

# SPECIFICATION CONTROL DRAWING

**55PC0211**

WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED,  
GENERAL PURPOSE, LIGHT AIRFRAME

Date

07-08-04

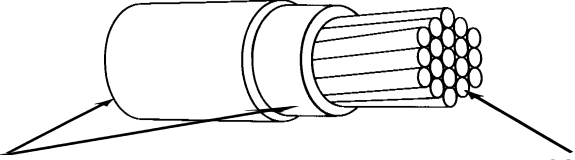
Revision

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TITLE

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

CONDUCTOR - TIN-COATED COPPER  
INSULATION - RADIATION-CROSSLINKED, MODIFIED ETFE



## CONSTRUCTION DETAILS

PART NUMBER /1	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (in.)			MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	DIA METER (in.)	WEIGHT (lbs/1000 ft.)	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
			UPPER SPEC LIMIT	TARGET VALUE	LOWER SPEC LIMIT									
55PC0211-26*	19	x 38	.0175	.0183	.0191	41.3	.0328	.0345	.0362	1.38	1.52	.0395	.0412	.0412
55PC0211-24*	19	x 36	.0225	.0233	.0241	26.2	.0378	.0395	.0412	1.98	2.13	.0455	.0472	.0472
55PC0211-22*	19	x 34	.0285	.0293	.0301	16.2	.0438	.0455	.0472	2.90	3.06	.0540	.0557	.0557
55PC0211-20*	19	x 32	.0365	.0375	.0385	9.88	.0523	.0540	.0557	4.38	4.57	.0635	.0654	.0654
55PC0211-18*	19	x 30	.0452	.0464	.0476	6.23	.0616	.0635	.0654	6.59	6.90	.0710	.0730	.0730
55PC0211-16*	19	x 29	.0514	.0527	.0538	4.81	.0690	.0710	.0730	8.37	8.70	.0860	.0882	.0882
55PC0211-14*	19	x 27	.0644	.0659	.0674	3.06	.0838	.0860	.0882	12.88	13.33	.1020	.1047	.1047
55PC0211-12*	37	x 28	.0825	.0845	.0865	2.02	.1020	.1047	.1074	19.73	20.30	.1252	.1290	.1328
55PC0211-10*	37	x 26	.1050	.1070	.1090	1.26	.1252	.1290	.1328	31.12	32.13	.1523	.1561	.1599
55PC0211-8*	37	x 29	.158	.163	.169	.701	.188	.196	.203	56.8	59.9	.223	.233	.242
55PC0211-6*	133	x 27	.198	.205	.212	.445	.233	.242	.251	89.7	94.7	.300	.311	.322
55PC0211-4*	133	x 25	.250	.260	.268	.280	.300	.311	.322	145.	154.	.370	.383	.397
55PC0211-2*	665	x 30	.320	.330	.340	.183	.370	.383	.397	227.	240.	.449	.466	.483
55PC0211-1*	817	x 30	.360	.370	.380	.152	.410	.424	.438	278.	291.	.475	.491	.505
55PC0211-0*	1045	x 30	.395	.415	.425	.116	.449	.466	.483	343.	366.	.525	.545	.565
55PC0211-00*	1330	x 30	.440	.462	.475	.091	.505	.525	.545	450.	481.	.585	.605	.625

## 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  
 Spark Test, 3.0 kV (rms)  
 Impulse Dielectric Test, 8.0 kV (peak)  
 INSULATION THICKNESS: .008 in. (nominal) total insulation  
 Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)  
 Elongation, 50% (minimum)  
 Total Insulation,  
 INSULATION ELONGATION AND TENSILE STRENGTH:  
 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: 55PC0211-22-9  
 AWG 22, white with black stripe: 55PC0211-22-90  
 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-881. 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.

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