

SPECIFICATION CONTROL DRAWING

SCD

400R1121

Title TWO CONDUCTOR CABLE, SHIELDED, JACKETED, LIMITED FIRE HAZARD, 600 VOLT

Date 3-8-16

Revision B

This specification sheet forms a part of the latest issue of Raychem Specification WCD 3114.

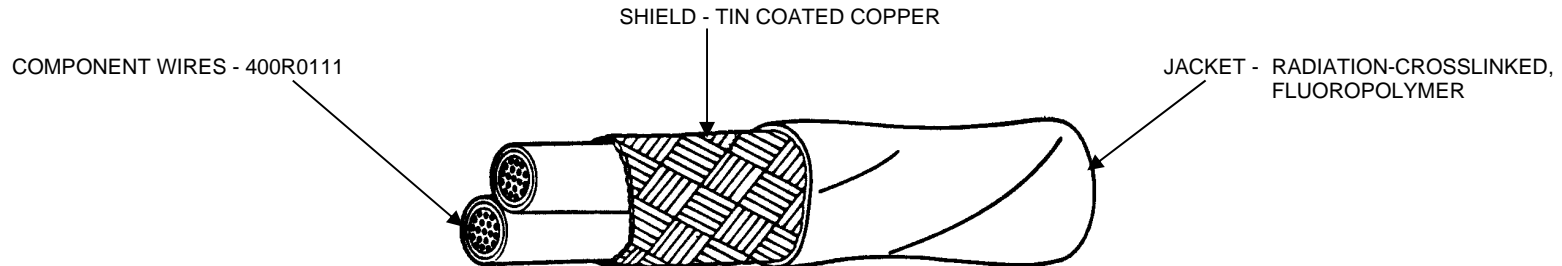


TABLE I. CABLE CONSTRUCTION DETAILS

| PART NUMBER ^{1/} | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (inch) (mm) | | OUTSIDE DIAMETER (inch) (mm) | | MAXIMUM WEIGHT (lbs/1000 ft.) (kg/km) |
|------------------------------|-------------------------|----------------------|---------------------------------|-------------|---------------------------------|-------------|---|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| 400R1121-26-* | 26 | 38 | .006 (.152) | .008 (.203) | .101 (2.57) | .106 (2.69) | 8.3 (12.4) |
| 400R1121-24-* | 24 | 36 | .006 (.152) | .008 (.203) | .117 (2.97) | .123 (3.12) | 11.5 (17.1) |
| 400R1121-22-* | 22 | 36 | .006 (.152) | .008 (.203) | .131 (3.33) | .138 (3.51) | 14.7 (21.9) |
| 400R1121-20-* | 20 | 36 | .006 (.152) | .008 (.203) | .147 (3.73) | .154 (3.91) | 18.9 (28.1) |
| 400R1121-18-* | 18 | 36 | .007 (.178) | .009 (.229) | .169 (4.29) | .177 (4.50) | 25.7 (38.2) |
| 400R1121-16-* | 16 | 36 | .007 (.178) | .009 (.229) | .183 (4.65) | .192 (4.88) | 30.4 (45.2) |
| 400R1121-14-* | 14 | 36 | .007 (.178) | .009 (.229) | .217 (5.51) | .228 (5.79) | 42.5 (63.2) |
| 400R1121-12-* | 12 | 36 | .007 (.178) | .009 (.229) | .255 (6.48) | .268 (6.81) | 59.8 (89.0) |
| 400R1121-10-* | 10 | 36 | .008 (.203) | .010 (.254) | .299 (7.59) | .314 (7.98) | 86.3 (128.) |

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 Corporation 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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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.



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Revision

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TABLE II. CABLE PERFORMANCE DETAILS

| PART NUMBER ^{1/} | BEND TESTING | | | |
|------------------------------|--|--------------|----------------------------|--------------|
| | MANDREL DIAMETER (inch) (mm) (± 3%) | | WEIGHT (lb) (kg) (± 3%) | |
| | ACCELERATED AGING | COLD BEND | ACCELERATED AGING | COLD BEND |
| 400R1121-26-* | 3.00 (76.2) | 3.00 (76.2) | .250 (.113) | 1.50 (.680) |
| 400R1121-24-* | 3.00 (76.2) | 3.00 (76.2) | .375 (.170) | 1.50 (.680) |
| 400R1121-22-* | 6.00 (152.) | 6.00 (152.) | .375 (.170) | 3.00 (1.36) |
| 400R1121-20-* | 6.00 (152.) | 6.00 (152.) | .375 (.170) | 3.00 (1.36) |
| 400R1121-18-* | 6.00 (152.) | 6.00 (152.) | .500 (.227) | 3.00 (1.36) |
| 400R1121-16-* | 6.00 (152.) | 6.00 (152.) | .500 (.227) | 3.00 (1.36) |
| 400R1121-14-* | 6.00 (152.) | 6.00 (152.) | 1.00 (.454) | 9.00 (4.08) |
| 400R1121-12-* | 10.0 (254.) | 10.0 (254.) | 1.00 (.454) | 9.00 (4.08) |
| 400R1121-10-* | 10.0 (254.) | 10.0 (254.) | 1.00 (.454) | 9.00 (4.08) |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 125°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level**ACCELERATED AGING:** 300 ± 3°C for 6 hours**BLOCKING:** 150 ± 3°C for 6 hours**DIELECTRIC WITHSTAND:** 2500 volts (rms), 60 Hz, 1 minute**FLAMMABILITY:** Char Length, 5 ft. (1.5 m) (maximum)**JACKET COLOR:** White preferred**JACKET CONCENTRICITY:** 70% (minimum)**JACKET ELONGATION AND TENSILE STRENGTH:**

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in² (27.6 MPa) (minimum)**JACKET FLAWS:**

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours**SHIELD COVERAGE:** 85% (minimum)**SMOKE RELEASE:**Peak Smoke Release Rate, 0.40 m²/s (maximum)Total Smoke Release, 150 m² (maximum)**SMOKE TEST:** D4, 50 (maximum); Dm, 300 (maximum)**TOXICITY:** HCN: 100 ppm (maximum)SO₂: 100 ppm (maximum)

CO: 3500 ppm (maximum)

HF: 100 ppm (maximum)

NO: 100 ppm (maximum)

HCl: 500 ppm (maximum)

VOLTAGE WITHSTAND (Post Environmental): 1000 volts (rms), 60 Hz, 1 minute**^{1/} PART NUMBER:**

The "***" in the part numbers in Tables I and II 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, black and brown component wires; white jacket:
400R1121-20-0/1-9**CABLE IDENTIFICATION:**

Jacket shall be marked in contrasting color as follows:

"RAYCHEM 400R1121-xx - 600V Yr of Mfg" (xx = applicable AWG size)

^{1/} See footer section on page 1

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