

# SPECIFICATION CONTROL DRAWING

SCD

**55A6359**

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

Date 9-25-17

Revision K

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

CONDUCTOR - SILVER-COATED HIGH-STRENGTH COPPER ALLOY

INSULATION - RADIATION-CROSSLINKED, MODIFIED ETFE

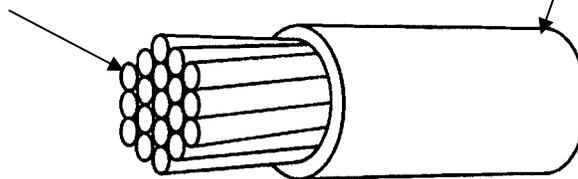


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inch)	MAXIMUM WEIGHT (lbs/1000 ft.)
55A6359-28-*	28	7 x 36	.014	.016	74.4	.027 ± .002	.91
55A6359-26-*	26	19 x 38	.018	.020	44.8	.032 ± .002	1.4
55A6359-24-*	24	19 x 36	.023	.025	28.4	.037 ± .002	2.0
55A6359-22-*	22	19 x 34	.029	.031	17.5	.043 ± .002	2.9
55A6359-20-*	20	19 x 32	.037	.039	10.7	.051 ± .003	4.4
55A6359-18-*	18	19 x 30	.046	.050	6.8	.061 ± .003	6.7
55A6359-16-*	16	19 x 29	.052	.057	5.3	.069 ± .003	8.6

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
55A6359-28-*	.250	.375	.125	.500
55A6359-26-*	.375	.500	.125	.500
55A6359-24-*	.375	.500	.250	1.00
55A6359-22-*	.500	.750	.375	1.00
55A6359-20-*	.500	.750	.500	1.00
55A6359-18-*	.500	1.00	.500	1.00
55A6359-16-*	.750	1.00	.750	1.00

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

INSULATION ELONGATION: 125% (minimum), AWG 28  
150% (minimum), AWG 26-16

1/ PART NUMBER:

The "\*" in the part numbers above shall be replaced by a color code designator.  
Example: AWG 24, white: 55A6359-24-9  
AWG 24, white with a black stripe: 55A6359-24-90

Except as specified above, this construction shall meet all the requirements of Raychem Specification Sheet 55A0114 for AWG sizes 28-16.

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.



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