

## K TYPE

Wire Gauge	Insulation	Solid/Stranded	Nominal Size	Part Number
20	Fiberglass	Solid	.054 x .096"	K20-2-305
20	High Temp Fiberglass	Solid	.082 x .140"	K20-2-321
20	Fluoropolymer FEP	Solid	.072 x .124"	K20-2-507
20	Fluoropolymer TFE	Solid	.060 x .104"	K20-2-508
20	Fluoropolymer FEP / Shielded	Solid	.132"	K20-2-509
20	Polyimide	Solid	.084"	K20-2-511
20	Polyimide	Solid	.052 x .094"	K20-2-513
20	Fiberglass / SS Overbraid	Solid	.074 x .116"	K20-2-S-321
20	High Temp Fiberglass SS Overbraid	Solid	.102 x .140"	K20-2-302
20	Fiberglass	Stranded	.068 x .122"	K20-4-507
20	Fluoropolymer FEP	Stranded	.078 x .106"	K20-4-509
20	Fluoropolymer FEP / Shielded	Stranded	.144"	K20-4-513
20	Polyimide	Stranded	.058 x .106"	K20-4-302
20	Fiberglass / SS Overbraid	Stranded	.088 x .142"	K20-4-S-302
20	Polyimide / SS Oberbraid	Stranded	.078 x .126"	K20-4-S-513
22	Fiberglass	Stranded	.052 x .092"	K22-4-305
22	Fluoropolymer FEP	Stranded	.070 x .120"	K22-4-507
24	Fiberglass	Solid	.042 x .072"	K24-2-305
24	High Temp Fiberglass	Solid	.072 x .120"	K24-2-321
24	PVC Ripcord	Solid	.050 x .096"	K24-2-505
24	Fluoropolymer FEP	Solid	.060 x .100"	K24-2-507
24	Fluoropolymer TFE	Solid	.048 x .080"	K24-2-508
24	Polyimide	Solid	.054 x .076"	K24-2-513
24	Fluoropolymer PFA	Solid	.068 x .116"	K24-2-516
24	Fiberglass / SS	Solid	.068 x .100"	K24-2-S-305
24	Fluoropolymer FEP	Stranded	.060 x .100"	K24-4-507
24	Fluoropolymer TFE	Stranded	.052 x .088"	K24-4-508
24	Fluoropolymer FEP / SS Overbraid	Stranded	.084 x .128"	K24-4-S-507
28	Fiberglass	Solid	.040 x .062"	K28-2-305
30	Fiberglass	Solid	.036 x .046"	K30-2-305
30	Fluoropolymer FEP	Solid	.030 x .050"	K30-2-506
30	Polyimide	Solid	.044 x .056"	K30-2-513
36	Fluoropolymer FEP	Solid	.025 x .040"	K36-2-506

## T TYPE

Wire Gauge	Insulation	Solid/Stranded	Nominal Size	Part Number
20	Fiberglass	Solid	.054 x .096"	T20-2-305
20	Fluoropolymer FEP	Solid	.072 x .124"	T20-2-507
20	Fluoropolymer TFE	Solid	.060 x .104"	T20-2-508
20	Polyimide / SS Overbraid	Stranded	.078 x .126"	T20-4-S-513
22	Fiberglass	Stranded	.052 x .092"	T22-4-305
24	Fiberglass	Solid	.042 x .072"	T24-2-305
24	PVC Ripcord	Solid	.050 x .096"	T24-2-505
24	Fluoropolymer FEP	Solid	.060 x .100"	T24-2-507
24	Fluoropolymer TFE	Solid	.048 x .080"	T24-2-508
30	Fluoropolymer FEP	Solid	.030 x .050"	T30-2-506
36	Fluoropolymer FEP	Solid	.025 x .040"	T36-2-506

# THERMOCOUPLE WIRE

## E TYPE

Wire Gauge	Insulation	Solid/Stranded	Nominal Size	Part Number
20	Fiberglass / SS Overbraid	Solid	.088 x .142"	E20-2-S-302
20	Fiberglass / SS Overbraid	Stranded	.088 x .142"	E20-4-S-302
20	Polyimide	Stranded	.070 x .112"	E20-4-513
20	Polyimide / SS Overbraid	Stranded	.090 x .132"	E20-4-S-513

