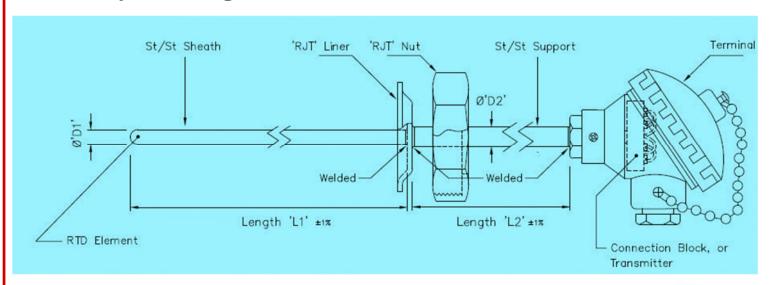




ENGLISH

Datasheet

Platinum Resistance Pt100 Hygienic Thermometer, 1.5" RJT style fitting



RJT unions (Ring Joint Type) are often referred to as a standard union. The compromise of an O-ring style gasket which leaves a small crevice where the liner and male part of the union overlap.

Ideal for hygienic processes including dairy, brewery and pharmaceutical applications.

Specification

Sensor Type: Pt100, 3 or 4 wire single element class A

Connection Type: RJT 316SS nut and liner

Terminal Head: KNE

Transmitter: Optional SEM-203p transmitter, ranged -50°C to +150°C

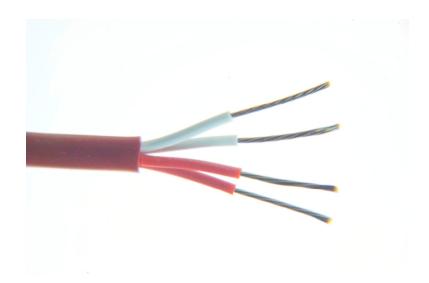
Sensor Type	Sheath Diameter (D1)	Sheath Length (L1)	Support Diameter (D2)	Support Length (L2)	Transmitter Fitted	RS Order Code
Pt100, 4 wire	6.0mm	75mm	8.0mm	50mm	No	872-2764
Pt100, 4 wire	6.0mm	125mm	8.0mm	50mm	No	872-2767
Pt100, 3 wire	6.0mm	75mm	8.0mm	50mm	Yes	872-2761
Pt100, 3 wire	6.0mm	125mm	8.0mm	50mm	Yes	872-2770

Need RTD Cable or Pt100/Pt1000 Detectors?

RS200/0816

RTD Extension Cable – 4 core (10 or 25 metre reel)

Platinum Resistance Thermometer Extension Cable - Silicone Rubber Insulated



- Silicone rubber insulated cable for extending Platinum Resistance Thermometers
- Can be used to extend up to 4 wire RTD configurations
- Commonly used with Pt100 Ω thermometers but suitable with other types Pt130/500/1000 Ω etc.
- 4 core silicone rubber insulated 7/0.2mm tin plated copper conductors, twisted together with silicone rubber outer jacket
- Cores colour coded 2 x Red / 2 x White to IEC-751
- Good electrical and mechanical properties, highly flexible, resistant to oils, acids and other adverse fluids
- Good heat resistance up to 200°C
- Insulation rating -40°C to 200°C
- Supplied in 10 or 25 metre reel lengths

Туре	Conductors	mm²	Cores (4 core)	Jacket	Reel Length	Allied Code	RS order Code
RTD	7/0.2mm	0.219	2x Red / 2 x White	_	10 metres	70657147	827-5823
RTD	7/0.2mm	0.219	2x Red / 2 x White		25 metres	70644361	455-4242

Overall sheath Dimension (approx.)

4.0mmØ

RTD Extension Cable – 4 & 6 core PFA

Platinum Resistance Thermometer Extension Cable, PFA insulated & screened





4 core (cores: 2 x red / 2 white)

6 core (cores: 4 x red / 2 x white)

- PFA insulated cable for extending Platinum Resistance Thermometers
- High temperature to 260°C, extruded PFA Teflon® construction
- Commonly used for Pt100 Ω thermometers, also suitable with other types such as Pt130, Pt500 & Pt1000 Ω
- 4 & 6 core available to extend 2, 3 or 4 wire RTD configurations, the 6 core can be used to extend 2 x 3 wire duplex (dual element) configurations
- Construction PFA insulated 7/0.2mm tin plated copper conductors, twisted cores with nylon cord, tin plated copper braided screen with PFA insulated outer jacket
- Cores colour coded Red & White in accordance with IEC-751, black outer jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Insulation rating -75°C to 260°C
- See below for available reel lengths

