

# SPECIFICATION CONTROL DRAWING

**55A7389**

TITLE

ONE CONDUCTOR CABLE,  
SHIELDED, JACKETED, 600 VOLT

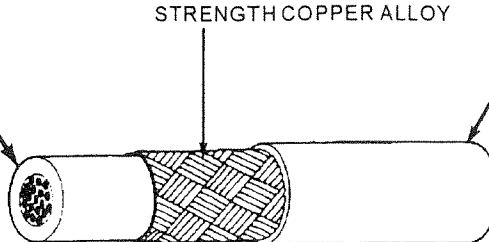
Date

2-9-98

Revision

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

COMPONENT WIRE - 55A0112

SHIELD - SILVER-COATED HIGH  
STRENGTH COPPER ALLOYJACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

## CABLE CONSTRUCTION DETAILS

| PART NUMBER  | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>(inch) |         | OUTSIDE DIAMETER<br>(inch) |         | MAXIMUM<br>WEIGHT<br>(lbs/1000 ft.) |
|--------------|----------------------------|-------------------------|----------------------------|---------|----------------------------|---------|-------------------------------------|
|              |                            |                         | MINIMUM                    | MAXIMUM | NOMINAL                    | MAXIMUM |                                     |
| 55A7389-28-* | 28                         | 38                      | .005                       | .010    | .060                       | .065    | 3.9                                 |
| 55A7389-26-* | 26                         | 38                      | .005                       | .010    | .065                       | .070    | 4.7                                 |
| 55A7389-24-* | 24                         | 38                      | .005                       | .010    | .070                       | .075    | 5.7                                 |
| 55A7389-22-* | 22                         | 38                      | .005                       | .010    | .076                       | .081    | 6.9                                 |
| 55A7389-20-* | 20                         | 38                      | .005                       | .010    | .083                       | .088    | 8.9                                 |
| 55A7389-18-* | 18                         | 38                      | .005                       | .010    | .093                       | .098    | 11.9                                |
| 55A7389-16-* | 16                         | 38                      | .005                       | .010    | .101                       | .106    | 14.3                                |
| 55A7389-14-* | 14                         | 38                      | .005                       | .010    | .118                       | .124    | 20.2                                |
| 55A7389-12-* | 12                         | 38                      | .005                       | .010    | .136                       | .143    | 28.2                                |

## 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 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

FLAMMABILITY: Procedure 1, 3 seconds (maximum);

3 in. (maximum); no flaming or facial tissue

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in<sup>2</sup> (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 RESISTANCE: 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 a color code designator with a dash separating the component wire color from the jacket color.

Example: AWG 20, white component wire;

white jacket: 55A7389-20-9-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSR1M23, 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

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