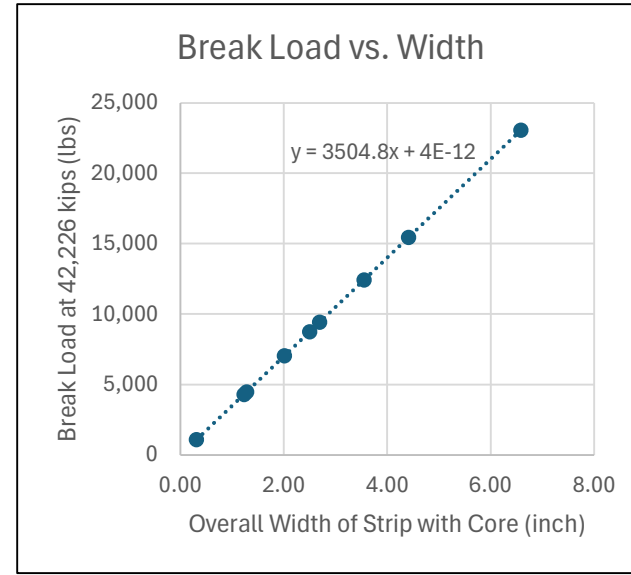
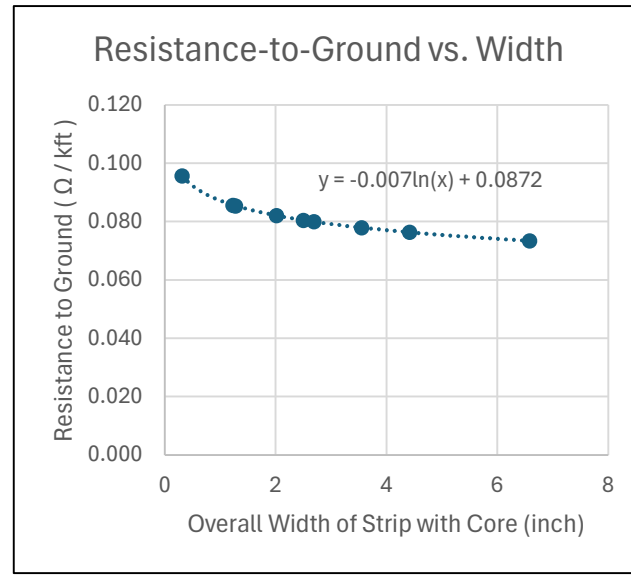
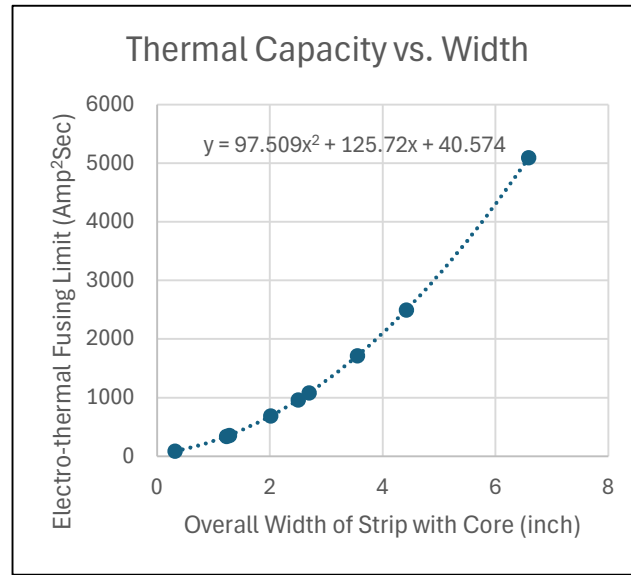
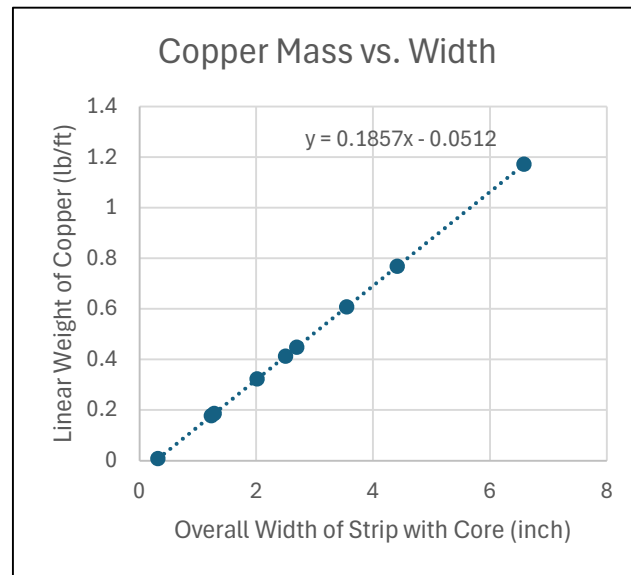


