## SPECIFICATION CONTROL DRAWING

55PC6121

TITLE WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED. TIN-COATED COPPER, GENERAL PURPOSE, LIGHT AIRFRAME, 600 VOLT

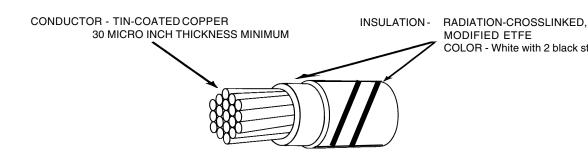
03-16-00

Date

Revision

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This specification sheet forms a part of the latest issue of Raychem Specifiction 55PC.



MODIFIED ETFE COLOR - White with 2 black stripes

CONSTRUCTION DETAILS												
PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER ( in.)			FINISHED WIRE						
						MAXIMUM	DIAMETER ( in.)			WEIGHT ( lbs/1000 ft. )		
			LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	RESISTANCE AT 20°C (ohms/1000 ft.)	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC6121-22-900	22	19 x 34	.0285	.0293	.0301	16.2	.0438	.0455	.0472	2.74	2.90	3.06
55PC6121-20-900	20	19 x 32	.0365	.0375	.0385	9.88	.0523	.0540	.0557	4.19	4.38	4.57
55PC6121-18-900	18	19 x 30	.0452	.0464	.0476	6.23	.0616	.0635	.0654	6.28	6.59	6.90

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour

IDENTIFICATION AND COLOR STRIPING DURABILITY:

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

INSULATION ELONGATION AND TENSILE STRENGTH:

Total Insulation.

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

**INSULATION FLAWS:** 

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: .008 in. (nominal) total insulation

SHRINKAGE:  $230 \pm 3^{\circ}$ C for 1 hour, 0.125 in.(maximum) in 12 in.

SPOOLING:

Minimum lengths, 500 ft. Place orange flag on each splice

STRIPE WIDTH: .022 in. (maximum)

STRIPE INTERVALS: Per MIL-STD-681 (2 inch maximum) VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

2500 volts (rms)

MARKING: Mark wire in green ink at 1.5 inch (nominal) distance

between marks. Example: "18 AWG"

Mark shall be read horizontally for AWG size 20 and 18

Mark shall be read vertically for AWG size 22

NOTES: - THIS WIRE MEETS ALL REQUIREMENTS OF BMS13-48T10C1, EXCEPT IDENTIFICATION AS MODIFIED HEREIN.

- STRIPING INK MEETS RAYCHEM SPECIFICATION RT1404 WHICH INCLUDES IMMERSED I.R. AND DWV TESTING.

COLORS, STRIPES AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

300 Constitution Drive, Menlo Park, California 94025 1-800-2 Raychem Fax: 1-650-361-6297

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