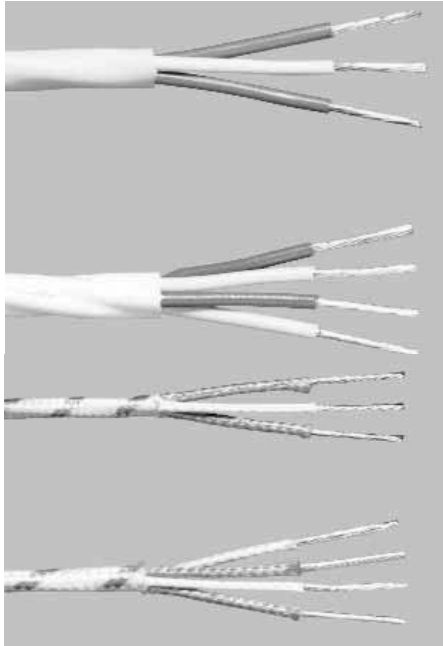


SERV-RITE Wire and Cable

RTD Lead Wire SERIES 701, 704 and 705



Watlow's quality, experience and versatility carry over from insulated thermocouple and extension wire to RTD Lead Wire and fiberglass wire.

PVC

Continuous Use Temp.	Single Use Temp.
105°C (220°F)	105°C (220°F)

Resistance Properties		
Moisture	Chemical	Abrasion
Excellent	Good	Good

FEP

Continuous Use Temp.	Single Use Temp.
204°C (400°F)	260°C (500°F)

Resistance Properties		
Moisture	Chemical	Abrasion
Excellent	Excellent	Excellent

Fiberglass

Continuous Use Temp.	Single Use Temp.
480°C (900°F)	540°C (1000°F)

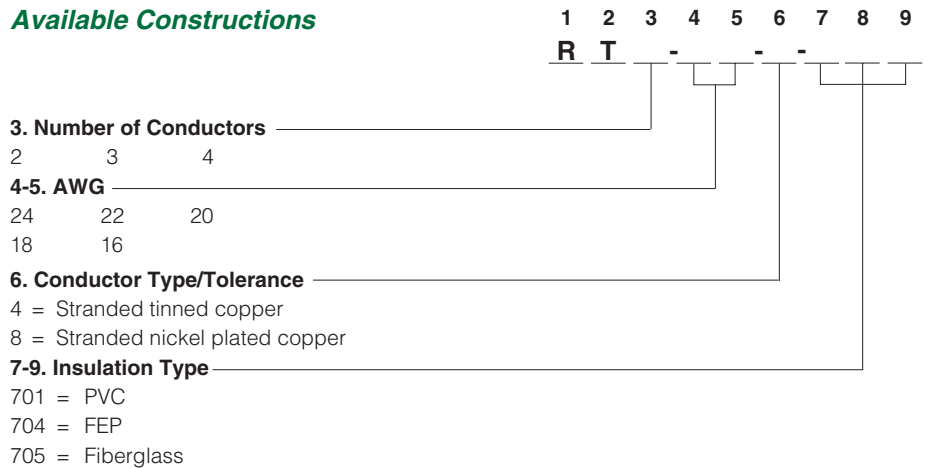
Resistance Properties		
Moisture	Chemical	Abrasion
Good	Good	Fair

Popular Constructions

No. of Conductors	AWG	Wire Type*	Insulation Material		
			PVC (220°F)	FEP (400°F)	Fiberglass (900°F)
2	22	Tinned copper	RT2-22-4-701	RT2-22-4-704	RT2-22-4-705
		Nickel plated copper	RT2-22-8-701	RT2-22-8-704	RT2-22-8-705
	24	Tinned copper	RT2-24-4-701	RT2-24-4-704	RT2-24-4-705
		Nickel plated copper	RT2-24-8-701	RT2-24-8-704	RT2-24-8-705
3	22	Tinned copper	RT3-22-4-701	RT3-22-4-704	RT3-22-4-705
		Nickel plated copper	RT3-22-8-701	RT3-22-8-704	RT3-22-8-705
	24	Tinned copper	RT3-24-4-701	RT3-24-4-704	RT3-24-4-705
		Nickel plated copper	RT3-24-8-701	RT3-24-8-704	RT3-24-8-705
4	22	Tinned copper	RT4-22-4-701	RT4-22-4-704	RT4-22-4-705
		Nickel plated copper	RT4-22-8-701	RT4-22-8-704	RT4-22-8-705
	24	Tinned copper	RT4-24-4-701	RT4-24-4-704	RT4-24-4-705
		Nickel plated copper	RT4-24-8-701	RT4-24-8-704	RT4-24-8-705

Note: Bolded products are stocked and shipped in 100, 250, 500 and 1000 foot spools.

Available Constructions



Note: Minimum order sizes apply for non-stock constructions.

