

Solid	8	.053 (1.35)	.064 (1.63)	.809 (20.5)	9.7 (247)	521 (237)	516 (768)
	12	.064 (1.63)	.074 (1.88)	.950 (24.1)	11.4 (290)	726 (330)	699 (1040)
	16	.064 (1.63)	.074 (1.88)	1.063 (27.0)	12.8 (324)	996 (453)	917 (1364)
	20	.064 (1.63)	.074 (1.88)	1.097 (27.9)	13.2 (334)	1171 (532)	1022 (1521)
	24	.074 (1.88)	.074 (1.88)	1.225 (31.1)	14.7 (373)	1386 (630)	1213 (1805)
	36	.074 (1.88)	.085 (2.16)	1.407 (35.7)	16.8 (427)	2054 (934)	1724 (2566)
18 AWG (1.02MM) Solid	1	.037 (0.94)	.042 (1.07)	.364 (9.2)	4.4 (111)	73 (33)	99 (147)
	4	.053 (1.35)	.053 (1.35)	.586 (14.9)	7.0 (179)	193 (88)	242 (360)
	8	.053 (1.35)	.064 (1.63)	.721 (18.3)	8.7 (220)	338 (154)	381 (567)
	12	.064 (1.63)	.064 (1.63)	.856 (21.7)	10.3 (261)	523 (238)	561 (834)
	16	.064 (1.63)	.074 (1.88)	.948 (24.1)	11.4 (289)	650 (295)	679 (1011)
	20	.064 (1.63)	.074 (1.88)	.976 (24.8)	11.7 (297)	760 (345)	751 (1118)
	24	.064 (1.63)	.074 (1.88)	1.100 (27.9)	13.2 (335)	975 (443)	956 (1422)
	36	.074 (1.88)	.074 (1.88)	1.198 (30.4)	14.4 (365)	1338 (608)	1231 (1831)
20 AWG (0.81MM) Solid	1	.037 (0.94)	.042 (1.07)	.348 (8.8)	4.2 (106)	56 (25)	89 (132)
	4	.042 (1.07)	.053 (1.35)	.531 (13.5)	6.4 (162)	144 (65)	199 (297)
	8	.053 (1.35)	.064 (1.63)	.676 (17.2)	8.1 (206)	248 (113)	313 (466)
	12	.053 (1.35)	.064 (1.63)	.779 (19.8)	9.3 (237)	379 (172)	446 (664)
	16	.064 (1.63)	.064 (1.63)	.865 (22.0)	10.4 (264)	467 (212)	531 (790)
	20	.064 (1.63)	.074 (1.88)	.911 (23.1)	10.9 (278)	543 (247)	615 (915)
	24	.064 (1.63)	.074 (1.88)	.994 (25.4)	11.9 (303)	630 (286)	721 (1073)
	36	.064 (1.63)	.074 (1.88)	1.120 (28.4)	13.4 (341)	937 (426)	996 (1481)

The products referenced above represent the most popular constructions. Other constructions can be manufactured to meet individual specification and application requirements. Contact factory for additional information.

Table 1

Initial Calibration Tolerances Per ASTM E230 and ANSI MC96.1

Thermocouple Type	Temperature Range F(C)	Grade Designation	Tolerance-Reference Junction 32F (0C)		
			Standard Grade Limits F(C)	Grade Designation	Special Grade Limits F(C)
Extension Wire					
TX	32 (0) to 212 (100)	TX	±1.8 (1)	TTX	±0.9 (0.5)
JX	32 (0) to 400 (200)	JX	±4 (2.2)	JJX	±2 (1.1)
EX	32 (0) to 400 (200)	EX	±3.1 (1.7)	EEX	±1.8 (1)
KX or NX	32 (0) to 400 (200)	KX or NX	±4 (2.2)	KKX or NNX	±2 (1.1)
Compensating Extension Wire					
RX or SX	32 (0) to 400 (200)	RX or SX	±9 (5)		

Electrical Characteristics

Insulation passes 3000 V ac spark test per UL Subject 13.
Completed cable passes a dielectric test of 2500 V dc for 10 seconds, conductor to conductor and conductor to shield, per UL Subject 13.



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