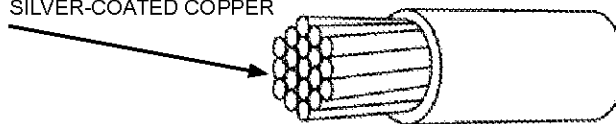


SPECIFICATION CONTROL DRAWING

55A0112

TITLE WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	Date 28MAR11	Revision R1
This specification sheet forms a part of the latest issue of Raychem Specification 55A.		

CONDUCTOR - SILVER-COATED COPPER



INSULATION - RADIATION-CROSSLINKED,
MODIFIED ETFE

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.)
55A0112-30-*	30	7 x 38	.011	.012	100.7	.024 ± .002	.66
55A0112-28-*	28	7 x 36	.014	.015	63.8	.027 ± .002	.91
55A0112-26-*	26	19 x 38	.018	.019	38.4	.032 ± .002	1.4
55A0112-24-*	24	19 x 36	.023	.025	24.3	.037 ± .002	2.0
55A0112-22-*	22	19 x 34	.029	.030	15.1	.043 ± .002	2.8
55A0112-20-*	20	19 x 32	.037	.039	9.19	.050 ± .002	4.3
55A0112-18-*	18	19 x 30	.046	.048	5.79	.060 ± .002	6.5
55A0112-16-*	16	19 x 29	.052	.054	4.52	.068 ± .002	8.3
55A0112-14-*	14	19 x 27	.065	.068	2.88	.085 ± .003	13.0
55A0112-12-*	12	37 x 28	.084	.087	1.90	.103 ± .003	19.7
55A0112-10-*	10	37 x 26	.106	.112	1.19	.128 ± .006	32.3
55A0112- 8-*	8	133 x 29	.158	.169	.658	.188 ± .008	60.5

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
55A0112-30-*	.250	.375	.125	.500
55A0112-28-*	.250	.375	.125	.500
55A0112-26-*	.375	.500	.125	.500
55A0112-24-*	.375	.500	.250	1.00
55A0112-22-*	.500	.750	.375	1.00
55A0112-20-*	.500	.750	.500	1.00
55A0112-18-*	.500	1.00	.500	1.00
55A0112-16-*	.750	1.00	.750	1.00
55A0112-14-*	1.00	1.50	1.00	3.00
55A0112-12-*	1.50	2.00	1.50	3.00
55A0112-10-*	2.00	3.00	1.50	3.00
55A0112- 8-*	3.00	4.00	4.00	6.00

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/ 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

ACCELERATED AGING (CROSSLINKING PROOF): $300 \pm 3^{\circ}\text{C}$ for 7 hoursBLOCKING: $230 \pm 3^{\circ}\text{C}$ for 24 hours

COLOR: white preferred

CONCENTRICITY: 70% (minimum)

FLAMMABILITY: Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue

HUMIDITY RESISTANCE: Insulation Resistance,

5000 megohms for 1000 ft. (minimum) for AWG 30 - 10

3000 megohms for 1000 ft. (minimum) for AWG 8

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) for AWG 30 - 10

3000 megohms for 1000 ft. (minimum) for AWG 8

INSULATION THICKNESS: 0.005 in. (minimum)

LIFE CYCLE: $230 \pm 3^{\circ}\text{C}$ for 500 hoursLOW TEMPERATURE-COLD BEND: $-65 \pm 3^{\circ}\text{C}$ for 4 hoursSHRINKAGE: $230 \pm 3^{\circ}\text{C}$ for 6 hours, 0.125 in. (maximum) in 12 in.

SOLDERABILITY: Per MIL-STD-202, Method 208, without steam aging, N/A for AWG 10 and 8

SMOKE TEST: $250 \pm 5^{\circ}\text{C}$. No visible smoke

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

THERMAL SHOCK RESISTANCE: $200 \pm 3^{\circ}\text{C}$,

0.060 in. (maximum) for AWG 30 - 12

0.100 in. (maximum) for AWG 10 - 8

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

WRAP TEST: $313 \pm 3^{\circ}\text{C}$ for 2 hours

PART NUMBER:

The "" in the part numbers on page 1 shall be replaced by a color code designator.

1/ Example: AWG 22, white: 55A0112-22-9

AWG 22, white with black stripe: 55A0112-22-90

1/ See footer section on page 1

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