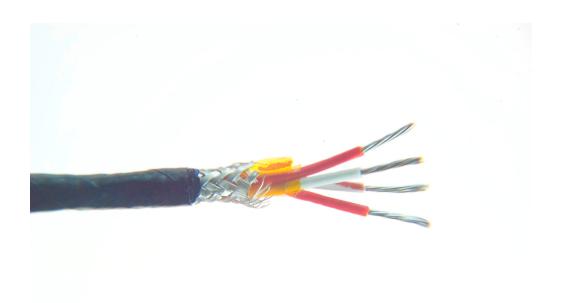
Type order	Conductors code	mm²	Cores	Screen	Jacket	Reel Len	gth	Allied (Code	RS
RTD	7/0.2mm	0.219	x 4	Yes	Black 10 met	res 7	06461	.75	611-8	078
RTD	7/0.2mm	0.219	x 4	Yes	Black 25 met	res 7	06461	.76	611-8	090
RTD	7/0.2mm	0.219	x 4	Yes	Black 50 met	res 7	06571	.48	827-5	827
RTD	7/0.2mm	0.219	x 4	Yes	Black 100 me	etres 7	06571	.50	827-5	836
RTD	7/0.2mm	0.219	x 6	Yes	Black 25 met	res 7	06461	.77	611-8	107
RTD	7/0.2mm	0.219	x 6	Yes	Black 50 met	res 7	06571	.51	827-5	839

Overall sheath Dimension (approx.)

4 core: 3.2mmØ 6 core: 3.8mmØ

RTD Extension Cable – 4 core PTFE (10 & 25 reel lengths)

Platinum Resistance Thermometer Extension Cable, PTFE insulated & screened



- PTFE insulated cable for extending Platinum Resistance Thermometers
- High temperature to 260°C, wrapped PTFE tape construction
- Can be used to extend 2, 3 or 4 wire RTD configurations
- Commonly used for Pt100 Ω thermometers, also suitable with other types such as Pt130, Pt500 & Pt1000 Ω
- 4 core PTFE insulated 7/0.2mm silver plated copper conductors, twisted cores, Mylar tape, silver plated copper braided screen with PTFE insulated outer jacket
- Cores colour coded 2 x Red / 2 x White to IEC-751 + black outer jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids, steam, gasses etc.
- Insulation rating -75°C to 260°C
- Supplied in 10, & 25 metre reel lengths

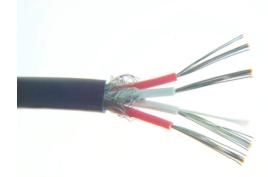
Туре	Conductors	mm²	Cores (4 core)	Screen	Jacket Reel Length	Allied Code	RS order code
RTD	7/0.2mm	0.219	2x Red/2x White	Yes	Black 10 metres	70644773	492-9775
RTD	7/0.2mm	0.219	2x Red/2x White	Yes	Black 25 metres	70642885	290-4976

Overall sheath Dimension (approx.)

3.5mmØ

RTD Extension Cable – 4 core PVC (10, 25 & 50 reel lengths)

Platinum Resistance Thermometer Extension Cable, PVC insulated & screened



- PVC insulated cable for extending Platinum Resistance Thermometers
- Can be used to extend 2, 3 or 4 wire RTD configurations
- Commonly used for Pt100 Ω thermometers but also suitable with other types such as Pt130, Pt500 & Pt1000 Ω
- 4 core PVC insulated 7/0.2mm tin plated copper conductors, twisted cores, polyester tape & nylon cord, tin plated copper braided screen with PVC insulated outer jacket
- Cores colour coded 2 x Red / 2 x White to IEC-751 with black outer jacket
- Heat resistant PVC to 105°C
- Good for general purpose cable, highly flexible & waterproof
- Insulation rating -10°C to 105°C
- Supplied in 10, 25 & 50 metre reel lengths

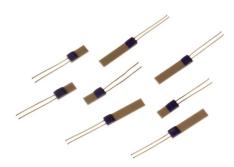
Туре	Conductors	mm²	Cores (4 core)	Screen	Jacket Reel Length	Allied Code	RS order code
RTD	7/0.2mm	0.219	2x Red/2x White	Yes	Black 10 metres	70644772	492-9753
RTD	7/0.2mm	0.219	2x Red/2x White	Yes	Black 25 metres	70642884	290-4954
RTD	7/0.2mm	0.219	2x Red/2x White	Yes	Black 50 metres	70646179	611-8129

Overall sheath Dimension (approx.)

