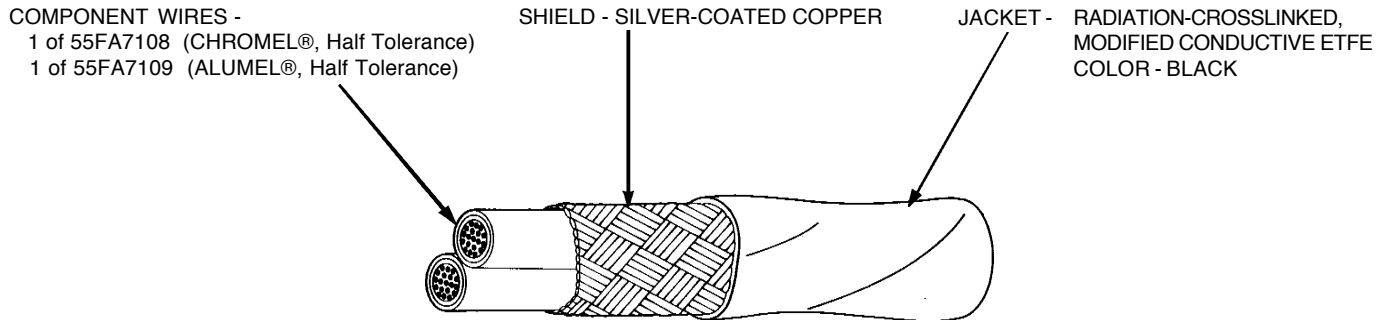


SPECIFICATION CONTROL DRAWING

55FB7110

| | | | | | |
|-------|--|------|--------|----------|---|
| TITLE | TWO CONDUCTOR, SHIELDED, JACKETED, FILTERLINE, ELECTROLOSS THERMOCOUPLE CABLE, SPECIAL LIMITS OF ERROR | Date | 5-5-06 | Revision | B |
|-------|--|------|--------|----------|---|

This specification sheet forms a part of the latest issue of Raychem Specification 55F.



| CABLE CONSTRUCTION DETAILS | | | | | | | |
|----------------------------|----------------------|-------------------|-------------------------|---------|-------------------------|---------|-----------------------------|
| PART NUMBER 1/ | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (inch) | | OUTSIDE DIAMETER (inch) | | MAXIMUM WEIGHT (lb/1000 ft) |
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| 55FB7110-22-* | 22 | 38 | .006 | .008 | .135 | .142 | 15.5 |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

ACCELERATED AGING (CROSSLINKING PROOF TEST):

300 ± 3°C for 7 hours

BLOCKING: 200°C ± 3°C for 6 hours

FLAMMABILITY: 3 seconds (maximum); 3 inches (maximum);

no flaming of facial tissue

IDENTIFICATION AND COLOR STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 3500 lbf/in² (minimum)

JACKET FLAWS: Not Applicable

LOW TEMPERATURE-COLD BEND: -65°C ± 2°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND TEST (DIELECTRIC):

Conductor to conductor and shield, 1500 volts (rms), 60 Hz

VOLTAGE WITHSTAND TEST (Post Environmental):

Not Applicable

PART NUMBER:

The "*" in the part number above shall be replaced by color code designators except that violet shall be light violet and the designator shall be 7L, with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color. The color of the CHROMEL® shall be shown first.

1/ Example: AWG 22,

Per MIL-STD-687: light violet with white stripe and light violet with green stripe component wires; black jacket: 55FB7110-22-7L9/7L5-0

The combination of the above thermoelements is referred to as type K per ANSI MC96.1.

EMF shall be 4.05 mV (minimum), 4.14 mV (maximum), at 100°C with reference junction at 0°C using special tolerance limits of ± 1.1°C, and shall be performed on every length of finished cable.

CHROMEL® and ALUMEL® are federally registered trademarks of Hoskins Manufacturing Company. Alternative conductors, exhibiting the same performance characteristics, may be substituted for one or both of the CHROMEL® and ALUMEL® conductors.

ElectroLoss is a trademark of Tyco Electronics Corporation.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681 EXCEPT AS SPECIFIED HEREIN. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.



Raychem Wire & Cable
 501 Oakside Avenue
 Redwood City, CA 94063-3800
 Phone: 1-800-227-8816
 Fax: 1-650-361-6297