

RTD Cables for use with Resistance Thermometers



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

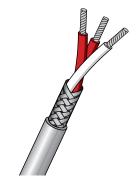
4 core: 2 cores red and 2 cores white

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



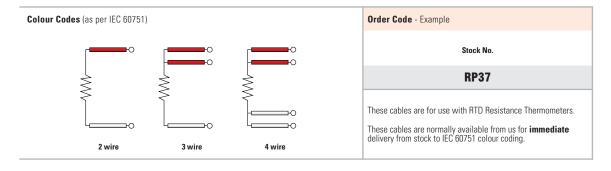
Heat Resistant PVC Insulated with Metal Braid

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 / Strand Diameter (mm)		7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	13/0.2	13/0.2	
CONDUCTORS	Total Area (mm²	²)	0.22	0.22	0.22	0.22	0.22	0.44	0.44	
NO	Total AWG (S =	Stranded)	24S	24S	S24	S24	24S	21S	21S	
ວັ	Insulation				Hea	nt Resistant I	PVC			
s	Number of Core	s	2	3	4	6	8	3	4	
CORES	Laid Flat or Twisted		Twisted							
2	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 Armour (mm)		_							
	Diameter over Armour (mm)		_							
	Overall Diameter [†] (mm)		4	4	5	6	7	5	6	
		Notes	Ideal for gene interference. I	ral use in norma Round section.	al ambient appl	ications. Reject	s electromagne	etic and electros	static	

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

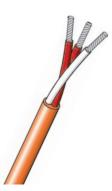
The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



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

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

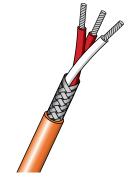
- 2, 3, 4, 6 or 8 cores of 7/0.2mm diameter twisted conductors overall PFA sheath for use up to 250°C. Tinned copper braid and Mylar® aluminium tape screen option.
- Cores colour coded:-
 - 2 core: 1 cores red and 1 core white 3 core: 2 cores red and 1 core white
 - 4 core: 2 cores red and 2 cores white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



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

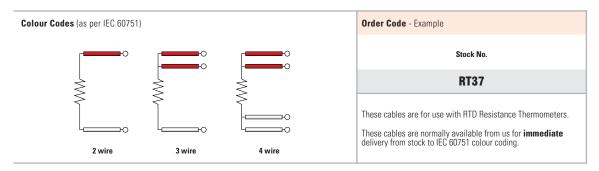


PFA Insulated with Metal Braid Cores of stranded copper conductors. Cores PFA insulated. Cores bunched together. Nickel plated copper wire braided. PFA sheathed overall.

	Stock Number	RT38	RT48	RT39	RT49	RT69	RT27	RT37	RT47	RT67	RT82	RT87
Conductor Style		Stranded		Stranded		Stranded						
No. of Strands / Strand 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
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
Total AWG (S = S	Stranded)	24S	26S	30S	30S	30S	24S	24S	24S	24S	30S	24S
Insulation		PFA		PFA				PI	A			
Number of Cores	:	3	4	3	4	6	2	3	4	6	8	8
Laid Flat or Twis	ted	Twi	sted	Twisted		Twisted						
Screen*		N	lo		Yes				Y	es		
Insulation		Thin PFA		PFA		PFA						
Insulation Continuous Rating (°C) Short Term	Continuous	-75 to +250		-75 to +250		-75 to +250						
	Short Term	+3		+300		+300						
Colour Coding		Yes			Yes		Yes					
	Abrasion Resistance	Good		Very Good		Very Good						
Physical Properties	Moisture Resistance	Go	Good			Very Good			Very Good			
Торогио	Typical Weight (Kg/100m) (excluding reel)	1	2	1	1.1	1.5	3	2	2	3	3	5
Diameter under A	Diameter under Armour (mm)		_		_		_					
Diameter over Armour (mm)		_		_		_						
Overall Diameter	r [†] (mm)	2.1	2.1	2.2	2.6	2.8	3	3	3	4	3	5
Notes						;						iagnetic
	No. of Strands / 3 Total Area (mm² Total AWG (S = S Insulation Number of Cores Laid Flat or Twis Screen* Insulation Insulation Rating (°C) Colour Coding Physical Properties Diameter under A	Conductor Style No. of Strands / Strand Diameter (mm) Total Area (mm²) Total AWG (S = Stranded) Insulation Number of Cores Laid Flat or Twisted Screen* Insulation Insulation Rating (°C) Colour Coding Abrasion Resistance Physical Properties Moisture Resistance Typical Weight (Kg/100m) [excluding reel) Diameter under Armour (mm) Diameter over Armour (mm) Overall Diameter † (mm)	No. of Strands / Strand Diameter (mm) 7/0.2	Conductor Style Stranded	No. of Strands / Strand Diameter (mm) 7/0.2 7/0.15 7/0.1	No. of Strands / Strand Diameter (mm) 7/0.2 7/0.15 7/0.1 7/0.1	No. of Strands / Strand Diameter (mm) 7/0.2 7/0.15 7/0.1 7/0.1 7/0.1 Total Area (mm²) 0.22 0.124 0.05 0.05 0.05 Total AWG (S = Stranded) 24S 26S 30S 30S 30S Insulation PFA PFA Number of Cores 3 4 3 4 6 Laid Flat or Twisted Twisted Twisted Screen* No Yes Insulation Thin PFA PFA Insulation Continuous -75 to +250 -75 to +250 Rating (°C) Short Term +300 +300 Colour Coding Yes Yes Physical Properties Moisture Resistance Good Very Good Physical Weight (Kg/100m) 1 2 1 1.1 1.5 Diameter under Armour (mm) — — Diameter over Armour (mm) 2.1 2.1 2.2 2.6 2.8 Notes Round section. Rejects Rejects electromagnetic Rejects electromagnetic Rejects Rejects electromagnetic Rejects electromagnetic Rejects Rejects electromagnetic Notes Round section. Rejects Rejects electromagnetic Rejects electromagnetic Rejects Rejects Rejects electromagnetic Rejects electromagnetic Rejects Rejects	No. of Strands / Strand Diameter (mm) 7/0.2 7/0.15 7/0.1 7/0.1 7/0.2	Stranded Stranded Stranded No. of Strands / Strand 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	No. of Strands / Strand Diameter (mm) 7/0.2 7/0.15 7/0.1 7/0.1 7/0.1 7/0.2 7/0	No. of Strands Stranded Stranded Stranded Stranded No. of Strands No. of Strands No. of Strands No. of Strands No. of Stranded No	Stranded Stranded Stranded Stranded Stranded No. of Strands / Strand 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 7/0.2 7/0.1