## J TYPE

Wire Gauge	Insulation	Solid/Stranded	Nominal Size	Part Number
20	Fiberglass	Solid	.054 x .096"	J20-2-305
20	Fiberglass / SS Overbraid	Stranded	.088 x .142"	J20-4-S-302
20	Fluoropolymer FEP	Solid	.072 x .124"	J20-2-507
20	Fluoropolymer TFE	Solid	.060 x .104"	J20-2-508
20	Fluoropolymer FEP / Shielded	Stranded	.144"	J20-4-509
20	Polyimide	Solid	.084"	J20-2-511
20	Polyimide	Stranded	.058 x .106"	J20-4-513
20	Polyimide / SS Overbraid	Stranded	.078 x .126"	J20-4-S-513
22	Fiberglass	Stranded	.052 x .092"	J22-4-305
22	Fluoropolymer FEP / Shielded	Stranded	.130"	J22-4-509
24	Fiberglass	Solid	.042 x .072"	J24-2-305
24	PVC Ripcord	Solid	.050 x .096"	J24-2-505
24	Fluoropolymer FEP	Solid	.060 x .100"	J24-2-507
24	Fluoropolymer TFE	Solid	.048 x .080"	J24-2-508
24	Fluoropolymer FEP / Shielded	Solid	.108"	J24-2-509
24	Polyimide	Solid	.060"	J24-2-511
24	Fluoropolymer FEP	Stranded	.060 x .100"	J24-4-507
28	Fiberglass	Solid	.040 x .062"	J28-2-305
30	Fluoropolymer FEP	Solid	.030 x .050"	J30-2-506
30	Fiberglass	Solid	.036 x .056"	J30-2-305

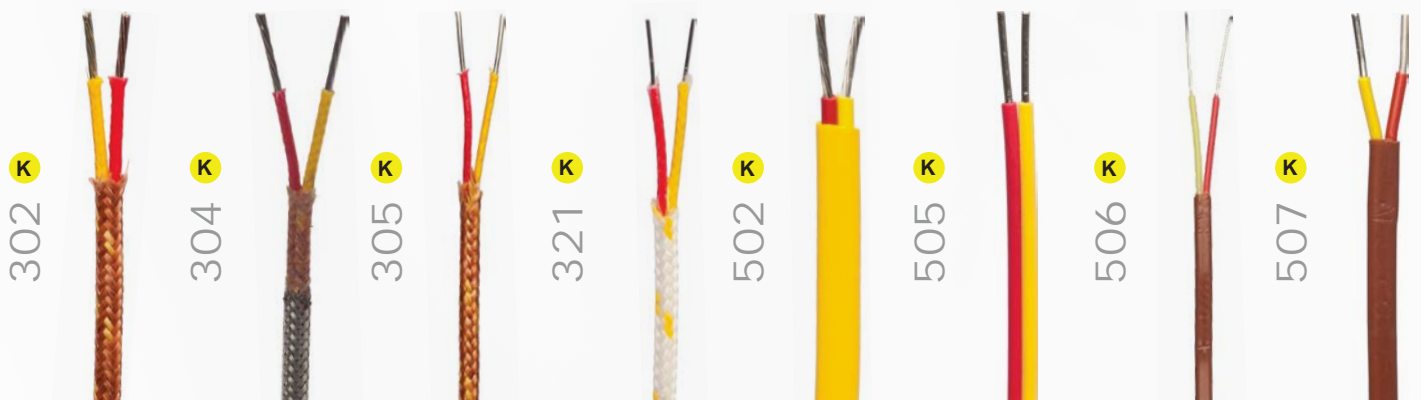
## Thermocouple Extension Wire

Wire Gauge	Insulation	Solid/Stranded	Nominal Size	Part Number
20	PVC Type E	Solid	.092 x .154"	E20-6-502
20	PVC Type J	Solid	.092 x .154"	J20-6-502
20	PVC Type J	Stranded	.080 x .133"	J20-8-502-005
24	PVC Type J	Stranded	.050 x .091"	J24-8-502-005
20	PVC Type T	Solid	.092 x .154"	T20-6-502
20	PVC Type T	Stranded	.080 x .133"	T20-8-502-003
24	PVC Type T	Stranded	.050 x .091"	T24-8-502-003
20	PVC Type K	Solid	.092 x .154"	K20-6-502
20	PVC Type K	Stranded	.080 x .133"	K20-8-502-002
24	PVC Type K	Stranded	.050 x .091"	K24-8-502-002

