

# SPECIFICATION CONTROL DRAWING

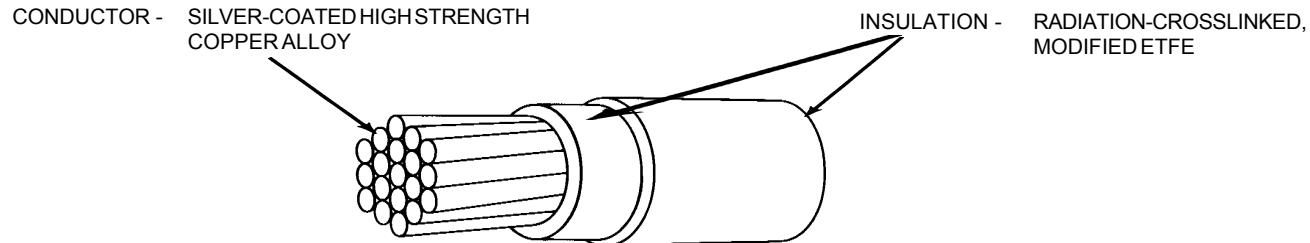
**55PC0814**

TITLE WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED,  
GENERAL PURPOSE, NORMAL AIRFRAME

Date 07-15-04

Revision A

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. )			MAXIMUM RESISTANCE AT 20°C (ohms/1000ft.)	FINISHED WIRE			WEIGHT ( lbs/1000 ft. )	
			LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT		DIAMETER ( in. )			TARGET VALUE	UPPER SPEC LIMIT
							LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT		
55PC0814-26-*	26	19 x 38	.0175	.0183	.0191	44.8	.0366	.0385	.0404	1.55	1.70
55PC0814-24-*	24	19 x 36	.0225	.0233	.0241	28.4	.0416	.0435	.0454	2.18	2.34
55PC0814-22-*	22	19 x 34	.0285	.0293	.0301	17.5	.0476	.0495	.0514	3.12	3.30
55PC0814-20-*	20	19 x 32	.0365	.0375	.0385	10.7	.0561	.0580	.0599	4.64	4.85
55PC0814-18-*	18	19 x 30	.0452	.0464	.0476	6.8	.0659	.0680	.0701	6.94	7.27
55PC0814-16-*	16	19 x 29	.0514	.0527	.0538	5.3	.0737	.0760	.0783	8.80	9.17

### WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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/in<sup>2</sup> (minimum)

INSULATION FLAWS:  
 Spark Test, 3.0 kV (rms)  
 Impulse Dielectric Test, 8.0 kV (peak)  
 INSULATION THICKNESS: .010 in. (nominal) total insulation  
 SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 in. (maximum) in 12 in.  
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):  
 2500 volts (rms)

PART NUMBER:  
 The "\*" in the part numbers above shall be replaced by color code designators.  
 1/ Example: AWG 22, white: 55PC0814-22-9  
 AWG 22, white with black stripe: 55PC0814-22-90

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

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