

## AMPACT Copper Wire Taps

### FEATURES

- Compact, lightweight application tool permits easy installation almost anywhere, without bulky equipment, heat, or external power
- AMPACT copper taps are made of quality alloys for low resistivity and superior corrosion resistance
- A locking tab prevents the tapered locked wedge from loosening once it has been driven into position
- The tap's "C" member is composed of an aluminum bronze alloy and the wedge of a copper alloy very close to pure copper.
- Built-in spring tension causes the tap to maintain constant mechanical pressure for optimum electrical conductivity.
- Resist corrosion and will not loosen.

### APPLICATIONS

- Unique design incorporating a tapered "C" member and wedge, provides firm, sure contact for consistent, all weather, wire-to-wire, low resistance grounding connections
- The taps will provide secure connections on both stranded wire or solid rod.

### BENEFITS

- ♦ Taps will not penetrate copper plating, allowing secure connections from copper conductors to ground rods, reinforcing bars or conductors of any type
- ♦ Electrical joints are stable and effective for optimum electrical contact, even under conditions of creep and cold flow.
- ♦ Connectors may be checked visually – speeding inspection and practically eliminating callbacks
- ♦ Simple installation system greatly reduces exposure to energized lines
- ♦ When properly matched and applied, AMPACT taps exceed the current-carrying capacity of the conductors they are connecting.
- ♦ Taps stay permanently locked during power surges, yet may be removed if necessary without damage to cables or rods.



### GROUND ROD APPLICATIONS, COPPER-CLAD: DIMENSIONS IN INCHES (MM)

Designated Size	Wire Size	Actual Diameter
3/8 (9.53)	1/0 AWG	.355 (9.02)
1/2 (12.70)	3/0 AWG	.475 (12.06)
5/8 (15.88)	250 kcmil	.563 (14.30)
3/4 (19.05)	350 kcmil	.682 (17.32)

Galvanized Steel		
Designated Size	Wire Size	Actual Diameter
3/8 (9.53)	1/0 AWG	.375 (9.53)
1/2 (12.70)	3/0 AWG	.500 (12.70)
5/8 (15.88)	300 kcmil	.625 (15.88)
3/4 (19.05)	450 kcmil	.750 (19.05)



Listed by Underwriters Laboratories Inc., File No. E69905



Certified by Canadian Standards Association, File No. LR 56476  
REA Letter of Technical Acceptance (Grounding Taps)

Technical Documents  
Customer Manual: 409-2106  
Department Publications: 410-5810, 410-5811  
Product Specifications: 108-13011, 108-13012, 108-13015  
Safety Publication: 125-6217  
General Publication: 408-3010-1 through -4

### PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Groove Size kcmil or AWG	Groove Code	Conductor Diameter	
		Min	Max
500	A	.785 (19.9)	.813 (20.7)
450	B	.745 (18.9)	.784 (19.9)
400	E	.700 (17.8)	.744 (18.9)
350	G	.650 (16.5)	.699 (17.8)
300	H	.620 (15.7)	.649 (16.5)
250	K (R)**	.561 (14.2)	.625 (15.9)
4/0	L	.506 (12.9)	.560 (14.2)
3/0	M	.451 (11.5)	.505 (12.8)
2/0	N	.401 (10.2)	.450 (11.4)
1/0	O	.355 (9.0)	.400 (10.2)
No. 2	T	.280 (7.1)	.354 (9.0)
No. 4	W	.216 (5.5)	.279 (7.1)
No. 6	X	.182 (4.6)	.215 (5.5)

AMPACT COPPER TAP SELECTION FOR WIRE TO GROUND ROD<sup>†</sup> OR SOLID PIN

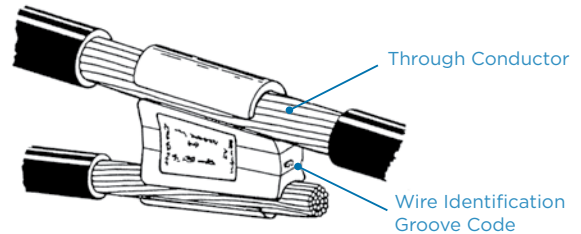
Copper Conductor (kcmil/AWG)	3/8"	1/2"	5/8"		3/4"	
	Ground Rod/Pin Dia. Range .355-.375 (9.02-9.53)	Ground Rod/Pin Dia. Range .475-.500 (12.07-12.7)	Ground Rod Dia. .563 (14.3)	Ground Rod/Pin Dia. .625 (15.88)	Ground Rod Dia. .682 (17.32)	Ground Rod/Pin Dia. .750 (19.05)
500	1-276337-4	1-276337-3	276337-9	1-276337-2	1-276337-1	276337-1
450	2-276337-5	2-276337-4	2-276337-3	2-276337-2	2-276337-1	1-276337-9
400	3-276337-7	3-276337-5	3-276337-3	3-276337-2	3-276337-1	2-276337-0
350	4-276337-9	4-276337-7	4-276337-5	4-276337-4	4-276337-3	2-276337-1
300	6-276337-0	5-276337-8	5-276337-6	5-276337-5	4-276337-4	2-276337-2
250	275187-4	275187-2	2-275187-8	5-276337-6	4-276337-5	2-276337-3
4/0	275187-9	275187-7	275187-1	5-276337-7	4-276337-6	276337-2
3/0	1-275187-3	1-275187-1	275187-2	5-276337-8	4-276337-7	2-276337-4
2/0	1-275187-6	1-275187-2	275187-3	5-276337-9	4-276337-8	276337-3
1/0	1-275187-8	1-275187-3	275187-4	6-276337-0	4-276337-9	2-276337-5
No. 2	2182410-1	1-275187-4	275187-5	6-276337-2	5-276337-1	276337-4
No. 4	2182410-1	3-275187-6	3-275187-0	6-276337-4	5-276337-3	2-276337-8
No. 6	2182410-2	3-275187-7	3-275187-1	6-276337-5	5-276337-4	2-276337-9

<sup>†</sup>Some Ground Rods have a designated or descriptive diameter that is different from the Actual Diameter. The Actual Diameter must be determined and used with the top chart for correct tap selection.