*Multi-pair extension cable available.*

	SINGLE CONDUCTOR		DUPLEX CONDUCTORS		TEMPERATURE RATING**		ANSI	PHYSICAL PROPERTIES		
	Insulation	Impregnation	Insulation	Impregnation	Continuous	Single Reading	Color Coded	Abrasion Resistance	Moisture Resistance	Chemical Resistance
<b>302</b>	PFA	-	PFA	-	260 °C 500 °F	288 °C 550 °F	Yes	Good	Excellent	Excellent
<b>304</b>	Glass Braid	Silicone Modified Resin	Glass Braid	Silicone Modified Resin	482 °C 900°F	538 °C 1000 °F	Yes	Fair	Good	Good
<b>305</b>	Double Glass Wrap	Silicone Modified Resin	Glass Braid	Silicone Modified Resin	482 °C 900°F	538 °C 1000 °F	Yes	Fair	Good	Good
<b>321</b>	High Temp. Glass Braid	High Temp. Varnish	High Temp. Glass Braid	High Temp. Varnish	704 °C 1300°F	871 °C 1600 °F	Yes	Good	Good	Good
<b>502</b>	Polyvinyl	-	Polyvinyl	-	-29 to +105 °C -20 to +221°F	-	Yes	Good	Excellent	Good
<b>505</b>	Polyvinyl	-	Ripcord	-	-29 to +105 °C -20 to +221 °F	-	Yes	Good	Excellent	Good
<b>506</b>	FEP Extr.	-	FEP Extr.	-	204 °C 400 °F	260 °C 500 °F	Yes	Excellent	Excellent	Excellent
<b>507</b>	FEP Extr.	-	FEP Extr.	-	204 °C 400 °F	260 °C 500 °F	Yes	Excellent	Excellent	Excellent
<b>508</b>	TFE Tape Fused	-	TFE Tape Fused	-	260 °C 500 °F	316 °C 600 °F	Yes	Good	Excellent	Excellent
<b>509</b>	FEP Extr.	-	FEP Extr. Twisted	-	204 °C 400 °F	260 °C 500 °F	Yes	Excellent	Excellent	Excellent
<b>510</b>	Polyvinyl	-	Polyvinyl Twisted	-	-29 to +105 °C -20 to +221 °F	-	Yes	Good	Excellent	Good
<b>511</b>	Fused Polyimide Tape	-	None Twisted	-	316 °C 600 °F	427 °C 800 °F	Both Legs Have Tracer	Excellent	Excellent	Excellent
<b>512</b>	Fused Polyimide Tape	-	Fused Polyimide Tape	-	316 °C 600 °F	427 °C 800 °F	Both Legs Have Tracer	Excellent	Excellent	Excellent
<b>513</b>	Fused Polyimide Tape	-	Fused Polyimide Tape	-	316 °C 600 °F	427 °C 800 °F	Yes	Excellent	Excellent	Excellent
<b>516</b>	PFA	-	PFA	-	260 °C 500 °F	288 °C 550 °F	Yes	Good	Excellent	Excellent

Wire Examples Below in K



# WIRE CONSTRUCTION CHARACTERISTICS

EACH WIRE	OVERALL	COMMENTS	
Double Glass Braid	Glass Braid	Heavy-duty construction.	302
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Double Glass Wrap	Glass Braid	Light-duty applications small size.	305
High Temp Glass Braid	Glass Braid	White overall with yellow tracer.	321
PVC	PVC	Used for extension wire.	502
PVC	None	Individual wire insulated and fused.	505
Fluoropolymer FEP	Fluoropolymer FEP	Thin wall for small size wires.	506
Fluoropolymer FEP	Fluoropolymer FEP	Most economical fluoropolymer insulation.	507
Fluoropolymer TFE	Fluoropolymer TFE	High temperature fluoropolymer construction.	508
Fluoropolymer FEP	Fluoropolymer FEP	Twisted with Mylar shield and drain wire.	509
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Polyimide	None	Individual wire insulated and twisted.	511
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Polyimide	Polyimide	ANSI color-coded duplex construction.	513
Fluoropolymer PFA	Fluoropolymer PFA	High temperature extruded fluoropolymer.	516

Wire Examples Below in K.

