SPECIFICATION CONTROL DRAWING

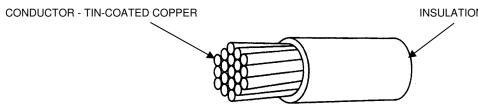
55/0311

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

Date 6-6-17

Revision L

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



INSULATION - RADIATION-CROSSLINKED, MODIFIED ETFE

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.)	` <i>'</i>	(lbs/1000 ft.)	
55/0311-30-*	30	7 x 38	.0110	.0120	108.4	.0195 ± .0015	.52	
55/0311-28-*	28	7 x 36	.0140	.0150	68.6	.0225 ± .0015	.76	
55/0311-26-*	26	19 x 38	.0175	.0191	41.3	.0274 ± .0017	1.22	
55/0311-24-*	24	19 x 36	.0225	.0241	26.2	.0322 ± .0017	1.79	
55/0311-22-*	22	19 x 34	.0285	.0301	16.2	.0390 ± .0017	2.70	
55/0311-20-*	20	19 x 32	.0365	.0385	9.88	.0495 ± .0017	4.27	
55/0311-18-*	18	19 x 30	.0452	.0476	6.23	.0590 ± .0017	6.56	
55/0311-16-*	16	19 x 29	.0514	.0538	4.81	.0665 ± .0019	8.33	
55/0311-14-*	14	19 x 27	.0644	.0674	3.06	.0810 ± .0021	12.81	
55/0311-12-*	12	37 x 28	.0825	.0865	2.02	.1000 ± .0026	19.71	
55/0311-10-*	10	37 x 26	.1050	.1090	1.26	.1260 ± .0040	31.70	

TABLE II. PERFORMANCE DETAILS						
D. D. T. W. W. A. D. E. D.	CROSSLINKED VERIFICATION - BEND TESTING					
PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
55/0311-30-*	.250	.063				
55/0311-28-*	.250	.063				
55/0311-26-*	.375	.063				
55/0311-24-*	.375	.125				
55/0311-22-*	.500	.188				
55/0311-20-*	.500	.250				
55/0311-18-*	.500	.250				
55/0311-16-*	.750	.375				
55/0311-14-*	1.00	.500				
55/0311-12-*	1.50	.750				
55/0311-10-*	2.00	.750				

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.

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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: 150°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) (22-10 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 20, white: 55/0311-20-9

AWG 20, white with a black stripe: 55/0311-20-90