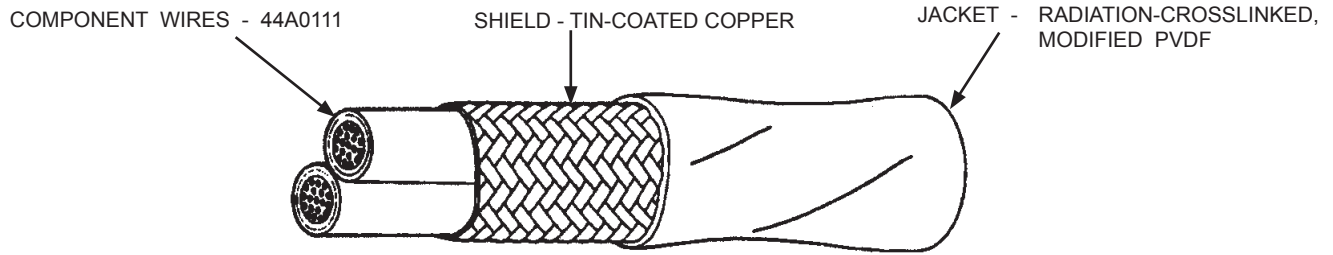



| | | | |
|--|---|-----------------|---------|
| SPECIFICATION CONTROL DRAWING | | 44AM2121 | |
| TITLE | TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT | Date | 3-12-09 |
| | | Revision | C |
| This specification sheet forms a part of the latest issue of Raychem Specification 44 and NEMA WC 27500 as applicable. | | | |



| PART NUMBER 1/ | CONDUCTOR SIZE (AWG) | SHIELD STRAND THICKNESS (± .0004 inch) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lbs/1000 ft.) |
|-------------------|-------------------------|---|---------------------------|---------|---------------------------|---------|----------------------------------|
| | | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 44AM2121-26-* | 26 | .0015 | .005 | .010 | .091 | .096 | 6.3 |
| 44AM2121-24-* | 24 | .0015 | .005 | .010 | .103 | .108 | 8.1 |
| 44AM2121-22-* | 22 | .0015 | .005 | .010 | .117 | .123 | 10.7 |
| 44AM2121-20-* | 20 | .0015 | .005 | .010 | .133 | .140 | 14.5 |
| 44AM2121-18-* | 18 | .0015 | .005 | .010 | .153 | .161 | 20.1 |
| 44AM2121-16-* | 16 | .0015 | .006 | .012 | .169 | .177 | 24.9 |
| 44AM2121-14-* | 14 | .0015 | .006 | .012 | .203 | .213 | 35.8 |
| 44AM2121-12-* | 12 | .0015 | .007 | .014 | .243 | .255 | 52.6 |

| PART NUMBER 1/ | BEND TESTING | | | |
|-------------------|---|--------------|---|--------------|
| | MANDREL DIAMETER (inch) (±3%) | | WEIGHT (lb) (±3%) | |
| | LIFE CYCLE, IMMERSION AND CROSSLINKED VERIFICATION | COLD BEND | LIFE CYCLE, IMMERSION AND CROSSLINKED VERIFICATION | COLD BEND |
| 44AM2121-26-* | 3.00 | 3.00 | .250 | 1.50 |
| 44AM2121-24-* | 3.00 | 3.00 | .375 | 1.50 |
| 44AM2121-22-* | 3.00 | 3.00 | .375 | 3.00 |
| 44AM2121-20-* | 6.00 | 6.00 | .375 | 3.00 |
| 44AM2121-18-* | 6.00 | 6.00 | .500 | 3.00 |
| 44AM2121-16-* | 6.00 | 6.00 | .500 | 3.00 |
| 44AM2121-14-* | 6.00 | 6.00 | 1.00 | 9.00 |
| 44AM2121-12-* | 6.00 | 6.00 | 1.00 | 9.00 |

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

| | | | |
|--|--|--|--|
| 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. | | | |
| Page 1 of 2 | The TE logo, Tyco Electronics and Raychem are trademarks. | |  Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297 |
| | 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. | | |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 150 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 200 ± 5°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz, 15 seconds (minimum), 30 seconds (maximum)

FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue

IMMERSION: Diameter increase 5% (maximum), no cracking, no dielectric breakdown

JACKET COLOR: White preferred

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in² (minimum)

JACKET FLAWS:

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

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

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND (Post Environmental): 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "*" in the part numbers on page 1 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.

1/ Example: AWG 20, black and brown component wires; white jacket: 44AM2121-20-0/1-9

1/ See footer section on page 1