

SPECIFICATION CONTROL DRAWING

55A6227TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, DOUBLE JACKETED,
GENERAL PURPOSE, 600 VOLT

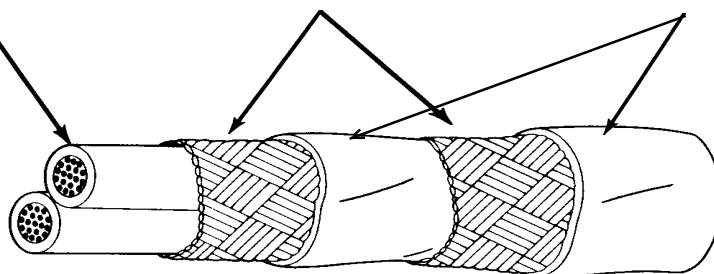
Date 8-11-05

Revision B

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

COMPONENT WIRES - 55A0111

SHIELDS - TIN-COATED COPPER

JACKETS - RADIATION-CROSSLINKED,
MODIFIED ETEFE

CABLE CONSTRUCTION DETAILS

| PART NUMBER 1/ | CONDUCTOR SIZE (AWG) | INNER SHIELD SIZE (AWG) | INNER JACKET THICKNESS (inches) | | OUTER SHIELD SIZE (AWG) | OUTER JACKET THICKNESS (inches) | | OUTSIDE DIAMETER (inches) | | MAXIMUM WEIGHT (lb/1000 ft) |
|-------------------|----------------------------|----------------------------------|---------------------------------------|---------|----------------------------------|---------------------------------------|---------|------------------------------|---------|-----------------------------------|
| | | | MINIMUM | MAXIMUM | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 55A6227-26-* | 26 | 38 | .004 | .008 | 38 | .005 | .010 | .126 | .132 | 15.2 |
| 55A6227-24-* | 24 | 38 | .004 | .008 | 38 | .005 | .010 | .136 | .143 | 17.7 |
| 55A6227-22-* | 22 | 38 | .004 | .008 | 38 | .005 | .010 | .148 | .155 | 20.9 |
| 55A6227-20-* | 20 | 38 | .004 | .008 | 38 | .005 | .010 | .162 | .170 | 25.8 |
| 55A6227-18-* | 18 | 38 | .004 | .008 | 38 | .006 | .011 | .182 | .191 | 33.0 |
| 55A6227-16-* | 16 | 38 | .005 | .008 | 38 | .006 | .011 | .198 | .208 | 38.8 |
| 55A6227-14-* | 14 | 38 | .005 | .008 | 38 | .007 | .012 | .234 | .246 | 53.5 |
| 55A6227-12-* | 12 | 38 | .005 | .009 | 38 | .007 | .013 | .272 | .285 | 72.6 |

ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND:

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

500 volts (rms), 60 Hz shield to shield

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) (each)

Tensile Strength, 5000 lbf/in² (minimum) (each)

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) (each)

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 colors, a dash separating the component wire color from the inner jacket color and a dash separating the inner jacket color from the outer jacket color.

1/ Example: AWG 22, black and brown component wires;
white inner jacket and white outer jacket:
55A6227-22-0/1-9-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction shall meet all constructional requirements of M27500 (AWG SB2V73).

*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.