SPECIFICATION CONTROL DRAWING

55A7525

TITLE

WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED, TACKED TIN-COATED COPPER, LIGHTWEIGHT, 600 VOLT

Date 05-05-04

rision

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

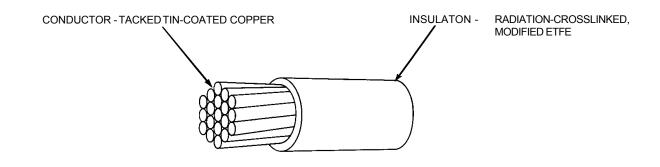


TABLE I. CONSTRUCTION DETAILS									
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE				
					MAXIMUM RESISTANCE DIAMETER AT 20°C (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)			
			MINIMUM	MAXIMUM	(ohms/1000 ft.)	,	,		
55A7525-18-*	18	19 x 30	.046	.049	6.23	.060 ± .002	6.5		

TABLE II. PERFORMANCE DETAILS								
	BEND TESTING							
PART NUMBER 1/	MANDREL [(inch)	DIAMETER (± 3%)	WEIGHT (lb) (± 3%)					
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
55A7525-18-*	.500	1.00	.500	1.00				

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.

Page 1 of 2

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



55A7525

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C,

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours

BLOCKING: 200 ± 3°C for 24 hours

COLOR: white preferred

CONCENTRICITY: 70% (minimum)

FLAMMABILITY:

Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue. HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum)

IDENTIFICATION, COLOR STRIPING AND BAND DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown

INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile strength, 5000 lbf/in² (minimum)

INSULATION FLAWS:

Spark Test, 3.0 kV (rms) at 3 kHz Impulse DielectricTest, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 megohms for 1000 ft (minimum)

INSULATION THICKNESS: 0.005 in. (minimum)

LIFE CYCLE: 200 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: $-65 \pm 3^{\circ}$ C for 4 hours SHRINKAGE: $200 \pm 3^{\circ}$ C, for 6 hours, 0.125 in. (maximum) in 12 in. SOLDERABILITY: Per MIL-STD-202, Method 208, without steam aging

SMOKE TEST: 200 ± 2°C. No visible smoke

STIFFNESS TEST: TBD

SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 3 °C, 0.060 in. (maximum)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): 2500 volts (rms), 60 Hz

WRAP TEST: 200 ± 3°C for 2 hours

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by a color code designator.

1/ Example: AWG 18, white: 55A7525-18-9

AWG 18, white with black stripe: 55A7525-18-90

1/ See footer section on page 1

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)