

		T/	ABLE I. CONST	RUCTION DET	AILS		
			DIAME	TEROF		FINISHED WIRE	VIRE
PART NUMBER 1/	WIRE CONDUCTOR SIZE STRANDING (AWG) (number x AWG)		STRANDED CONDUCTOR (in.)		MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT
	· /		MINIMUM	MAXIMUM	(ohms/1000 ft)	× ,	(105/1000 11.)
44A9647-26-*	26	19 x 38	.018	.021	41.3	.034 ± .002	1.4
44A9647-24-*	24	19 x 36	.023	.026	26.2	.040 ± .002	2.0
44A9647-22-*	22	19 x 34	.029	.033	16.2	.047 ± .002	3.0
44A9647-20-*	20	19 x 32	.037	.041	9.88	.055 ± .002	4.5
44A9647-18-*	18	19 x 30	.046	.051	6.23	.065 ± .002	6.8
44A9647-16-*	16	19 x 29	.052	.058	4.81	.072 ± .003	8.6
44A9647-14-*	14	19 x 27	.065	.073	3.06	.089 ± .004	13.2
44A9647-12-*	12	37 x 28	.084	.090	2.02	.108 ± .004	20.2

PART NUMBER 1/	MANDI (inc	RELDIAMETER ch) (± 3%)	WEIGHT (lb) (± 3%)		
	LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A9647-26-*	.500	.500	.250	.250	.500
44A9647-24-*	.500	.500	.250	.375	.500
44A9647-22-*	.750	.750	.250	.375	1.00
44A9647-20-*	.750	.750	.250	.375	1.00
44A9647-18-*	1.00	1.00	.375	.500	1.00
44A9647-16-*	1.00	1.00	.375	.500	1.00
44A9647-14-*	1.50	1.50	.500	1.00	3.00
44A9647-12-*	2.00	2.00	.500	1.00	3.00

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.



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Page 1 of 2 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

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C, Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: 300 ± 2°C for 6 hours FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 5000 Megohms for 1000 ft. (minimum) IDENTIFICATION, STRIPING, OR BAND DURABILITY: 125 cycles (250 strokes) (minimum), 150 g weight IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: Primary Insulation, Tensile strength, 2500 lbf/in² (minimum) Elongation, 150% (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) at 3 kHz Impulse Dielectric test, 8.0 kV (peak) INSULATION RESISTANCE (Qualification Test Only): 5000 Megohms for 1000 ft. (minimum) LIFE CYCLE: 200 ± 2°C for 168 hours LOW TEMPERATURE-COLD BEND (Qualification Test Only): -55 ± 2°C for 4 hours SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 in. SMOKE TEST: 200 ± 2°C. No visible smoke SOLDERABILITY (95% minimum coverage): per MIL-STD-202, Method 208, except without steam-aging, Type RMA Flux SURFACE RESISTANCE: 500 Megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum) VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): 2500 volts (rms), 60 Hz, 5 minutes WICKING: 2.25 in. (maximum)

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by a color code designator. 1/ Example: AWG 18, white: 44A9647-18-9

JACKET IDENTIFICATION: Mark outer surface of jacket in contrasting color at 12 inch (nominal) intervals as follows:

For AWG 18 - "600V 44A AWG18 0.96mm2 Raychem Year of Manufacture" For AWG 16 - "600V 44A AWG16 1.23mm2 Raychem Year of Manufacture" For AWG 14 - "600V 44A AWG14 1.94mm2 Raychem Year of Manufacture" For AWG 12 - "600V 44A AWG12 2.97mm2 Raychem Year of Manufacture" (Marks for other AWG sizes will be added to SCD as required)

Example: AWG 16 manufactured in year 1995 will be marked as follows: 600V 44A AWG16 1.23mm2 Raychem 1995

1/ See footer section on page 1

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Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: 44A9647-16-0