

# SPECIFICATION CONTROL DRAWING

SCD

**55PC6361**

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

Date 9-21-15

Revision E

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

CONDUCTOR - ALUMINUM

INSULATION - RADIATION-CROSSLINKED,  
MODIFIED ETFE

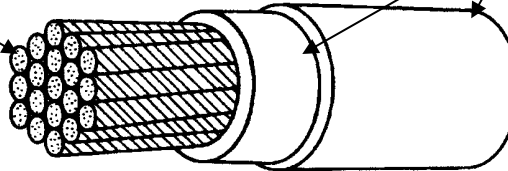


TABLE 1. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (inch)			FINISHED WIRE					
			LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inch)			WEIGHT (lbs/1000 ft.)	
							LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC6361-8-*	8	77 x 27	.156	.162	.168	1.166	.182	.191	.200	20.7	22.6
55PC6361-6-*	6	133 x 27	.198	.205	.212	.694	.225	.237	.249	32.5	35.1
55PC6361-4-*	4	209 x 27	.252	.260	.268	.450	.276	.290	.304	48.0	51.1
55PC6361-2-*	2	323 x 27	.305	.315	.325	.285	.340	.358	.376	77.0	82.3
55PC6361-1-*	1	399 x 27	.346	.358	.370	.230	.389	.408	.427	97.4	105.
55PC6361-0-*	0	518 x 27	.375	.388	.401	.195	.425	.445	.465	116.	125.
55PC6361-00-*	00	666 x 27	.435	.448	.461	.152	.500	.522	.544	158.	169.
55PC6361-000-*	000	851 x 27	.488	.506	.524	.115	.558	.580	.602	202.	218.
55PC6361-0000-*	0000	999 x 27	.534	.553	.570	.100	.590	.635	.680	244.	263.

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.

Page 1 of 3

(Page 3 is for  
internal use only)

Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks.

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



# SPECIFICATION CONTROL DRAWING

Page  
2 of 3  
(Page 3 is for  
internal use only)

Revision  
E

SCD

55PC6361

TABLE II. PERFORMANCE DETAILS		
PART NUMBER <sup>1/</sup>	CROSSLINKING PROOF TEST - BEND TESTING	
	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)
55PC6361-8-*	3.00	8.0
55PC6361-6-*	4.00	8.0
55PC6361-4-*	5.00	8.0
55PC6361-2-*	6.00	12.0
55PC6361-1-*	8.00	12.0
55PC6361-0-*	8.00	12.0
55PC6361-00-*	10.0	16.0
55PC6361-000-*	10.0	16.0
55PC6361-0000-*	10.0	16.0

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 175°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

CROSSLINKED 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:

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

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

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

### <sup>1/</sup> PART NUMBER:

The "\*" in the part numbers in Tables 1 and 2 shall be replaced by a color code designator.

Example: AWG 2, white: 55PC6361-2-9

AWG 2, white with a black stripe: 55PC6361-2-90

<sup>1/</sup> See footer section on page 1