Performance Capabilities

- Continuous temperature rating 105 to 480°C (220 to 900°F) depending upon construction
- Available with optional metallic overbraid for additional abrasion resistance

Applications

- General use RTD sensor wire

SERV-RITE Wire and Cable

RTD Lead Wire

SERIES 701, 704 and 705

Wire Specifications - SERIES 701 - PVC

No. of Conductors	AWG	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Size		Approximate Shipping Weight	
				Conductor		Overall					
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/1000 ft	(kg/km)
2	22S** (7/30)	0.030	(0.762)	0.015	(0.381)	0.020	(0.508)	0.160	(4.06)	17	(25.3)
	20S** (7/28)	0.038	(0.965)	0.015	(0.381)	0.020	(0.508)	0.176	(4.47)	19	(28.3)
	18S** (7/26)	0.048	(1.22)	0.020	(0.508)	0.025	(0.635)	0.226	(5.74)	22	(32.8)
3	22S** (7/30)	0.030	(0.762)	0.015	(0.381)	0.020	(0.508)	0.172	(4.37)	20	(29.8)
	20S** (7/28)	0.038	(0.965)	0.015	(0.381)	0.020	(0.508)	0.190	(4.83)	25	(37.3)
	18S** (7/26)	0.048	(1.22)	0.020	(0.508)	0.025	(0.635)	0.244	(6.20)	30	(44.7)
4	22S** (7/30)	0.030	(0.762)	0.015	(0.381)	0.020	(0.508)	0.184	(4.67)	23	(34.3)
	20S** (7/28)	0.038	(0.965)	0.015	(0.381)	0.020	(0.508)	0.204	(5.18)	30	(44.7)
	18S** (7/26)	0.048	(1.22)	0.020	(0.508)	0.025	(0.635)	0.262	(6.65)	37	(55.1)

* 24 and 16 gauge constructions also available, consult factory for details.

** "S" denotes stranded wire: e.g., "22 S (7/30)" is seven strands of 30 gauge wire to make a 22 gauge stranded conductor.

Wire Specifications - SERIES 704 - FEP

No. of Conductors	AWG	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Size		Approximate Shipping Weight	
				Conductor		Overall					
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lbs/1000 ft	(kg/km)
2	24S* (7/32)	0.024	(0.610)	0.008	(0.203)	0.012	(0.305)	0.118	(3.00)	12	(17.9)
	22S* (7/30)	0.030	(0.762)	0.008	(0.203)	0.012	(0.305)	0.130	(3.30)	14	(20.9)
	20S* (7/28)	0.038	(0.965)	0.008	(0.203)	0.012	(0.305)	0.146	(3.71)	17	(25.3)
3	24S* (7/32)	0.024	(0.610)	0.008	(0.203)	0.012	(0.305)	0.126	(3.20)	16	(23.8)
	22S* (7/30)	0.030	(0.762)	0.008	(0.203)	0.012	(0.305)	0.140	(3.56)	20	(29.8)
	20S* (7/28)	0.038	(0.965)	0.008	(0.203)	0.012	(0.305)	0.158	(4.01)	24	(35.8)
4	24S* (7/32)	0.024	(0.610)	0.008	(0.203)	0.012	(0.305)	0.136	(3.46)	19	(28.3)
	22S* (7/30)	0.030	(0.762)	0.008	(0.203)	0.012	(0.305)	0.150	(3.81)	23	(34.3)
	20S* (7/28)	0.038	(0.965)	0.008	(0.203)	0.012	(0.305)	0.170	(4.32)	27	(40.2)

* "S" denotes stranded wire: e.g., "24 S (7/32)" is seven strands of 32 gauge wire to make a 24 gauge stranded conductor.

Wire Specifications - SERIES 705 - Fiberglass

No. of Conductors	AWG	Nominal Conductor Size		Nominal Insulation Thickness				Nominal Overall Size		Approximate Shipping Weight	
				Conductor		Overall					
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	kg/km	(lbs/1000 ft)
2	24S* (7/32)	0.024	(0.610)	0.005	(0.127)	0.006	(0.152)	0.080	(2.03)	6	(8.9)
	22S* (7/30)	0.030	(0.762)	0.005	(0.127)	0.006	(0.152)	0.092	(2.34)	7	(10.4)
	20S* (7/28)	0.038	(0.965)	0.006	(0.152)	0.006	(0.152)	0.112	(2.84)	9	(13.4)
3	24S* (7/32)	0.024	(0.610)	0.005	(0.127)	0.006	(0.152)	0.086	(2.18)	8	(11.9)
	22S* (7/30)	0.030	(0.762)	0.005	(0.127)	0.006	(0.152)	0.098	(2.49)	9	(13.4)
	20S* (7/28)	0.038	(0.965)	0.006	(0.152)	0.006	(0.152)	0.120	(3.05)	12	(17.9)
4	24S* (7/32)	0.024	(0.610)	0.005	(0.127)	0.006	(0.152)	0.092	(2.34)	10	(14.9)
	22S* (7/30)	0.030	(0.762)	0.005	(0.127)	0.006	(0.152)	0.106	(2.69)	12	(17.9)
	20S* (7/28)	0.038	(0.965)	0.006	(0.152)	0.006	(0.152)	0.130	(3.30)	16	(23.8)

* "S" denotes stranded wire: e.g., "24 S (7/32)" is seven strands of 32 gauge wire to make a 24 gauge stranded conductor.