4.4mmØ

Platinum Resistance Pt100 & Pt1000 Thin Film Detectors Platinum

Sensing Resistors – Thin Film (Pt100 & Pt1000 Ohm)



Pt100 Elements, Thin Film (100 Ohm)

- Pt100 elements to IEC751 Class A, B and 1/3DIN
- For use from –50°C to +500°C
- Thin film construction
- Suitable for surface & immersion applications where protected
- Vibration resistant

Specifications:

Sensor type: Pt100 (100 Ohms @ 0°C) Construction: Thin film, 10mm tails Temperature range: -50° C to $+500^{\circ}$ C

Ice point resistance: 100Ω

Fundamental interval (0°C to 100°C): 38.5 Ω (nominal) Self-heating: <0.5°C/mW

Thermal response: 0.1s Stability: ±0.05%

1.2 x 1.6mm

Resistance	Dimensions (width x length)	Tolerance Class	Allied code	RS order code			
Pt100	2 x 5.0mm	Class A	70646146	611-7788			
Pt100	2 x 5.0mm	Class B	70646148	611-7801			
Pt100	2 x 5.0mm	Class B	70642888	290-5070 (Packet of 5)			
Pt100	2 x 10mm	Class A	70643577	362-9799			
Pt100	2 x 10mm	Class B	70641762	237-1607			
Pt100	2.0 x 10mm	1/3DIN	70643578	362-9812			
Pt100	2.0 x 2.3mm	Class A	70643579	362-9834			
Pt100	2.0 x 2.3mm	Class B	70643580	362-9840			
Pt100	2.0 x 2.3mm	1/3DIN	70643581	362-9856			
Pt100 Elements (continued)							
Resistance Pt100	Dimensions (width x length) 1.2 x 1.6mm	Tolerance Class Class A	Allied code 70646834	RS order code 666-7362			

Class B

70646831

666-7353

RS200/0816

Pt100

Pt100	1.0 x 3.0mm	Class A	70646833	666-7359
Pt100	1.0 x 3.0mm	Class B	70646832	666-7356
Pt100	2.0 x 5.0mm	1/3 Din	70656467	814-0162
Pt100	1.2 x 4.0mm	Class B	70656468	814-0165
Pt100	1.2 x 4.0mm	Class A	70656469	814-0169

Pt1000 Elements, Thin Film (1000 Ohm)

- Pt1000 elements to IEC 751 Class A and B
- For use from –50°C to +500°C
- Thin film construction
- Suitable for surface & immersion applications where protected
- Vibration resistant

Specifications:

Sensor type: Pt1000 (1000 Ohms @0°C)
Construction: Thin film, 10mm tails
Temperature range: -50°C to +500°C

Ice point resistance: 1000Ω

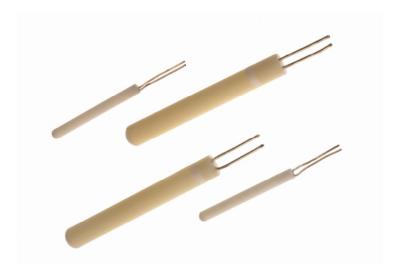
Fundamental interval (0°C to 100°C): 385 Ω (nominal) Self-heating: <0.5oC/mW

Thermal response: 0.1s Stability: ±0.05%

Resistance	Dimensions (width x length)	Tolerance Class	Allied code	RS order code
Pt1000	2.0 x 10.0mm	Class A	70643582	362-9907
Pt1000	2.0 x 10.0mm	Class B	70643583	362-9913
Pt1000	2.0 x 10.0mm	1/3 Din	70656472	814-0178
Pt1000	1.0 x 3.0mm	Class B	70656470	814-0171
Pt1000	1.25 x 1.7mm	Class B	70656471	814-0175

Resistance Pt100 Wire-Wound Detector Elements

Pt100 platinum resistance thermometer elements in a choice of sizes – single & dual element



- Pt100 elements to IEC 60751 Class A or B
- 100Ω Ohms @ 0°C
- Single or dual element
- Platinum coil wire-wound construction sealed inside a high purity alumina ceramic body
- Optimum performance & stability
- Temperature range –200°C to +650°C

Specifications:

Sensor type: Pt100 (100 Ohms @ 0°C)
Construction: Wire-Wound, 10mm tails

Temperature range: -200°C to +650°C

Ice point resistance: 100Ω

Fundamental interval (0°C to 100°C): 38.5 Ω (nominal) Self-heating: 0.02 to 0.3°C/mW

Thermal response: <0.4s (secs. to 63% of final value – in water @ 1m/s)

Measuring current: 1mA

Tolerance Class: In accordance with IEC 60751

W0.15 (Class A) -100°C to +450°C W0.3 (Class B) -196°C to +660°C

Continued:

Single element:

Resistance	Tolerance Class	Diameter ('D')	Length ('L')	Allied code	RS order code		
Pt100	Class B	1.5mm	8mm	70646153	611-7851		
Pt100	Class A	1.5mm	8mm	70646155	611-7873		
Pt100	Class B	1.5mm	15mm	70646154	611-7867		
Pt100	Class A	1.5mm	15mm	70646151	611-7839		
Pt100	Class B	2.8mm	15mm	70646150	611-7823		
Pt100	Class A	2.8mm	15mm	70646152	611-7845		
Pt100	Class B	2.8mm	25mm	70646147	611-7794		
Pt100	Class A	2.8mm	25mm	70646149	611-7817		
Dual element:							
Pt100 (x2)	Class A	1.5mm	15mm	70643873	397-1595		

