

# SPECIFICATION CONTROL DRAWING

SCD

**44A022X**

Title TWO CONDUCTOR CABLE, UNSHIELDED, UNJACKETED, GENERAL PURPOSE, 1000 VOLT

Date 11-3-15

Revision C

This specification sheet forms a part of the latest issue of Raychem Specification 44.

COMPONENT WIRES - 44A021X



CABLE CONSTRUCTION DETAILS				
PART NUMBER 1/	CONDUCTOR SIZE (AWG)	OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lbs/1000 ft.)
		NOMINAL	MAXIMUM	
44A022X-26-*	26	.080	.085	3.2
44A022X-24-*	24	.092	.097	4.8
44A022X-22-*	22	.108	.114	7.0
44A022X-20-*	20	.124	.130	10.4
44A022X-18-*	18	.146	.152	15.4
44A022X-16-*	16	.162	.169	19.6
44A022X-14-*	14	.196	.203	29.6
44A022X-12-*	12	.234	.242	44.4
44A022X-10-*	10	.292	.302	71.7
44A022X-8-*	8	.412	.433	125.
44A022X-6-*	6	.508	.533	190.
44A022X-4-*	4	.616	.647	302.

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 1000 volts (rms) at sea level

DIELECTRIC WITHSTAND:

3000 volts (rms), 60 Hz, 1 minute

INSULATION FLAWS:

Spark Test, 4.0 kV (rms) at 3 kHz

Impulse Dielectric Test, 8.0 kV (peak)

1/ PART NUMBER:

The "X" in the part numbers above shall be replaced with a 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 26-20 only)

The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors.

Example: AWG 20, tin-coated copper conductors;

black and brown component wires:


44A0221-20-0/1

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.	