

# SPECIFICATION CONTROL DRAWING

**64AC0311**

TITLE

WIRE, MODIFIED POLYESTER-INSULATED,  
TIN-COATED COPPER, 19 STRAND, GENERAL PURPOSE, 600 VOLT

Date

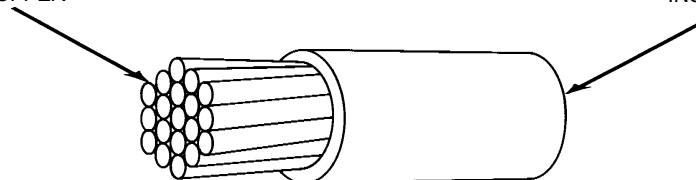
05-22-03

Revision

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This specification sheet forms a part of the latest issue of Raychem Specification 64.

CONDUCTOR - TIN-COATED COPPER



INSULATION - FLAME RETARDED  
MODIFIED POLYESTER

## CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (in.)			MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	FINISHED WIRE DIAMETER (in.)			NOMINAL WEIGHT ( lbs/1000 ft.)
			LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT		LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	
64AC0311-26-*	26	19 x 38	.0180	.0185	.0190	41.3	.032	.034	.036	1.3
64AC0311-24-*	24	19 x 36	.0225	.0230	.0240	26.2	.038	.040	.042	1.9
64AC0311-22-*	22	19 x 34	.0285	.0295	.0300	16.2	.045	.047	.049	2.8
64AC0311-20-*	20	19 x 32	.0365	.0375	.0385	10.1	.053	.055	.057	4.2
64AC0311-18-*	18	19 x 30	.0450	.0460	.0475	6.35	.063	.065	.067	6.4
64AC0311-16-*	16	19 x 29	.0515	.0525	.0535	4.91	.069	.072	.075	8.2
64AC0311-14-*	14	19 x 27	.0645	.0660	.0675	3.10	.085	.089	.093	12.7
64AC0311-12-*	12	19 x 25	.0880	.0900	.0920	1.96	.110	.114	.118	21.1

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE INDEX: 125°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

CONDUCTOR ELONGATION: 10% for AWG 22 and larger

6% for AWG 24 and smaller (minimum)

FLAMMABILITY: 30 seconds (maximum) afterburn,  
3 second maximum duration for any flaming particles,  
3.0 in. (maximum) burn length

INSULATION ELONGATION AND TENSILE STRENGTH:

Tensile Strength, 4000 lbf/in<sup>2</sup> (minimum)

Elongation, 250% (minimum)

INSULATION FLAWS:

High Frequency Spark Test: 2.5 kV (rms) at 3 kHz

Impulse Dielectric: 6.0 kV (peak)

INSULATION RESISTANCE: 1500 megohms for 1000 ft. (minimum)

LOW TEMPERATURE-COLD BEND: -65 ± 3°C

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

1500 volts (rms), 60 Hz

PART NUMBER:

The "\*" in the part numbers above shall be replaced by color code  
designators.

1/ Example: AWG 22, white: 64AC0311-22-9

*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/ CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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.

**tyco**  
Electronics

**Raychem** Wire & Cable  
501 Oakside Avenue  
Redwood City, CA 94063-3800  
Phone: 1-800-227-8816  
Fax: 1-650-361-6297