

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	PART NUMBER	AWG.	CONDUCTOR	INSULATIONS			LIMITS OF ERROR	NOMINAL SIZE (inches)	WEIGHT per 1000 FT. (pounds)
				EACH CONDUCTOR	OUTER JACKET	OVERALL			
J20 - 1 - 304	13937	20	Solid	Glass braid	Glass braid		Std.	0.059 x 0.097	8
J20 - 1 - S - 304	13948	20	Solid	Glass braid	Glass braid	Stainless overbraid	Std.	0.080 x 0.119	17
J20 - 2 - 304	13952	20	Solid	Glass braid	Glass braid		Spl.	0.059 x 0.097	8
J20 - 1 - 305	13938	20	Solid	Glass wrap	Glass braid		Std.	0.054 x 0.095	8
J20 - 1 - 314	13940	20	Solid	High-temp. glass braid	None - twisted		Std.	0.120	8
J20 - 2 - 321	13953	20	Solid	High-temp. glass braid	High-temp. glass braid		Spl.	0.085 x 0.140	15
J20 - 1 - 507	13944	20	Solid	FEP extruded	FEP extruded		Std.	0.072 x 0.124	11
J20 - 1 - 508	13945	20	Solid	Fused TFE tape	Fused TFE tape		Std.	0.059 x 0.100	10
J20 - 2 - 513	13955	20	Solid	Fused Polyimide tape	Fused Polyimide tape		Spl.	0.065 x 0.100	11
J20 - 3 - S - 302	13963	20	Strd.	Double glass braid	Glass braid	Stainless overbraid	Std.	0.093 x 0.140	16
J20 - 3 - 304	13958	20	Strd.	Glass braid	Glass braid		Std.	0.072 x 0.132	9
J20 - 3 - 507	13960	20	Strd.	FEP extruded	FEP extruded		Std.	0.077 x 0.128	12
J20 - 3 - S - 507	13966	20	Strd.	FEP extruded	FEP extruded	Stainless overbraid	Std.	0.092 x 0.144	15
J20 - 3 - 512	13962	20	Strd.	Polyimide	Polyimide		Std.	0.055 x 0.1020	11
J24 - 1 - 304	13976	24	Solid	Glass braid	Glass braid		Std.	0.047 x 0.081	4
J24 - 1 - S - 305	13982	24	Solid	Glass wrap	Glass braid	Stainless overbraid	Std.	0.067 x 0.095	9
J24 - 1 - 505	13979	24	Solid	Polyvinyl	None (ripcord constr.)		Std.	0.048 x 0.086	3
J24 - 1 - 508	13981	24	Solid	Fused TFE tape	Fused TFE tape		Std.	0.047 x 0.078	5
J24 - 2 - 513	13987	24	Solid	Fused polyimide tape	Fused polyimide tape		Spl.	0.060 x 0.085	6
J24 - 3 - 304	13989	24	Strd.	Glass braid	Glass braid		Std.	0.043 x 0.082	8
J24 - 3 - S - 305	13994	24	Strd.	Glass wrap	Glass braid	Stainless overbraid	Std.	0.074 x 0.104	11
J24 - 3 - 507	13990	24	Strd.	FEP extruded	FEP extruded		Std.	0.065 x 0.110	8
J24 - 3 - 595	20143	24	Strd.	FEP	FEP/Stainless OB	FEP	Std.	0.145	17
J30 - 1 - 304	14000	30	Solid	Glass braid	Glass braid		Std.	0.037 x 0.059	3
J30 - 2 - 506	14002	30	Solid	FEP extruded	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	