

Thermocouple Wire

968-039

Thermocouple Cable, Twisted Pair, Lightweight ArmorLite Braid, Jacketed

CABLE REQUIREMENTS

- Crosslinked Verification:
Temperature: 300 °C ± 5 °C
- Bend Test Temperature:
20 °C - 25 °C
- Voltage Withstand: 1000 V
- Conductor Continuity: Pass
- Identification: UV Laser Mark Part Number on Cable Jacket
- Cable Jacket Tensile Strength: 5000 psi Min
- Cable Jacket Elongation: 50% Min
- Cable Jacket Flaws: Spark Test - 1.5 kV High Frequency 3 kHz
- Cold Bend Low Temperature: -65°C ± 2°C For 4 Hours
- Shield Coverage: 85% Min

NOTES

- Consult factory for alternate cable configurations
- Cable shall be marked with Glenair, part number, CAGE 06324
- Braid options may limit peak operating temperature, see Table II
- Test methods per ANSI/NEMA WC 27500

HOW TO ORDER

Sample Part Number	968-039	-24	K	AC	23	23
Basic Part Number	968-039 Thermocouple Cable, Twisted Pair, Specialty Braid, Jacketed					
Conductor Size	22, 24, 26					
Thermocouple Conductor Type Code	K					
Shield Description	See Table II					
Wire Jacket Type	23 = Extruded XL-ETFE					
Cable Jacket Type	23 = Extruded XL-ETFE					

CABLE CONSTRUCTION EXAMPLE

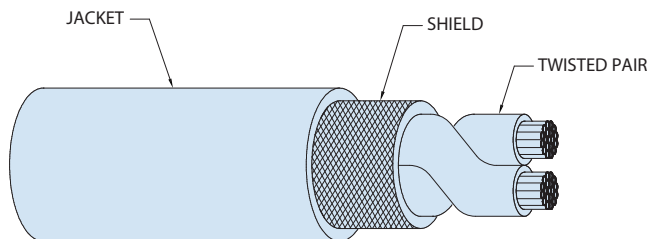


Table IV - Cable Jacket Type

Single Jacket Code	Jacket Material	Wall Thickness (Inches)	Concentricity Ratio
23	Extruded XL-ETFE	.005-.010	70% Min.

Table II - Shield Type

Single Shield Code	Shield Description	Shield Resistance	Shield Temp. Range
AC	Aarmorlite CF	68 mOhm/m Max	752°F Max (400°C)
AR	Aarmorlite	TBD mOhm/m Max	500°F Max (260°C)
T	Tin Plated Copper	TBD mOhm/m Max	302°F Max (150°C)
S	Silver Plated Copper	TBD mOhm/m Max	392°F Max (200°C)
N	Nickel Plated Copper	TBD mOhm/m Max	392°F Max (200°C)

Table I

Thermoconductor Type Code	Wire AWG (Stranding)	Leg	Outer Color of Primary Wire	Resistance of Conductor at 20°C (68°F) (Ohms/Ft)	Lay Length (Inches)	Ø Wire Stranded Conductor (Inches)		Ø Of Cable With AR, AC Shield (Inches)	Ø Of Cable With T, S, N Shield (Inches)	Jacket Color	Temperature Range	Max Cable Weight (Pounds Per 1000 Ft)	
				±10%		Min	Max				Max	AR, AC	T, N, S
K	26 (7 X 34)	Positive	Yellow	1.510	0.250 (6.35)	0.018 (0.46)	0.020 (0.51)	0.102 (2.59)	0.111 (2.82)	Green	392°F (200°C) See Note 3	5.55	7.75
	26 (7 X 34)	Negative	Red	0.619	0.250 (6.35)	0.018 (0.46)	0.020 (0.51)						
	24 (19 X 36)	Positive	Yellow	0.884	0.375 (9.53)	0.022 (0.56)	0.025 (0.64)	0.112 (2.84)	0.121 (3.07)	Green	392°F (200°C) See Note 3	7.37	9.82
	24 (19 X 36)	Negative	Red	0.362	0.375 (9.53)	0.022 (0.56)	0.025 (0.64)						
	22 (19 X 34)	Positive	Yellow	0.557	0.500 (12.70)	0.028 (0.71)	0.032 (0.81)	0.128 (3.25)	0.137 (3.48)	Green	392°F (200°C) See Note 3	9.85	12.70
	22 (19 X 34)	Negative	Red	0.228	0.500 (12.70)	0.028 (0.71)	0.032 (0.81)						