

SPECIFICATION CONTROL DRAWING

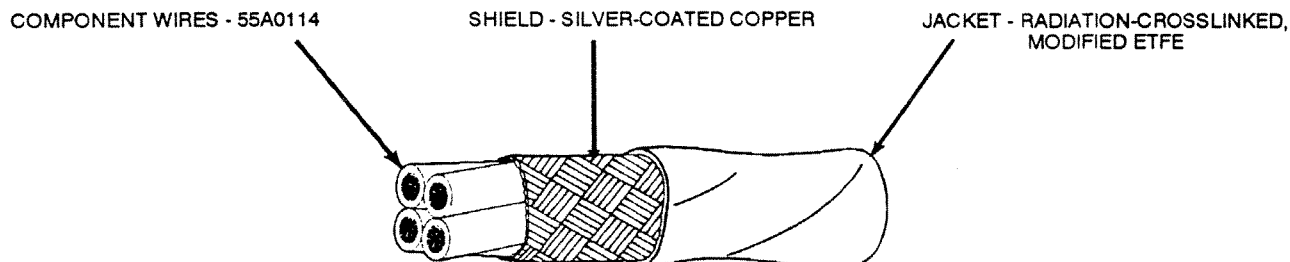
55A6417

TITLE FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date 3-22-93

Revision C

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-C-27500 as applicable.



CABLE CONSTRUCTION DETAILS

| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (inches) | | OUTSIDE DIAMETER (inches) | | MAXIMUM WEIGHT (lbs/1000 ft) |
|--------------|----------------------|-------------------|---------------------------|---------|---------------------------|---------|------------------------------|
| | | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 55A6417-30-* | 30 | 38 | .005 | .010 | .091 | .104 | 7.7 |
| 55A6417-28-* | 28 | 38 | .005 | .010 | .098 | .113 | 9.3 |
| 55A6417-26-* | 26 | 38 | .005 | .010 | .110 | .127 | 12.0 |
| 55A6417-24-* | 24 | 38 | .005 | .010 | .123 | .141 | 15.4 |
| 55A6417-22-* | 22 | 38 | .005 | .010 | .137 | .159 | 20.1 |
| 55A6417-20-* | 20 | 38 | .005 | .010 | .154 | .179 | 27.4 |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C
 Maximum continuous conductor temperature
 VOLTAGE RATING: 600 volts (rms)
 AGING STABILITY: 230 ± 5°C for 96 hours
 BLOCKING: 200 ± 3°C for 6 hours
 CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz,
 FLAMMABILITY: Procedure 1, 3 seconds (maximum);
 3 in. (maximum); no flaming of facial tissue
 JACKET COLOR: White preferred
 JACKET ELONGATION AND TENSILE STRENGTH:
 Elongation, 50% (minimum)
 Tensile Strength, 5000 lb/in² (minimum)
 JACKET FLAWS:
 Spark Test, 1500 volts (rms), 60 Hz, 100% test
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

LOW TEMPERATURE-COLD BEND: -55 ± 5°C
 for 4 hours
 SHIELD COVERAGE: 85% (minimum)
 THERMAL SHOCK: 230 ± 5°C for 4 hours
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:
 The *** in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.
 Example: AWG 20, white, blue, orange and green component wires; white jacket:
 55A6417-20-9/6/3/5-9

NOTE: Nominal values are for information only.
 Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSC4S23. less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

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