

| | | | | | | | | | | | |
|--------------------------------------|------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 18 AWG (1.02MM) Solid | 1 | .015 | (0.38) | .166 | (4.2) | 1.0 | (25) | 34 | (15) | 25 | (37) |
| | 2 | .020 | (0.51) | .295 | (7.5) | 1.8 | (45) | 60 | (28) | 50 | (74) |
| | 4 | .020 | (0.51) | .346 | (8.8) | 2.1 | (53) | 112 | (51) | 83 | (124) |
| | 8 | .020 | (0.51) | .452 | (11.5) | 2.7 | (69) | 216 | (98) | 143 | (213) |
| | 12 | .025 | (0.64) | .550 | (14.0) | 3.3 | (84) | 424 | (193) | 211 | (314) |
| | 16 | .025 | (0.64) | .614 | (15.6) | 3.7 | (94) | 528 | (240) | 272 | (405) |
| | 24 | .030 | (0.76) | .756 | (19.2) | 4.5 | (115) | 632 | (287) | 400 | (595) |
| 36 | .030 | (0.76) | .848 | (21.5) | 5.1 | (129) | 944 | (429) | 572 | (851) | |
| 20 AWG (0.81MM) Solid | 1 | .015 | (0.38) | .150 | (3.8) | 0.9 | (23) | 21 | (10) | 17 | (25) |
| | 2 | .020 | (0.51) | .265 | (6.7) | 1.7 | (40) | 40 | (18) | 35 | (52) |
| | 4 | .020 | (0.51) | .319 | (8.1) | 1.9 | (49) | 72 | (33) | 63 | (94) |
| | 8 | .020 | (0.51) | .412 | (10.5) | 2.5 | (63) | 136 | (62) | 102 | (152) |
| | 12 | .020 | (0.51) | .488 | (12.4) | 2.9 | (74) | 200 | (91) | 155 | (231) |
| | 16 | .025 | (0.64) | .544 | (13.8) | 3.3 | (83) | 264 | (120) | 195 | (290) |
| | 24 | .030 | (0.76) | .670 | (17.0) | 4.0 | (102) | 392 | (178) | 275 | (409) |
| 36 | .030 | (0.76) | .750 | (19.1) | 4.5 | (114) | 584 | (265) | 405 | (603) | |

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

| <u>Thermocouple Type</u> | <u>Temperature Range F(C)</u> | <u>Grade Designation</u> | <u>Tolerance-Reference Junction 32F (0C)</u> | | |
|------------------------------------|-------------------------------|--------------------------|--|--------------------------|----------------------------------|
| | | | <u>Standard Grade Limits F(C)</u> | <u>Grade Designation</u> | <u>Special Grade Limits F(C)</u> |
| <u>Extension Wire</u> | | | | | |
| 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) |
| <u>Compensating Extension Wire</u> | | | | | |
| RX or SX | 32 (0) to 400 (200) | RX or SX | ±9 (5) | | |

Electrical Characteristics

Insulation passes 3000 V ac spark test.
Completed cable passes a dielectric test of 1300 V dc for 60 seconds, conductor to conductor and conductor to shield.



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