

Standard length spools are in 50 ft. increments. Non-standard lengths are available at an extra charge.

### Duplex - ASTM/ANSI Type J

ASTM/ANSI Color Code: Negative wire, red; Positive wire, white; Overall brown, with Tracer where possible.

CODE	AWG.	CONDUCTOR	INSULATIONS			LIMITS OF ERROR	NOMINAL SIZE (inches)	WEIGHT per 1000 FT. (pounds)
			EACH CONDUCTOR	OUTER JACKET	OVERALL			
J18 - 3 - 313	18	Strd.	Glass braid	Glass braid		Std.	0.090 x 0.150	18
J20 - 1 - 304	20	Solid	Glass braid	Glass braid		Std.	0.059 x 0.097	8
J20 - 1 - S - 304	20	Solid	Glass braid	Glass braid	Stainless overbraid	Std.	0.080 x 0.119	17
J20 - 2 - 304	20	Solid	Glass braid	Glass braid		Spl.	0.059 x 0.097	8
J20 - 1 - 305	20	Solid	Glass wrap	Glass braid		Std.	0.054 x 0.095	8
J20 - 1 - 314	20	Solid	High-temp. glass braid	None - twisted		Std.	0.120	8
J20 - 2 - 321	20	Solid	High-temp. glass braid	High-temp. glass braid		Spl.	0.085 x 0.140	15
J20 - 1 - 507	20	Solid	Teflon® (FEP) extruded	Teflon® (FEP) extruded		Std.	0.072 x 0.124	11
J20 - 1 - 508	20	Solid	Fused Teflon® (TFE) tape	Fused Teflon® (TFE) tape		Std.	0.059 x 0.100	10
J20 - 2 - 513	20	Solid	Fused Kapton® tape	Fused Kapton® tape		Spl.	0.065 x 0.100	11
J20 - 3 - S - 302	20	Strd.	Double glass braid	Glass braid	Stainless overbraid	Std.	0.093 x 0.140	16
J20 - 3 - 304	20	Strd.	Glass braid	Glass braid		Std.	0.072 x 0.132	9
J20 - 3 - 507	20	Strd.	Teflon® (FEP) extruded	Teflon® (FEP) extruded		Std.	0.077 x 0.128	12
J20 - 3 - S - 507	20	Strd.	Teflon® (FEP) extruded	Teflon® (FEP) extruded	Stainless overbraid	Std.	0.092 x 0.144	15
J20 - 3 - 512	20	Strd.	Kapton®	Kapton®		Std.	0.055 x 0.1020	11
J24 - 1 - 304	24	Solid	Glass braid	Glass braid		Std.	0.047 x 0.081	4
J24 - 1 - S - 305	24	Solid	Glass wrap	Glass braid	Stainless overbraid	Std.	0.067 x 0.095	9
J24 - 1 - 508	24	Solid	Fused Teflon® (TFE) tape	Fused Teflon® (TFE) tape		Std.	0.047 x 0.078	5
J24 - 2 - 513	24	Solid	Fused Kapton® tape	Fused Kapton® tape		Spl.	0.060 x 0.085	6
J24 - 3 - 304	24	Strd.	Glass braid	Glass braid		Std.	0.043 x 0.082	8
J24 - 3 - S - 305	24	Strd.	Glass wrap	Glass braid	Stainless overbraid	Std.	0.074 x 0.104	11
J24 - 3 - 507	24	Strd.	Teflon® (FEP) extruded	Teflon® (FEP) extruded		Std.	0.065 x 0.110	8
J24 - 3 - 595	24	Strd.	FEP Teflon®	FEP Teflon®/Stainless OB	FEP Teflon®	Std.	0.145	17
J28 - 1 - 305	28	Solid	Glass wrap	Glass braid		Std.	0.036 x 0.057	3
J30 - 1 - 304	30	Solid	Glass braid	Glass braid		Std.	0.037 x 0.059	3
J30 - 2 - 506	30	Solid	Teflon® (FEP) extruded	Teflon® (FEP) extruded		Spl.	0.030 x 0.050	4

### Type J Thermocouple and Extension Wire Conductor Specifications

WIRE GAUGE	CONDUCTOR DIAMETER		OHMS PER DOUBLE FOOT	
	SOLID (inches)	STRANDED (inches)	SOLID (ohms)	STRANDED (ohms)
14	0.0641		0.086	
16	0.0508	0.0600	0.137	0.125
18		0.0490		0.185
20	0.0320	0.0390	0.357	0.343
24	0.0201	0.0250	0.877	0.842
28	0.0126		2.216	
30	0.0100		3.520	

Kapton® and Teflon® are registered trademarks of E. I. du Pont de Nemours and Company.