

# SPECIFICATION CONTROL DRAWING

55/031A

TITLE WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, LIGHTWEIGHT, OUTER SPACE, 600 VOLT

Date 5-21-09 Revision H

This specification sheet forms a part of the latest issue of Raychem Specification 55/.

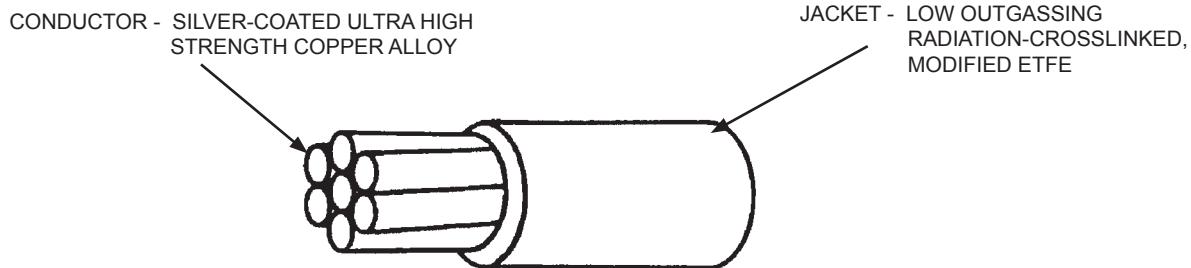


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
55/031A-32-*	32	7 x 40	.0089	.0096	262.	.0173 ± .0011	.37
55/031A-30-*	30	7 x 38	.0116	.0123	156.	.0200 ± .0011	.54
55/031A-28-*	28	7 x 36	.0146	.0153	98.7	.0230 ± .0011	.77
55/031A-26-*	26	19 x 38	.0188	.0200	57.5	.0275 ± .0012	1.25

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING		
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)
	CROSSLINK VERIFICATION		CROSSLINK VERIFICATION
55/031A-32-*	.125		.063
55/031A-30-*	.250		.063
55/031A-28-*	.250		.063
55/031A-26-*	.375		.063

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. 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.	Tyco Electronics	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.		

**WIRE RATINGS AND ADDITIONAL REQUIREMENTS****TEMPERATURE RATING: 200°C**

Maximum continuous conductor temperature

**VOLTAGE RATING: 600 volts (rms) at sea level****CROSSLINKING VERIFICATION: 300 ± 3°C for 1 hour****COLOR: White preferred****CONCENTRICITY: 80% (minimum)****IDENTIFICATION AND COLOR STRIPING DURABILITY:**

125 cycles (250 strokes) (minimum), 500 g weight

**INSULATION ELONGATION: 50% (minimum)****INSULATION FLAWS:**

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

**INSULATION THICKNESS: .004 in. (nominal)****RADIATION RESISTANCE: 500 megarads****SHRINKAGE: 230 ± 3°C, for 1 hour, 0.125 in. (maximum) in 12 inches****VACUUM STABILITY:**

Total Mass Loss (TML), 1.00% (maximum)

Volatile Condensable Material (VCM), 0.10% (maximum)

**VOLTAGE WITHSTAND TEST (Post Environmental): 1500 volts (rms), 60 Hz, 5 minutes****PART NUMBER:**

The “\*” in the part numbers on page 1 shall be replaced by a color code designator.

1/ Example: AWG 30, white; 55/031A-30-9

1/ See footer section on page 1

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