SPECIFICATION CONTROL DRAWING						SCD 55/03	
WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, ULTRA LIGHTWEIGHT, OUTER SPACE, 600 VOLT						0ate 6-6-17	Revision L
		s specification sheet			f Raychem Spec		
CONDUCTOR	- TIN-COAT			)	INSULAT	rion - Radiation-c Modified et	
		, т	ABLE I. CONS	TRUCTION DET	AILS		
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED		FINISHED WIRE		
			COND		MAXIMUM RESISTANC AT 20°C (ohms/1000 ft	(inch)	MAXIMUM WEIGHT (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
	P	ART NUMBER	ABLE II. PERF	KED VERIFICA	AILS TION - BEND TE WEIGH		
	<u>1</u> /		(inch) (± 3%)		(lb) (± 3%)		
55/0311-30-* 55/0311-28-*			.250		.063 .063		
	55/0311-26-*		.375		.063		
		55/0311-24-*	.375		.125		
		55/0311-22-*	.500	)	.188		
		55/0311-22-* 55/0311-20-*	.500		.188 .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

.750

1.00

1.50

2.00

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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55/0311-16-\*

55/0311-14-\*

55/0311-12-\*

55/0311-10-\*



.375

.500

.750

.750

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SPECIFICATION CONTROL DRAWING

SCD

## 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