

# SPECIFICATION CONTROL DRAWING

**44AM313+**

Title

THREE CONDUCTOR CABLE, SHIELDED, GENERAL PURPOSE, 600 VOLT

Date

12-21-05

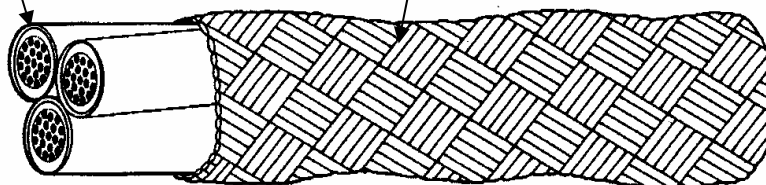
Revision

A

This specification sheet forms a part of the latest issue of Raychem Specification 44 and NEMA WC 27500 as applicable.

COMPONENT WIRES – 44A011+

SHIELD – COPPER, COATING SAME AS ON CONDUCTOR  
EXCEPT TIN-COATED SHIELD WITH SILVER-  
COATED HIGH STRENGTH ALLOY CONDUCTOR



CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			NOMINAL	MAXIMUM	
44AM313+-26-*	26	38	.090	.096	8.1
44AM313+-24-*	24	38	.103	.109	10.8
44AM313+-22-*	22	38	.119	.124	14.5
44AM313+-20-*	20	38	.136	.141	19.8
44AM313+-18-*	18	38	.157	.163	28.0
44AM313+-16-*	16	38	.173	.180	34.5
44AM313+-14-*	14	38	.209	.219	51.4
44AM313+-12-*	12	38	.250	.260	76.9

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz,

15 seconds (minimum), 30 seconds (maximum)

SHIELD COVERAGE: 85% (minimum)

PART NUMBER:

The "+" in the part numbers above shall be replaced by the  
applicable conductor material designator as follows:

- 1 tin-coated copper
- 2 silver-coated copper
- 3 nickel-coated copper
- 4 silver-coated high strength copper alloy (awg's 26-16 only)
- 6 nickel-coated high strength copper alloy (awg's 26-20 only)

The "\*" in the part numbers above shall be replaced by color code  
designators with a slash separating component wire colors.  
Colors shown do not necessarily reflect the sequence of  
manufacturing.

1/ Example: AWG 20, tin-coated copper wires; black,  
brown and red: 44AM3131-20-0/1/2

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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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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