume material on the bedding and/or outer sheath
- Sheathing materials are Halogen free
- Essential for situations where it is of strategic importance to ensure that the cable continues to function during a major crisis involving fire



MICA Glass / XLPE / LSF with Screen Cores of stranded copper conductors, MICA glass

taped and XLPE insulated. Cores bunched and screened with Mylar® aluminium tape and drain wire. LSF sheathed overall.



MICA Glass / XLPE / LSF with Screen and Armour

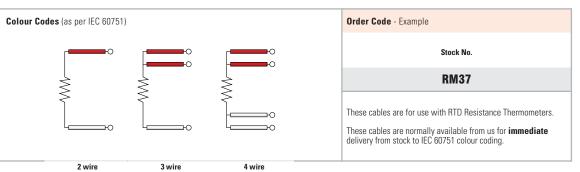
Cores of stranded copper conductors, MICA glass taped and XLPE insulated. Cores bunched and screened with Mylar® aluminium tape and drain wire. LSF sheathed. Steel wire armoured and LSF sheathed overall.

		Stock Number	RM37	RM67	RM37/SWA	RM67/SWA	
s	Conductor Style		Stra	nded	Stranded		
CONDUCTORS	No. of Strands / S	trand Diameter (mm)	7/0.3	7/0.3	7/0.3	7/0.3	
	Total Area (mm ²)		0.5	0.5	0.5	0.5	
	Total AWG (S = St	tranded)	20S 20S		20S	20S	
C	Insulation	Insulation		nd XLPE	MICA and XLPE		
s	Number of Cores		3	6	3	6	
CORES	Laid Flat or Twist	ed	Twi	sted	Twisted		
C	Screen*		Y	es	Yes		
	Insulation		L	SF	LSF		
	Insulation	Continuous	-30 t	o +75	-30 to +75		
	Rating (°C)	Short Term	+7	/50	+750		
_	Colour Coding		Y	es	Yes		
OVERALL		Abrasion Resistance	Go	ood	Good		
NE	Physical Properties	Moisture Resistance	Very Good		Very	Good	
0		Typical Weight (Kg/100m) (excluding reel)	10	13	32	50	
	Diameter under A	Diameter under Armour (mm)		_	8	11	
	Diameter over Arr	mour (mm)		_	10	13	
	Overall Diameter	[†] (mm)	8	11	13	16	
Notes		Excellent for signal contin Free of Halogens. Round electromagnetic and elec		e. Excellent for signal continuity in the event of a fi 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 above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



PVC Insulated Multi Triads and Multi Quads RTD Cables -30°C to +105°C

- Incorporates Heat Resistant (HR) PVC suitable for use in the temperature range -30°C to +105°C
- Extremely useful where there is a need to run a number of RTD signals back to instrumentation
- 7/0.2mm (0.22mm²) diameter conductors PVC insulated and grouped in triads or quads with overall copper wire braid and overall PVC sheath



Multi Triad PVC Insulated

Triads of stranded copper conductors. Triads HR PVC insulated. Triads bunched together. Tinned copper wire braided. HR PVC sheathed overall.



Multi Quad PVC Insulated

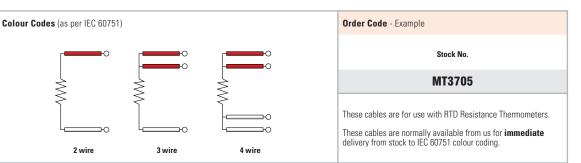
Quads of stranded copper conductors. Quads HR PVC insulated. Quads bunched together. Tinned copper wire braided. HR PVC sheathed overall.

		Stock Number	MT3705	MT3710	MT3715	MT4705	MT4710	MT4715		
s	Conductor Style		Stranded			Stranded				
CONDUCTOR	No. of Strands / Strand Diameter (mm)		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		
	Total AWG (S = Stranded)		24S	24S	24S	24S	24S	24S		
ວ	Insulation		Heat Resistant PVC			Heat Resistant PVC				
s	Number of Cores		5 x 3	10 x 3	15 x 3	5 x 4	10 x 4	15 x 4		
CORES	Laid Flat or Twis	Laid Flat or Twisted		Twisted			Twisted			
ວ	Screen*		Yes			Yes				
	Insulation		Heat Resistant PVC			Heat Resistant PVC				
	Insulation Continuous		-30 to +105			-30 to +105				
	Rating (°C)	Short Term								
_	Colour Coding		Yes				Yes			
MLI		Abrasion Resistance	Good			Good				
OVERALL	Physical Properties	Moisture Resistance		Very Good		Very Good				
0		Typical Weight (Kg/100m) (excluding reel)	13	22	29	16	27	38		
	Diameter under	-	_			_				
	Diameter over A	rmour (mm)	_			_				
	Overall Diamete	r [†] (mm)	10	13	15	11	15	17		
		Notes	Rejects electromagnet	ic and electrostatic inter	ference. Round section.	Rejects electromagnet	ic and electrostatic inter	ference. Round sectio		

* 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 above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.





PO Box 130 Uxbridge UB8 2YS United Kingdom Tel: 01895 252222 International: +44 1895 252222 Email: info@tc.co.uk Web: www.tc.co.uk

© TC Ltd. Issue Number: 0221

TC Ltd for Temperature Sensing, Measurement and Control