

SPECIFICATION CONTROL DRAWING

SCD

55LF0114

Title WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, ULTRA LOW FLUORIDE, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 10-16-18

Revision E

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

CONDUCTOR - SILVER-COATED HIGH-STRENGTH COPPER ALLOY

INSULATION - ULTRA LOW FLUORIDE, RADIATION-CROSSLINKED, MODIFIED ETFE

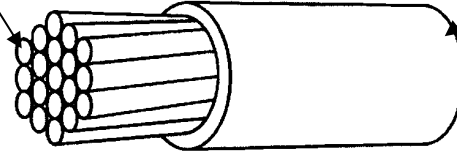


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inch)	MAXIMUM WEIGHT (lbs/1000 ft.)
55LF0114-30-*	30	7 x 38	.011	.012	117.4	.024 ± .002	.66
55LF0114-28-*	28	7 x 36	.014	.015	74.4	.027 ± .002	.91
55LF0114-26-*	26	19 x 38	.018	.020	44.8	.032 ± .002	1.4
55LF0114-24-*	24	19 x 36	.023	.024	28.4	.037 ± .002	2.0
55LF0114-22-*	22	19 x 34	.029	.031	17.5	.043 ± .002	2.9
55LF0114-20-*	20	19 x 32	.037	.039	10.7	.050 ± .002	4.4
55LF0114-18-*	18	19 x 30	.046	.050	6.8	.060 ± .002	6.5
55LF0114-16-*	16	19 x 29	.052	.057	5.3	.068 ± .002	8.3

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND
55LF0114-30-*	.250	.375	.125	.500
55LF0114-28-*	.250	.375	.125	.500
55LF0114-26-*	.375	.500	.125	.500
55LF0114-24-*	.375	.500	.250	1.00
55LF0114-22-*	.500	.750	.375	1.00
55LF0114-20-*	.500	.750	.500	1.00
55LF0114-18-*	.500	1.00	.500	1.00
55LF0114-16-*	.750	1.00	.750	1.00

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/ COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681, EXCEPT LIGHT COLORS SHALL BE DESIGNATED WITH AN "L" AFTER THE COLOR CODE (0L, 1L, 2L, etc.). 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

ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours

BLOCKING: 230 ± 3°C for 24 hours

COLOR: Per MIL-STD-681, except light colors (xL) shall meet Munsell color limits for UV laser markable wire in SAE AS22759. White preferred.

CONCENTRICITY: 70% (minimum)

FLAMMABILITY: Procedure 1,

3 seconds (maximum), 3 inches (maximum); no flaming of facial tissue

FLUORIDE EXTRACTION: 70 ± 2°C for 168 hours, 20 ppm (maximum)

HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum)

IDENTIFICATION, COLOR STRIPING, AND BAND DURABILITY:

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

IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown

INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 75% (minimum)

Tensile Strength, 5000 lbf/in² (minimum)

INSULATION FLAWS:

Spark Test, 5.7 kV (rms) at 3 kHz

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum)

INSULATION THICKNESS: 0.005 in. (minimum)

LIFE CYCLE: 230 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours

SHRINKAGE: 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 inches

SMOKE TEST: 250 ± 5°C, no visible smoke

SOLDERABILITY (Quality Conformance, AWG 30-20 only):

Per MIL-STD-202, Method 208, except without steam aging

SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings

THERMAL SHOCK RESISTANCE: 200 ± 3°C, 0.060 in. (maximum)

UV LASER MARKING (Test per SAE AS22759, Quality Conformance, AWG 30-20 only):

70% (minimum average) for white (9) and light (-xL) insulation colors only

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz

WRAP TEST: 313 ± 3°C for 2 hours

1/ PART NUMBER:

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

Example: AWG 22, white: 55LF0114-22-9

AWG 22, light green: 55LF0114-22-5L

AWG 22, white with a black stripe: 55LF0114-22-90

1/ See footer section on page 1

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)