		1	2	3	4	5	6	7	8	9	10	11											
A		PHYSICAL CHARACTERISTICS					ELECTRICAL CHARACTERISTICS								MECHANICAL CHARACTERISTICS					A			
		MATERIAL (Symbol)	CABLE	WIRE	WIDTH	THICK ¹	WEIGHT	WITHSTAND LIMIT (SYM) ²					RESISTANCE ^{3,4}		GEOMETRY		BREAK LOAD ⁵						
			Overall Diameter (Inch)	Individual Diameter (Inch)	Average Width (Inch)	Average Thickness (Inch)	Linear Weight (Lbs/Ft)	Electro- Thermal Capacity (Amp ² t)	3-cycles 50 ms (kA)	6-cycles 100 ms (kA)	30-cycles 500 ms (kA)	60-cycles 1 sec (kA)	300-cycle 5 sec (kA)	Flow along conductor "I" (Ω/kft)	Flow into GROUND "R" (Ω/kft)	Cross sectional Area of Copper (Inch ²)	Contact Area (Inch)	Year 1 Tensile (ksi)	Max Force (Lbs)		Year 30 Max force Aggressive (Lbs)		
B		500 kcmil ARMOR-5100™	Cu	0.81	0.116	-	-	1.544	5,096	319	226	101	71	32	0.021	0.089	0.39	3.9	33	11,614	7,698	B	
			Cu/Fe	-	-	6.58	0.083	1.896	5,601	335	237	106	75	33	0.026	0.073	0.30	13.3	42	23,077	17,847		
C		350 kcmil ARMOR-2500™	Cu	0.68	0.1357	-	-	1.074	2,497	223	158	71	50	22	0.030	0.090	0.27	3.1	33	8,161	5,774	C	
				Cu/Fe	-	-	4.42	0.083	1.272	2,744	234	166	74	52	23	0.038	0.076	0.20	9.0	42	15,474		11,950
D		4/0 AWG ARMOR-965™	Cu	0.53	0.1055	-	-	0.641	965	139	98	44	31	14	0.050	0.091	0.17	2.6	33	4,933	3,123	D	
				Cu/Fe	-	-	2.500	0.083	0.720	1061	146	103	46	33	15	0.071	0.081	0.12	5.2	42	8,762		6,745
			2/0 AWG ARMOR-360™	Cu	0.41	0.1379	-	-	0.407	361	85	60	27	19	8	0.079	0.093	0.10	1.7	33	3,105		2,210
				Cu/Fe	-	-	1.28	0.083	0.369	397	89	63	28	20	9	0.114	0.085	0.06	2.7	42	4,487		3,429
E		#2 AWG ARMOR-90™	Cu	0.26	0.2576	-	-	0.202	90	42	30	13	9	4	0.158	0.095	0.05	0.8	33	1,548	1,300	E	
				Cu/Fe	-	-	0.31	0.083	0.090	99	44	31	14	10	4	0.225	0.096	0.02	0.8	42	1,101		803
F																						F	
G																						G	
		1	2	3	4	5	6	7	8	9	10	11											



Linear Weight	Copper Content vs Width ¹		Thermal Capacity vs Width ¹			Resistance vs Width ²		Break Load vs Width	
	Width	Cu Linear Wt.	Width	I ² t		Width	Resistance	Width	Break Load
	(inch)	(lb/ft)	(inch)	(Amp ² sec)		(inch)	(Ω / kft)	(inch)	(lbs)
USA and CANADA									
ARMOR-5100™	6.58	1.172	6.58	5096	500 kcmil copper equiv.	6.58	0.073	6.58	23,077
ARMOR-2500™	4.42	0.769	4.42	2497	350 kcmil copper equiv.	4.42	0.076	4.42	15,474
ARMOR-965™	2.50	0.413	2.50	964	4/0 kcmil copper equiv.	2.50	0.081	2.50	8,762
ARMOR-360™	1.28	0.187	1.28	361	2/0 AWG copper equiv.	1.28	0.085	1.28	4,487
ARMOR-90	0.31	0.007	0.31	90	#2 AWG copper equiv.	0.31	0.096	0.31	1,101
REST OF THE WORLD									
ARMOR-1720™	3.55	0.608	3.55	1716	150 mm ² copper equiv.	3.55	0.078	3.55	12,443
ARMOR-1090™	2.69	0.449	2.69	1085	120 mm ² copper equiv.	2.69	0.080	2.69	9,433
ARMOR-690™	2.01	0.323	2.01	690	95 mm ² copper equiv.	2.01	0.082	2.01	7,061
ARMOR-350™	1.23	0.178	1.23	343	70 mm ² copper equiv.	1.23	0.086	1.23	4,317

* NOTE:

- 1.) All conductors shown herein are 0.080 inch thick (experimentally determined thickness) with 0.036 inch steel core encapsulated in a copper sheath. See XDWG-101 Sheets 3 & 4 for details.
- 2.) Resistance to ground for Shining Armor conductors buried ~18.0 inches deep in soil of assumed resistivity $\rho = 100$ ohm-meters. See XDWG-105 for details.

PATENT
PENDING

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EXETER GROUND, LLC

Title	PERFORMANCE CHARACTERISTICS FOR INTERNATIONAL PATENT DISCLOSURE
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Drawn	JTJordan	Size B	Drawing No. XDWG-101	Rev
Approved	JTJordan			-
Date	10/25/2024			Sheet 2