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.

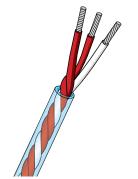
The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751 These cables are normally available from us for immediate delivery from stock.



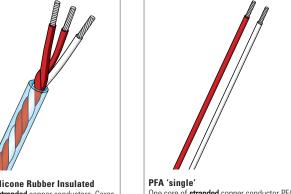
These values are nominal and if critical to your application, please request a physical check.

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



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





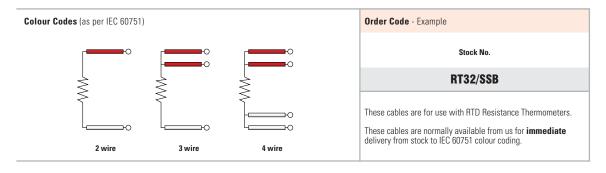
PFA Insulated with Stainless Steel Braid Cores of stranded copper conductors. PFA insulated and bunched together with overall stainless steel braid.

RT32/SSB	RT37/SSB						
Strai	nded						
7/0.1	7/0.2						
0.05	0.22						
30S	24S						
PFA							
3	3						
Twis	sted						
Ye	es						
PF	-A						
-75 to	+250						
+3	00						
Υe	es						
Very	Good						
Very	Good						
1	2						
_	-						
_							
2	2.6						
Rejects electromagnetic and electrostatic interference. Round section.							

		Stock Number	RS37	RS47	RS67	RS87		
00	Conductor Style	•	Stranded					
	No. of Strands	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 =	Stranded)	24S	24S	24S	24S		
	Insulation			PI	-A			
S	Number of Core	es	3	4	6	8		
CORES	Laid Flat or Twi	Twisted						
၁	Screen*		No					
	Insulation	Silicone Rubber						
	Insulation	Continuous	-40 to +200					
	Rating (°C)	Short Term	-50 to +250					
_	Colour Coding	Yes						
OVERALL		Abrasion Resistance	Good					
)VE	Physical Properties	Moisture Resistance	V		Very Good			
٥		Typical Weight (Kg/100m) (excluding reel)	2	3	3	4		
	Diameter under	_						
	Diameter over I	_						
	Overall Diamet	er [†] (mm)	4	4	5	5		
		Notes	Rejects ele		tight insula tic and elec ection.			

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

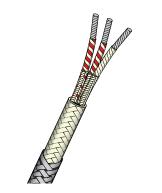
The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



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

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



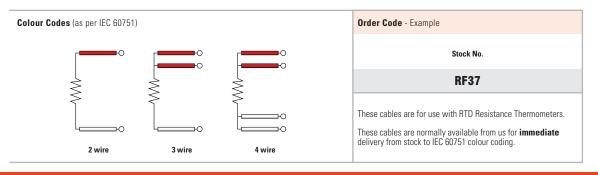
Fibreglass Insulated with Stainless Steel Braid

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			
)RS	No. of Strands /	Strand Diameter (mm)	7/0.2	7/0.2	7/0.2		
CONDUCTORS	Total Diameter (mm)	0.5	0.5	0.5		
N D D	Total Area (mm²)	0.22	0.22	0.22		
00	Total AWG (S = S	Stranded)	24S	24S	24S		
	Insulation			Fibreglass			
S	Number of Cores	3	3	4	6		
CORES	Laid Flat or Twis	sted		Twisted			
ပ	Screen*			Yes			
	Insulation		Fibreglass				
	Insulation Rating (°C)	Continuous	+480				
		Short Term	+540				
_	Colour Coding		Yes				
OVERALL		Abrasion Resistance	Good				
VE	Physical Properties	Moisture Resistance		None			
J		Typical Weight (Kg/100m) (excluding reel)	2	3	4		
	Diameter under	Armour (mm)					
	Diameter over A	rmour (mm)	_				
	Overall Diamete	r [†] (mm)	3	4	+480 +540 Yes Good None 3 4		
		Notes	maintained to t	he upper insulatio	on rating limit		

