

	TABLE I. CONSTRUCTION DETAILS								
		WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETEROF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
P/	PART NUMBER 1/					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (Ibs/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							
	PART NUMBER 1/	BEND TESTING						
		MANDREL [(inch) (WEIGHT (Ib) (± 3%)				
		IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGII	BE	DLD IND		
55A	7525-18-*	.500	1.00	.500	1	.00		
Use Tyco Electronics al	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.							
-	DIM	ENSIONS ARE IN INCHES, AND UN	ARE NOMINAL.	5010	Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800			
Page 1 of 2	THIS SPECI REFERENCED	Phor	Phone: 1-800-227-8816 Fax: 1-650-361-6297					

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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/in ² (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 ± 3°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

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

1/ See footer section on page 1