

SPECIFICATION CONTROL DRAWING

55PC8040

TITLE

WIRE, RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER-INSULATED, NORMAL WEIGHT, 600 VOLT

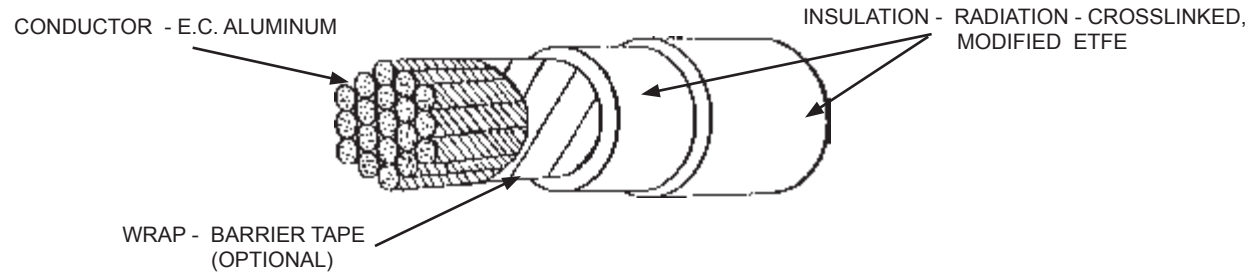
Date

7-3-12

Revision

D

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



CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (in.)			FINISHED WIRE					
			LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (in.)			WEIGHT (lbs/1000 ft.)	
							LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC8040-6-*	6	70 x 24	.201	.206	.211	.641	.240	.255	.270	41.4	43.8
55PC8040-4-*	4	107 x 24	.248	.255	.262	.427	.289	.305	.321	58.9	62.3
55PC8040-2-*	2	168 x 24	.310	.320	.330	.268	.362	.380	.398	91.2	96.4
55PC8040-1-*	1	219 x 24	.348	.358	.368	.214	.407	.425	.443	118.	125.
55PC8040-0-*	0	259 x 24	.396	.408	.420	.169	.455	.475	.495	140.	148.
55PC8040-00-*	00	334 x 24	.454	.466	.478	.133	.513	.535	.557	174.	184.
55PC8040-000-*	000	427 x 24	.511	.523	.535	.109	.578	.600	.622	215.	227.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.
Tyco Electronics Corporation 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.



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



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Revision

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SCD

55PC8040

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

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/in² (minimum)

INSULATION FLAWS:

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

LOW TEMPERATURE-COLD BEND (Qualification test):

-65 ± 2°C for 4 hours; Mandrel size shall be 15x specimen OD,

test weight shall be sufficient to maintain specimen contact with mandrel.

SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 inch (maximum) in 12 inches.

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms)

PART NUMBER:

The “*” in the part numbers on page 1 shall be replaced by a color code designator,

1/ Example: AWG 2, white: 55PC8040-2-9

1/ See footer section on page 1

Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[55PC8040-0-9](#) [55PC8040-00-9](#) [55PC8040-6-9](#)