## AMPACT COPPER TAP SELECTION FOR WIRE-TO-WIRE APPLICATIONS

Typical Example:

500 to 350 kcmil = Groove Code AG = Part No. 1-276337-1



Wire Size	White Shells (69338-5)								Blue Shells (69338-1)					Yellow Shells (69338-4)
	X 5,6	W 4	T 2	O 1/0	N 2/0	M 3/0	L 4/0	K (R) 250	H 300	G 350	E 400	B 450	A 500	750 (61)
X 5,6	2182410-4	2182410-4	2182410-2	2182410-2	4-275187-0	3-275187-7	3-275187-4	3-275187-1	6-276337-5	5-276337-4	4-276337-2	2-276337-9	1-276337-8	1-81723-3*
W 4		2182410-3	2182410-2	2182410-1	3-275187-9	3-275187-6	3-275187-3	3-275187-0	6-276337-4	5-276337-3	4-276337-1	2-276337-8	1-276337-7	1-81723-3*
T 2			2182410-1	2182410-1	1-275187-7	1-275187-4	1-275187-0	275187-5	6-276337-2	5-276337-1	3-276337-9	276337-4	276337-8	1-81723-2*
O 1/0				1-275187-8	1-275187-6	1-275187-3	275187-9	275187-4	6-276337-0	4-276337-9	3-276337-7	2-276337-5	1-276337-4	1-81723-2*
N 2/0					1-275187-5	1-275187-2	275187-8	275187-3	5-276337-9	4-276337-8	3-276337-6	276337-3	276337-7	1-81723-1*
M 3/0						1-275187-1	275187-7	275187-2	5-276337-8	4-276337-7	3-276337-5	2-276337-4	1-276337-3	1-81723-0*
L 4/0							275187-6	275187-1	5-276337-7	4-276337-6	3-276337-4	276337-2	276337-6	81723-9*
K (R) 250								2-275187-8	5-276337-6	4-276337-5	3-276337-3	2-276337-3	276337-9	81723-8*
H 300									5-276337-5	4-276337-4	3-276337-2	2-276337-2	1-276337-2	81723-7
G 350										4-276337-3	3-276337-1	2-276337-1	1-276337-1	81723-6
E 400											3-276337-0	2-276337-0	1-276337-0	81723-5
B 450												1-276337-9	276337-1	81723-4
A 500													276337-5	81723-2
750 (61)														81723-1

## AMPACT COPPER WIRE TAPS

Tap	Cartridge
275187-1	69338-5
275187-2	69338-5
275187-3	69338-5
275187-4	69338-5
275187-5	69338-5
275187-6	69338-5
275187-7	69338-5
275187-8	69338-5
275187-9	69338-5
1-275187-0	69338-5
1-275187-1	69338-5
1-275187-2	69338-5
1-275187-3	69338-5
1-275187-4	69338-5
1-275187-5	69338-5
1-275187-6	69338-5
1-275187-7	69338-5
1-275187-8	69338-5
2-275187-8	69338-5
3-275187-0	69338-5
3-275187-1	69338-5
3-275187-3	69338-5
3-275187-4	69338-5
3-275187-6	69338-5
3-275187-7	69338-5
3-275187-9	69338-5
4-275187-0	69338-5
276337-1	69338-1
276337-2	69338-1
276337-3	69338-1
276337-4	69338-1
276337-5	69338-1
276337-6	69338-1
276337-7	69338-1
276337-8	69338-1
276337-9	69338-1
1-276337-0	69338-1
1-276337-1	69338-1
1-276337-2	69338-1
1-276337-3	69338-1
1-276337-4	69338-1
1-276337-7	69338-1
1-276337-8	69338-1

Tap	Cartridge
1-276337-9	69338-1
2-276337-0	69338-1
2-276337-2	69338-1
2-276337-3	69338-1
2-276337-4	69338-1
2-276337-5	69338-1
2-276337-8	69338-1
2-276337-9	69338-1
3-276337-0	69338-1
3-276337-1	69338-1
3-276337-2	69338-1
3-276337-3	69338-1
3-276337-4	69338-1
3-276337-5	69338-1
3-276337-6	69338-1
3-276337-7	69338-1
3-276337-9	69338-1
4-276337-1	69338-1
4-276337-2	69338-1
4-276337-3	69338-1
4-276337-4	69338-1
4-276337-5	69338-1
4-276337-6	69338-1
4-276337-7	69338-1
4-276337-8	69338-1
4-276337-9	69338-1
5-276337-1	69338-1
5-276337-3	69338-1
5-276337-4	69338-1
5-276337-5	69338-1
5-276337-6	69338-1
5-276337-7	69338-1
5-276337-8	69338-1
5-276337-9	69338-1
6-276337-0	69338-1
6-276337-2	69338-1
6-276337-4	69338-1
6-276337-5	69338-1
2182410-1	69338-5
2182410-2	69338-5
2182410-3	69338-5
2182410-4	69338-5