SPECIFICATION CONTROL DRAWING

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

28MAR11

Revision

R1

55A0112

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



TABLE I. CONSTRUCTION DETAILS										
PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE					
					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT			
			MINIMUM	MAXIMUM	(ohms/1000 ft)	(,	(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								
	BEND TESTING							
PART NUMBER	MANDREL DIAMETE (inch) (± 3%)	R	WEIGHT (lb) (± 3%)					
1/	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



TE CONNECTIVITY Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297

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: white preferred

CONCENTRICITY: 70% (minimum)

FLAMMABILITY: Procedure1, 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 DielectricTest, 8.0 kV (peak)

INSULATION RESISTANCE:

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

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

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 in.

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

SMOKE TEST: 250 ± 5°C. No visible smoke

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

THERMAL SHOCK RESISTANCE: 200 ± 3°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 ± 3°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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