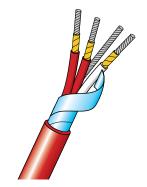
- Where cables incorporate a metal braid, the braid can be used as a screen.
- † These values are nominal and if critical to your application, please request a physical check.

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.

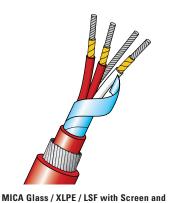


XLPE Insulated Twisted with Screen (Low Smoke and Fume) -30°C to +75°C

- 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.

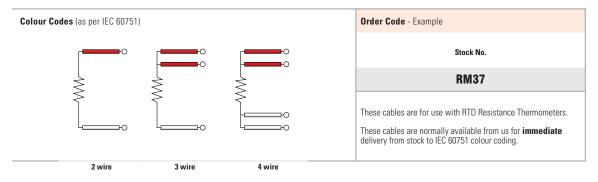


Armour
Cores of stranded copper conductors, MICA glass taped and XLPE insulated. Cores bunched and screened with Mylar® aluminium tape and drain wire. LSF sheathed. Steel wire armoured and LSF sheathed overall.

		Stock Number	RM37	RM67	RM37/SWA	RM67/SWA	
S	Conductor Style		Stra	nded	Stranded		
TOR	No. of Strands / S	trand Diameter (mm)	7/0.3	7/0.3	7/0.3	7/0.3	
CONDUCTORS	Total Area (mm²)		0.5	0.5	0.5	0.5	
ONE	Total AWG (S = St	tranded)	20S	20S	20S	20S	
2	Insulation		MICA a	nd XLPE	MICA and XLPE		
S	Number of Cores		3	6	3	6	
CORES	Laid Flat or Twist	ed	Twi	sted	Twisted		
ပ	Screen*		Y	es	Υ	es	
	Insulation		LS	SF	LSF		
	Insulation	Continuous	-30 to	o +75	-30 to +75		
	Rating (°C)	Short Term	+7	750	+7	750	
_	Colour Coding		Y	es	Yes		
OVERALL		Abrasion Resistance	Go	ood	Good		
VEI	Physical Properties	Moisture Resistance	Very Good		Very Good		
0		Typical Weight (Kg/100m) (excluding reel)	10	13	32	50	
	Diameter under Armour (mm)		_	_	8	11	
	Diameter over Armour (mm)		_	_	10	13	
	Overall Diameter	t (mm)	8	11	13	16	
		Notes	Excellent for signal continuing Free of Halogens. Round electromagnetic and electromag		Excellent for signal conti Free of Halogens. Round electromagnetic and elec Armoured for mechanical	trostatic interference.	

 ^{*} Aluminised Mylar® tape in contact throughout by a bare 7/0.3mm diameter tinned copper drainwire.

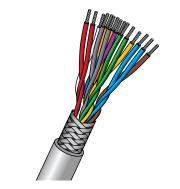
The above cables where applicable have cores which are colour coded in accordance with IEC 60751:2008 and BS EN 60751. These cables are normally available from us for immediate delivery from stock.



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

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 guads 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

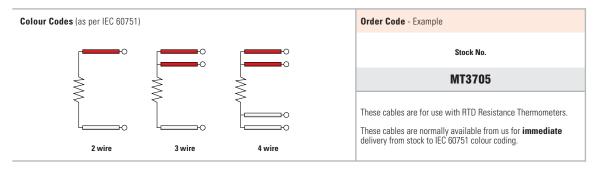


Multi Quad PVC Insulated Quads of stranded copper conductors. Quads HR PVC insulated. Quads bunched together. Tinned copper wire braided. HR PVC sheathed overall.

		Stock Number	MT3705	MT3710	MT3715	MT4705	MT4710	MT4715	
S	Conductor Style		Stranded			Stranded			
CONDUCTORS	No. of Strands / Strand Diameter (mm)		7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	7/0.2	
nc	Total Area (mm²)	0.22	0.22	0.22	0.22	0.22	0.22	
	Total AWG (S = S	Stranded)	24S	24S	24S	24S	24S	24S	
ప	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	ted		Twisted		Twisted			
ప	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		
3ALI		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 A	Diameter under Armour (mm)		_			_		
	Diameter over A	Diameter over Armour (mm)		_			_		
	Overall Diameter	r [†] (mm)	10	13	15	11	15	17	
		Notes	Rejects electromagnet	c and electrostatic inter	ference. Round section.	Rejects electromagnet	ic and electrostatic inter	ference. Round section	

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

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.



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



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