SPECIFICATION CONTROL DRAWING

WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE INSULATED, NORMAL WEIGHT, OUTER SPACE

Date 07-08-04

55/0814 Revision С

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

CONDUCTOR - SILVER-COATED HIGH **INSULATION -**STRENGTH COPPER ALLOY

RADIATION-CROSSLINKED, MODIFIED ETFE, Primary Insulation shall be of a contrasting pigmentation to that of the jacket

JACKET - LOW OUTGASSING RADIATION-CROSSLINKED, MODIFIED ETFE

TABLE I. CONSTRUCTION DETAILS								
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
					MAXIMUM RESISTANCE DIAMETER AT 20°C (in.)	MAXIMUM WEIGHT		
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		(lbs/1000 ft.)	
55/0814-28-*	28	7 x 36	.014	.016	74.4	.035 ± .002	1.3	
55/0814-26-*	26	19 x 38	.018	.020	44.8	.040 ± .002	1.7	
55/0814-24-*	24	19 x 36	.023	.025	28.4	.045 ± .002	2.3	
55/0814-22-*	22	19 x 34	.029	.031	17.5	.050 ± .002	3.3	
55/0814-20-*	20	19 x 32	.037	.039	10.7	.058 ± .002	4.8	
55/0814-18-*	18	19 x 30	.046	.050	6.8	.070 ± .003	7.5	

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
1/	CROSSLINK VERIFICATION	CROSSLINK VERIFICATION				
55/0814-28-*	.375	.250				
55/0814-26-*	.375	.500				
55/0814-24-*	.500	.750				
55/0814-22-*	.500	1.00				
55/0814-20-*	.500	1.50				
55/0814-18-*	.750	2.00				

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour

COLOR: White preferred

IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight

INSULATION ELONGATION: 50% (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: .009 in. (minimum) (total insulation)

RADIATION RESISTANCE: 500 megarads

SHRINKAGE: $230 \pm 3^{\circ}$ C for 1 hour, 0.125 in.(maximum) in 12 in.

VACUUM STABILITY:

Total Mass Loss (TML), 1.0% (maximum) Volatile Condensable Material, 0.1% (maximum) VOLTAGE WITHSTAND TEST (Post Environmental):

2500 volts (rms), 60 Hz, 5 minutes

PART NUMBER:

The "*" in the part numbers above shall be replaced

by a color code designator.

1/ Example: AWG 20, white: 55/0814-20-9

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.



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