## **SPECIFICATION CONTROL DRAWING**

55/0314

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

Date 6-6-17

Revision H

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

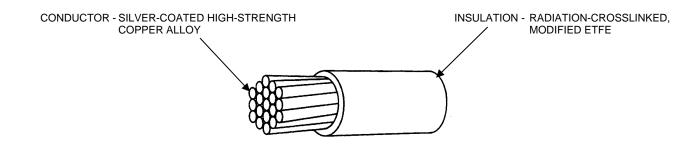


TABLE I. CONSTRUCTION DETAILS								
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch)		FINISHED WIRE			
					MAXIMUM RESISTANCE AT 20°C	DIAMETER (inch)	MAXIMUM WEIGHT	
			MINIMUM	MAXIMUM	(ohms/1000 ft.)	(,	(lbs/1000 ft.)	
55/0314-30-*	30	7 x 38	.0110	.0120	117.4	.0195 ± .0015	.52	
55/0314-28-*	28	7 x 36	.0140	.0150	74.4	.0225 ± .0015	.76	
55/0314-26-*	26	19 x 38	.0175	.0191	44.8	.0274 ± .0017	1.22	
55/0314-24-*	24	19 x 36	.0225	.0241	28.4	.0322 ± .0017	1.79	
55/0314-22-*	22	19 x 34	.0285	.0301	17.5	.0390 ± .0017	2.70	
55/0314-20-*	20	19 x 32	.0365	.0385	10.7	.0495 ± .0017	4.27	

TABLE II. PERFORMANCE DETAILS						
	CROSSLINKED VERIFICATION - BEND TESTING					
PART NUMBER <u>1</u> /	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
55/0314-30-*	.250	.063				
55/0314-28-*	.250	.063				
55/0314-26-*	.375	.063				
55/0314-24-*	.375	.125				
55/0314-22-*	.500	.188				
55/0314-20-*	.500	.250				

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

TE Connectivity 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.

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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.



Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-522-6752 Fax: 1-650-361-6297

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## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

CONCENTRICITY: 80% (minimum)

CROSSLINKED VERIFICATION: 300 ± 3°C for 1 hour 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) (30-24 AWG)

3.0 kV (rms) (22-20 AWG)

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 (Post Environmental): 1500 volts (rms), 60 Hz, 5 minutes

## 1/ PART NUMBER:

The "\*" in the part numbers in Tables I and II shall be replaced by a color code designator.

Example: AWG 28, white: 55/0314-28-9

AWG 28, white with a black stripe: 55/0314-28-90