

SPECIFICATION CONTROL DRAWING

55A6402

TITLE

TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLT

Date

2-18-05

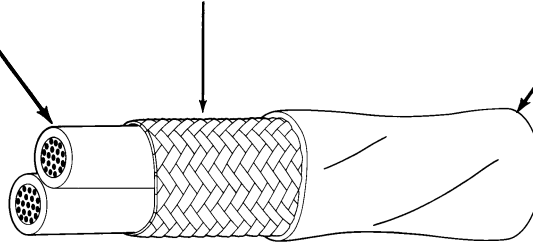
Revision

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This specification sheet forms a part of the latest issue of Raychem Specification 55A and WC27500.

COMPONENT WIRES - 55A0114

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

| PART NUMBER 1/ | CONDUCTOR SIZE (AWG) | SHIELD STRAND THICKNESS (± .0004 in.) | JACKET THICKNESS (inch) | | OUTSIDE DIAMETER (inch) | | MAXIMUM WEIGHT (lbs/1000 ft.) |
|-------------------|----------------------------|--|----------------------------|---------|----------------------------|---------|-------------------------------------|
| | | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 55A6402-28-* | 28 | .0015 | .005 | .010 | .076 | .081 | 4.5 |
| 55A6402-26-* | 26 | .0015 | .005 | .010 | .087 | .092 | 6.5 |
| 55A6402-24-* | 24 | .0015 | .005 | .010 | .097 | .102 | 8.2 |
| 55A6402-22-* | 22 | .0015 | .005 | .010 | .109 | .114 | 10.7 |
| 55A6402-20-* | 20 | .0015 | .005 | .010 | .125 | .131 | 13.8 |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINK 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 lbf/in² (minimum)

JACKET FLAWS:

Spark Test, 1500 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

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 slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

1/ Example: AWG 20, black and brown component wires; white jacket: 55A6402-20-0/1-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This cable shall meet all constructional requirements of M27500 (AWGSC2G23).

*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. 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.

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