

Temperature

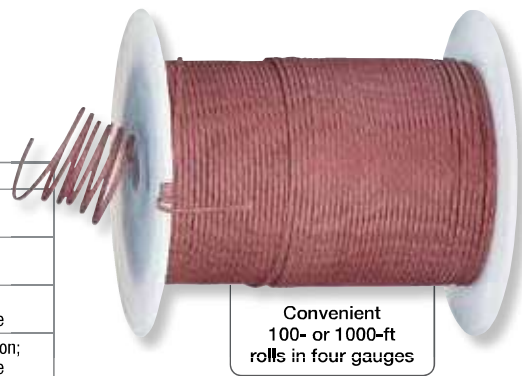
Need help selecting?
Free Tech Support !

Digi-Sense® Thermocouple Wire

Make your own extension cables

Wire comes in 30, 24, 20, or 16 gauge for fabricating your own probes or extension cables (meets ANSI and ASTM standards). Choose from wire with polyvinyl chloride (PVC), fluorinated ethylene propylene resin (FEP/FEP), fiberglass, high-temperature fiberglass, or ceramic fiber outer/inner insulation.

Insulation type (outer/inner)	Temperature range	Advantages
Polyvinyl	-20 to 221°F (-28 to 105°C)	Good moisture and abrasion resistance
FEP/FEP	-328 to 400°F (-200 to 204°C)	Excellent chemical and moisture resistance; very good abrasion resistance
Glass braid	-100 to 900°F (-73 to 482°C)	Excellent chemical and flame resistance; fair moisture resistance; good abrasion resistance
High-temp fiberglass braid	0 to 1400°F (-18 to 750°C)	Higher temperatures than regular fiberglass insulation; fair moisture resistance; good abrasion resistance
Ceramic fiber braid	0 to 2200°F (-18 to 1427°C)	Intermittent temperatures to 3000°F (1649°C); fair moisture and abrasion resistance



Convenient
100- or 1000-ft
rolls in four gauges

Wire type	Wire gauge	Wire temp rating (Max)	Inner insulation	Outer insulation	Stranded/ Solid	Over-braid	Special features	Catalog number	Price/rl of 100 ft	Catalog number	Price /rl of 1000 ft
J	20	221°F	Polyvinyl	Polyvinyl	Solid	No	—	GY-08541-16		GY-08542-15	
J	20	400°F	FEP	FEP	Solid	No	—	GY-08541-17		GY-08542-16	
J	20	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-18		GY-08542-17	
J	30	400°F	FEP	FEP	Solid	No	—	GY-08541-00		GY-08542-00	
J	30	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-01		GY-08542-01	
K	20	1300°F	High temp glass braid	High temp glass braid	Solid	No	Special limits of error (±4%)	GY-08541-23		GY-08542-22	
K	20	2200°F	Ceramic fiber braid	Ceramic fiber braid	Solid	No	—	GY-08541-24		GY-08542-23	
K	20	221°F	Polyvinyl	Polyvinyl	Solid	No	—	GY-08541-20		GY-08542-19	
K	20	221°F	Polyvinyl	Polyvinyl	Solid	No	BoPET shield and drain wire	GY-08541-48		GY-08542-41	
K	20	400°F	FEP	FEP	Solid	No	—	GY-08541-21		GY-08542-20	
K	20	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-22		GY-08542-21	
K	24	221°F	Polyvinyl	Polyvinyl	Solid	No	—	GY-08541-09		GY-08542-09	
K	24	400°F	FEP	FEP	Solid	No	—	GY-08541-10		GY-08542-10	
K	24	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-11		GY-08542-11	
K	30	400°F	FEP	FEP	Solid	No	Special limits of error (±4%)	GY-08541-02		GY-08542-02	
K	30	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-03		GY-08542-03	
T	20	221°F	Polyvinyl	Polyvinyl	Solid	No	—	GY-08541-25		GY-08542-24	
T	24	221°F	Polyvinyl	Polyvinyl	Solid	No	—	GY-08541-12		GY-08542-12	
T	24	221°F	Polyvinyl	Polyvinyl	Solid	No	—	GY-08541-45		GY-08542-38	
T	24	400°F	FEP	Glass braid	Solid	No	—	GY-08541-13		GY-08542-13	
T	24	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-14		GY-08542-14	
T	30	400°F	FEP	FEP	Solid	No	Special limits of error (±4%)	GY-08541-04		GY-08542-04	
T	30	900°F	Glass braid	Glass braid	Solid	No	—	GY-08541-05		GY-08542-05	

20-Gauge Extension Cables

- PVC/PVC insulation
- Maximum temperature: 221°F (105°C)

A 25-ft cable is available. Contact your local dealer for more information.



Type	10-ft length miniconnector cable		50-ft length miniconnector cable	
	Catalog number	Price	Catalog number	Price
J	GY-08517-30		GY-08517-50	
K	GY-08516-30		GY-08516-50	
T	GY-08505-30		GY-08505-50	

Coiled Extension Cables

Each coiled extension cable is ANSI color-coded with miniconnector on each end. Measure 5 ft (1.5 m) long when fully extended. Maximum temperature: 221°F (105°C).



Type	Connections	Cat. no.	Price
J	Male to female (plug to jack)	GY-93785-00	
K		GY-93785-02	
T		GY-93785-04	
J	Male to male (plug to plug)	GY-93785-10	
K		GY-93785-12	
T		GY-93785-14	

Digi-Sense® Thermocouple Connectors



Connectors withstand continuous temperature of 350°F (177°C) and maximum temperature of 400°F (204°C). Feature glass-filled nylon casing with finger grips and polarity indicators; negative terminals are marked with red discs for easy identification. Miniconnectors accept miniature cable clamps and cable up to 20 gauge; standard connectors accept standard cable clamps and cable up to 16 gauge.

Type	Connection	Color	Miniconnectors				Standard connectors			
			Pack of 10		Pack of 100		Pack of 10		Pack of 100	
			Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
J	Plug	Black	GY-93840-50		GY-93841-50		GY-93840-60		GY-93841-60	
J	Jack	Black	GY-93840-51		GY-93841-51		GY-93840-61		GY-93841-61	
K	Plug	Yellow	GY-93840-52		GY-93841-52		GY-93840-62		GY-93841-62	
K	Jack	Yellow	GY-93840-53		GY-93841-53		GY-93840-63		GY-93841-63	
T	Plug	Blue	GY-93840-54		GY-93841-54		GY-93840-64		GY-93841-64	
T	Jack	Blue	GY-93840-55		GY-93841-55		GY-93840-65		GY-93841-65	



Type K miniconnector jack and plug



Type J standard connector plug and jack