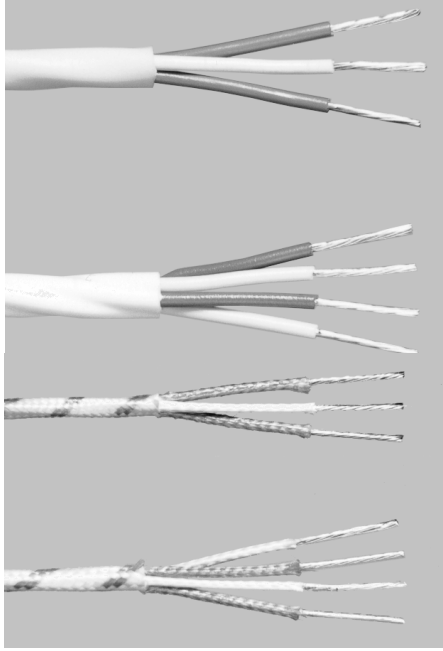


# SERV-RITE Wire and Cable

## 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)

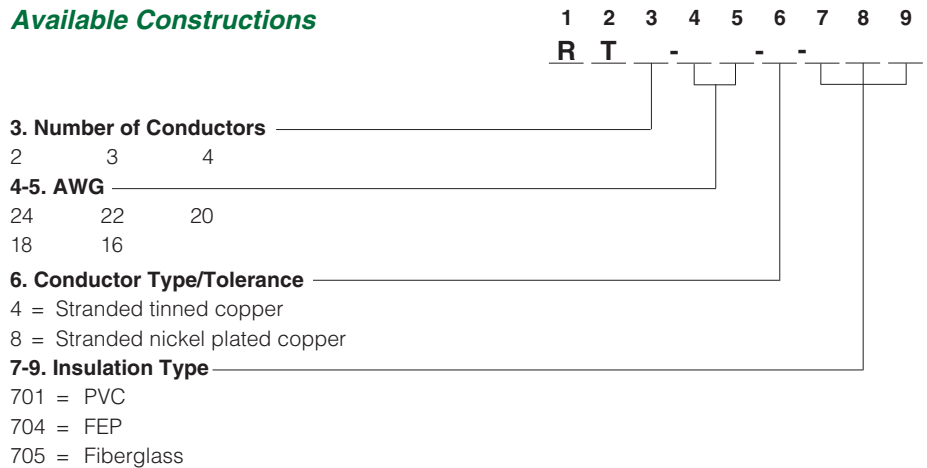
Resistance Properties		
Moisture	Chemical	Abrasion
Good	Good	Fair

### 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	<b>RT3-22-4-701</b>	RT3-22-4-704	RT3-22-4-705
		Nickel plated copper	RT3-22-8-701	<b>RT3-22-8-704</b>	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	<b>RT3-24-8-705</b>
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)	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)	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)	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.