

Wire Size	Number of Pairs	Insulation Thickness		Outer Diameter		Bend Radius		Pull Tension		Net Weight	
		Inches	MM	Inches	MM	Inches	MM	LB	KG	LB/MF	(KG/KM)
16 AWG (1.29MM) Solid	4	0.053	1.35	0.536	13.6	4.3	109	192	87	166	248
	8	0.064	1.63	0.71	18.0	5.7	145	376	171	302	450
	12	0.064	1.63	0.835	21.2	6.7	170	560	254	441	658
	16	0.074	1.88	0.947	24.1	7.6	193	744	337	554	826
	20	0.074	1.88	1.024	26.0	8.2	208	928	421	669	998
	24	0.074	1.88	1.136	28.9	9.1	231	1112	504	818	1219
18 AWG (1.02MM) Solid	4	0.053	1.35	0.485	12.3	3.9	99	132	60	135	201
	8	0.053	1.35	0.641	16.3	5.1	130	256	116	241	359
	12	0.064	1.63	0.751	19.1	6	152	380	172	333	497
	16	0.064	1.63	0.831	21.1	6.6	168	504	229	438	653
	20	0.064	1.63	0.919	23.3	7.4	188	628	285	526	785
	24	0.074	1.88	1.017	25.8	8.1	206	752	341	617	920
20 AWG (0.81MM) Solid	4	0.053	1.35	0.448	11.4	3.6	91	92	42	110	164
	8	0.053	1.35	0.569	14.5	4.6	117	176	80	179	266
	12	0.064	1.63	0.689	17.5	5.5	140	260	118	264	393
	16	0.064	1.63	0.761	19.3	6.1	155	344	156	327	488
	20	0.064	1.63	0.823	20.9	6.6	168	428	194	413	616
	24	0.074	1.88	0.931	23.6	7.4	188	512	232	482	719
	36	0.074	1.88	1.034	26.3	8.3	211	764	347	661	985

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)	Tolerance-Reference Junction 32°F (0°C)			
		Grade Designation	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 3000V 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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