

# SPECIFICATION CONTROL DRAWING

55/LF0112

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

Date 12-12-07 Revision B

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

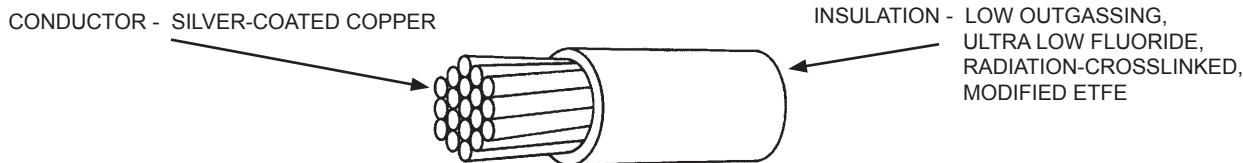


TABLE I. CONSTRUCTION DETAILS

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/LF0112-28-*	28	7 x 36	.014	.015	63.8	.027 ± .002	.91
55/LF0112-26-*	26	19 x 38	.018	.019	38.4	.032 ± .002	1.4
55/LF0112-24-*	24	19 x 36	.023	.025	24.3	.037 ± .002	2.0
55/LF0112-22-*	22	19 x 34	.029	.030	15.1	.043 ± .002	2.8
55/LF0112-20-*	20	19 x 32	.037	.039	9.19	.050 ± .002	4.3
55/LF0112-18-*	18	19 x 30	.046	.048	5.79	.060 ± .002	6.5
55/LF0112-16-*	16	19 x 29	.052	.054	4.52	.068 ± .002	8.3
55/LF0112-14-*	14	19 x 27	.065	.068	2.88	.085 ± .003	13.0
55/LF0112-12-*	12	37 x 28	.084	.087	1.90	.103 ± .003	19.7

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING		
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)
	CROSSLINK VERIFICATION		CROSSLINK VERIFICATION
55/LF0112-28-*	.250		.125
55/LF0112-26-*	.375		.125
55/LF0112-24-*	.375		.250
55/LF0112-22-*	.500		.375
55/LF0112-20-*	.500		.500
55/LF0112-18-*	.500		.500
55/LF0112-16-*	.750		.750
55/LF0112-14-*	1.00		1.00
55/LF0112-12-*	1.50		1.50

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.

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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.



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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****CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour****COLOR: White preferred****FLUORIDE EXTRACTION: 70 ± 2° C for 168 hours, 20 ppm (maximum)****IDENTIFICATION AND COLOR STRIPING DURABILITY:**

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

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

Spark Test, 3.0 kV (rms)

Impulse DielectricTest, 8.0 kV (peak)

**INSULATION THICKNESS: 0.005 in. (minimum)****RADIATION RESISTANCE: 500 megarads****SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 in. (maximum) in 12 in.****VACUUM STABILITY:**

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

Volatile Condensable Material, 0.10% (maximum)

**VOLTAGE WITHSTAND TEST (Post Environmental): 2500 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 22, white: 55/LF0112-22-9

AWG 22, white with black stripe: 55/LF0112-22-90

1/ See footer section on page 1

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