

Thermocouple Wire - Duplex Insulated Iron-Constantan Duplex ANSI Type J

ANSI Color Code: Positive Wire, White; Negative Wire, Red; Overall, Brown

NEWPORT Electronics does not use reprocessed PFA, FEP, or PVC in manufacturing thermocouple wire.



Insulation ¹	Model #	AWG	Type Wire	Insulation		Max. Temp		Nominal Size	Wt.† lb/1000'
				Conductor	Overall	°F	°C		
Ceramic**	XC-J-14	14	Solid	Nextel Ceramic		1100	590	.140 x .200	38
	XC-J-20	20				900	480	.135 x .190	16
	XT-J-20	20						.105 x .155	15
	XL-J-20	20						.095 x .135	14
	XC-J-24	24				700	370	.115 x .175	12
	XT-J-24	24						.088 x .132	11
	XL-J-24	24						.078 x .116	10
Silica*	XS-J-14	14	Solid	Silica		1100	590	.140 x .200	35
	XS-J-20	20				900	480	.105 x .155	12
	XS-J-24	24				700	370	.088 x .132	10
High Temp. Glass**	HH-J-20	20	Solid	High Temp. Glass		900	480	.060 x .105	9
	HH-J-24	24				700	370	.055 x .090	5
Glass	GG-J-14	14	Solid	Glass Braid		900	480	.060 x .095	9
	GG-J-20	20	Solid					.060 x .100	9
	GG-J-20S	20	7 X 28			.050 x .080	5		
	GG-J-24	24	Solid			.050 x .085	5		
	GG-J-24S	24	7 X 32	Glass Wrap	Glass Braid	700	370	.045 x .075	4
	GG-J-28	28	Solid					.040 x .055	3
	GG-J-30	30	Solid			.037 x .050	3		
	GG-J-36	36	Solid			.033 x .045	2		
PFA Glass	TG-J-30	30	Solid	PFA	Glass Braid	500	260	.034 x .047	2
	TG-J-36	36						.028 x .038	2
	TG-J-40	40						.026 x .035	2
PFA High Performance	TT-J-20	20	Solid	PFA		500	260	.068 x .116	11
	TT-J-20S	20	7 X 28					.073 x .126	11
	TT-J-22S	22	7 X 30					.065 x .133	9
	TT-J-24	24	Solid					.056 x .093	6
	TT-J-24S	24	7 X 32					.063 x .102	6
	TT-J-30††	30	Solid					.024 x .040	2
	TT-J-36††	36	Solid					.019 x .030	2
	TT-J-40††	40	Solid					.017 x .026	2
FEP	FF-J-20	20	Solid	FEP		392	200	.068 x .116	11
	FF-J-24	24						.056 x .092	5
Polyvinyl	PR-J-24	24	Solid	Polyvinyl	Rip Cord***	221	105	.050 x .085	5
	PR-J-24S	24	7 X 32		Polyvinyl			.082 x .134	5

¹ Additional Type J insulated wires are available. See Fused Tape Insulated **TFE-J** and **KK-J** Series.

†Weight of spool and wire rounded up to the next highest lb. (does not include packing material).

††Overall color clear

*Has color tracers on jacket and conductors.

**Has trace thread in Positive leg, Negative leg is red, overall has trace thread.

*** Two insulated leads bonded together, but with no overjacket.

Some wires available with Special Limits of Error; consult Sales for pricing and availability.

Ceramic Weave Note:	
XC	standard ceramic insulation with maximum insulation density.
XT	more tightly woven with reduced insulation density.
XL	loosely woven with the minimum insulation density.



NEWPORT can cover any insulated wire in our handbook with metal overbraiding to protect against wear and abrasion. **Overbraiding** adds durability and electrical shielding for improved performance.

Part Number	Description
GG-J-24-50	50 ft, Glass Insulated, 24 AWG, Type J
GG-J-20-1000	1000 ft, Glass Insulated, 20 AWG, Type J
TG-J-36-1000	1000 ft, PFA Glass, 36 AWG, Type J
TT-J-24-100	100 ft, PFA Insulated, 24 AWG, Type J
TT-J-24S-500	500 ft, PFA Insulated, Stranded 24 AWG, Type J
PR-J-24-100	100 ft, Polyvinyl (Rip Cord)***, 24 AWG, Type J

Part Number Builder

(1) (2) (3)
HH -J- 20 - 25

Option Descriptions

(1) Insulation

Select

HH for High Temp Glass (20 & 24 AWG Only)

GG for Glass

TG for PFA and Glass

TT for Neoflon PFA (High Performance)

FF for Neoflon FEP (20 & 24 AWG Only)

PP for Polyvinyl (24 Gauge Stranded Only)

PR for Polyvinyl Rip Cord (24 AWG Only)

XC for Ceramic(14 20 24 AWG Only)

XT for Ceramic(20 & 24 AWG Only)

XL for Ceramic(20 & 24 AWG Only)

XS for Silica (14 20 24 AWG Only)

(2) Gage

Select

20 for 20 AWG

20S for 20 AWG (Stranded)

24 for 24 AWG

24S for 24 AWG (Stranded)

28 for 28 AWG

30 for 30 AWG

36 for 36 AWG

40 for 40 AWG

(3) Spool Length

Select

25 for 25 Feet

50 for 50 Feet

100 for 100 Feet

200 for 200 Feet

500 for 500 Feet

1000 for 1000 Feet

NOTE: All combinations may not be valid, check spec sheet for valid part numbers.