

SPECIFICATION CONTROL DRAWING

55PC6075

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

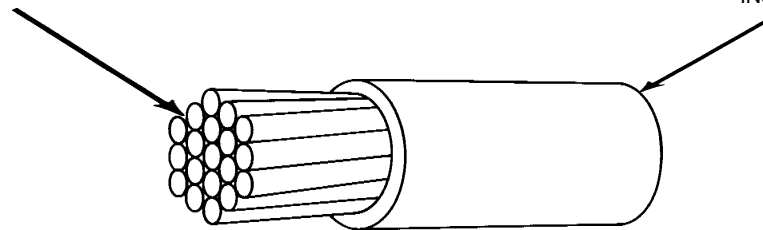
Date 12-16-05

Revision A

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

CONDUCTOR - SILVER-COATED ULTRA HIGH STRENGTH COPPER ALLOY (UNILAY)
NOTE: Silver-Coating Thickness - 80 micro inches (minimum average)

INSULATION - RADIATION-CROSSLINKED, MODIFIED ETFE



CONSTRUCTION DETAILS

PART NUMBER <u>1/</u>	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
55PC6075-26-*	26	19 x 38	.018	.019	.020	56.4	.029	.031	.033	1.30	1.41

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:
Tensile Strength, 5000 lbf/in² (minimum)
Elongation, 50% (minimum)

INSULATION FLAWS:
Spark Test, 3.0 kV (rms)
Impulse Dielectric Test, 8.0 kV (peak)
INSULATION THICKNESS: .006 in. (nominal)
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 number above shall be replaced by a color code designator.
1/ Example: AWG 26, white: 55PC6075-26-9

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