

TABLE I. CONSTRUCTION DETAILS						
				FINISHED WIRE		
PART NUMBER <u>1</u> /		STRANDED CONDUCTOR	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)	
44A7422-8-**	8	41 x 24	.155 ± .005	1.09	.217 ± .010	28.0
44A7422-6-**	6	70 x 24	.206 ± .005	.641	.275 ± .012	44.9
44A7422-4-**	4	107 x 24	.255 ± .007	.427	.327 ± .012	63.9
44A7422-2-**	2	168 x 24	.320 ± .010	.268	.400 ± .015	94.6
44A7422-1-**	1	219 x 24	.358 ± .010	.214	.440 ± .015	120.
44A7422-0-**	0	259 x 24	.408 ± .012	.169	.490 ± .015	142.
44A7422-00-**	00	334 x 24	.466 ± .012	.133	.560 ± .018	183.
44A7422-000-**	000	427 x 24	.523 ± .012	.109	.620 ± .020	223.
44A7422-0000-**	0000	523 x 24	.575 ± .012	.085	.680 ± .022	269.

Tyco Electro	Users should evaluate the suitability of this product for their application. Specifications are subject t nics Corporation also reserves the right to make changes in materials or processing, which do not affect complianc		ut 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.				
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Page 1 of 2	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.		501 Oakside Avenue Redwood City, CA 94063-3800	
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN FERECT ON DATE OF INVITATION FOR BID	connectivity	Phone: 1-800-227-8816 Fax: 1-650-361-6297	

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Revision

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44A7422

TABLE II. PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER <u>1</u> /	MAI	NDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND		
44A7422-8-**	3.00	6.00	.750	3.00	6.00		
44A7422-6-**	4.00	8.00	1.00	3.00	10.0		
44A7422-4-**	5.00	10.0	1.25	3.00	10.0		
44A7422-2-**	6.00	12.0	3.00	4.00	15.0		
44A7422-1-**	7.00	13.0	4.00	4.00	15.0		
44A7422-0-**	8.00	14.0	4.00	4.00	15.0		
44A7422-00-**	9.00	16.0	5.00	4.00	15.0		
44A7422-000-**	10.0	18.0	6.00	4.00	15.0		
44A7422-0000-**	12.0	18.0	6.00	4.00	15.0		

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 7 hours
- Identification legibility, $225 \pm 2^{\circ}C$

*BLOCKING: $150 \pm 2^{\circ}C$ for 6 hours

BRAID (PET) COLOR: For tan only, Munsell Color Limits are per Table III. (Note: Due to the braid treatment, braids may include intermitten color variations such as smudges, spots or marks.) FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);

no flaming of facial tissue

*HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum)

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

INSULATION ELONGATION AND TENSILE STRENGTH: Primary Insulation,

Elongation, 150% (minimum)

Tensile Strength, 2000 lbf/in² (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 5.0 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak)

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum) JACKET COLOR: White

LIFE CYCLE: 200 ± 2°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 in.

SMOKE: 200 ± 2°C. No visible smoke.

*SURFACE RESISTANCE: 500 megohms-in. (minimum),

both readings

THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum) VOLTAGE WITHSTAND (Post Environmental):

2500 volts (rms), 60 Hz, 5 minutes

* NOTE: These tests to be conducted prior to the application of the braids.

PART NUMBER: The "**" in the part numbers on pages 1 and 2 shall be replaced by color code designators.

1/ Example: AWG 8, tan; 44A7422-8-1L AWG 8, white; 44A7422-8-9

TABLE III. MUNSELL COLOR LIMITS (For Tan)			
HUE	5R - 5YR		
VALUE	3.0 - 5.0		
CHROMA	4.0 - 6.0		

1/ See footer section on page 1

Mouser Electronics

Authorized Distributor

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

TE Connectivity:

<u>44A7422-0-1L</u> <u>44A7422-4-9-F210</u> <u>44A7422-6-9</u> <u>44A7422-2-1L</u> <u>44A7422-6-9-F210</u> <u>44A7422-1-1L</u> <u>44A7422-0-91</u> 44A7422-6-91 44A7422-4-91