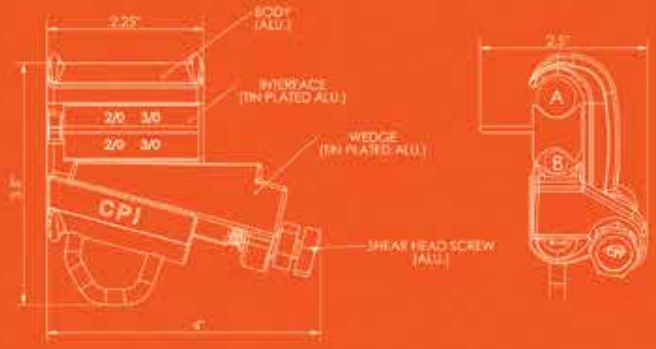
CPI™
Connector Products Inc.

PRODUCTS FOR THE RAIL AND UTILITY INDUSTRY



connectorproducts.com
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CATALOG IX.1

American Design American Made

Our success comes from a philosophy of designing products on a cross-functional level with input from the sales, engineering and production departments.

What Makes Us Different?

Connector Products, Inc. (CPI) designs and manufactures electrical connectors and accessories for power utilities and mass transit railroad systems. As a third generation family business founded in 1973 by Mario Polidori, CPI is continually growing and expanding our product line. We listen to the needs of our costumers and then design sensible solutions. Essentially, we offer customers access to our manufacturing expertise to make their visions or designs come to life.

What connecting really means to CPI.

Since 1980 Connector Products, Inc. has provided electrical connectors for major power utility transmission and distribution systems across the United States and throughout the world.

Our business is built on the core pillars of **Quality, Delivery** and **Price**. We strive to provide our customers with unique and innovative products at a competitive price, delivered in a reasonable amount of time, while maintaining the highest possible quality.

After serving in the United States of America Army during World War II, Mr. Polidori subsequently earned an Engineering degree from Drexel University while simultaneously working at American Engineering.

Mr. Polidori has invented and patented several types of connectors, which are still in use to this day.

Our Company founder developed the wedge style connector over forty years ago and has continued to contribute to its progress over time. Today, Connector Products, Inc. offers the only true wedge style bolted connector on the market.

The CPI tap connector's ability to be installed or removed without specialized tooling combined with the capability of accommodating a wide range of wire sizes is what makes this product the first choice for some of the largest utility companies across the country.

Production

is always conducted in an environmentally friendly manner and always in the USA. All of our suppliers are domestically located and are under constant evaluation for quality, delivery time, price and environmental impact.

Product Catalog

TABLE OF CONTENTS

CPI Connector Products Inc. "Better Products by Design"

#4 thru 4/0 Series Copper Tap

CPI Copper Taps

are designed for use as a permanent connection on copper wire or solid rod.

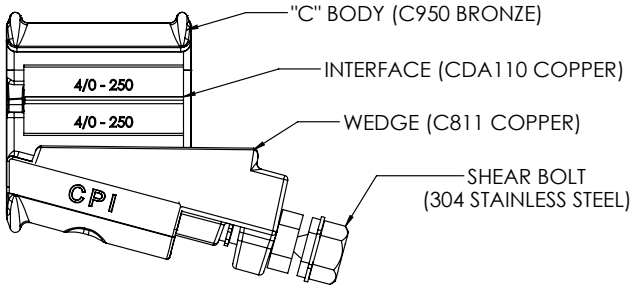
Any good electrical connection must be mechanically strong, electrically conductive and easy to install. The CPI wedge connector accomplishes this with the use of high strength bronze alloy, pure copper and a unique shear head bolt.

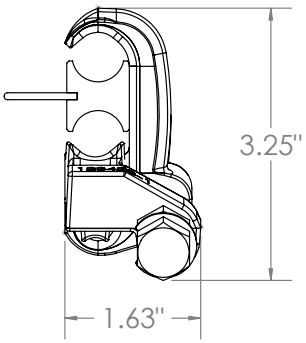
Torque applied to Shear Bolt drives the wedge into the connector and causes a deflection in the "C" body. This deflection creates a spring pressure mechanical connecting force on the conductors for optimum electrical conductivity.

When the proper spring tension is achieved, the Shear Head Bolt will break off giving the installer a positive indication of a correctly completed connection. This eliminates the need for any specialized tools or torque wrenches.

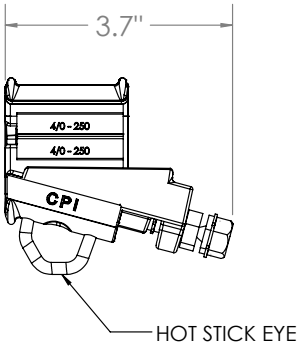
Features

- Utilizes the industry-proven spring wedge principal and is easy to install with a common socket or impact wrench.
- No Special Tools Required.
- Can be installed overhead or buried directly underground.
- Meets or exceeds the current carrying capacity of the conductors being connected.
- The "Spring Like" qualities of the high strength C-Body ensure a permanent connection with consistent pressure on the conductors.
- Installation time is quicker than conventional crimp-type or molded joints.
- Constructed of corrosion resistant yet highly conductive copper and bronze alloys with a pure copper insert between the conductors to further increase conductivity and lower electrical resistance.
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- Easy to remove without damaging cable.
- Optional Hot Stick version can be easily adapted to standard hot stick tools.

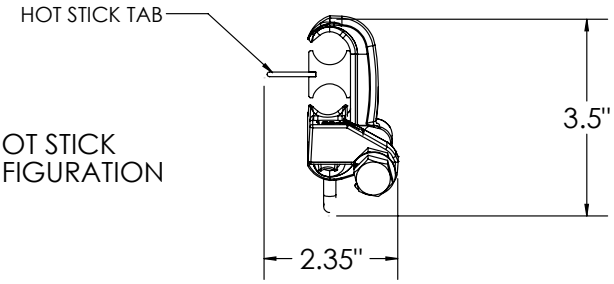




NOTE: PLEASE ADD THE SUFFIX "HS" TO THE PART # WHEN ORDERING THE HOT STICK CONFIGURATION
EX: 240100CHS



HOT STICK CONFIGURATION



Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
#4 Cu #1 (7 STR)	.232" - .328"	#6 SOL - #4 SOLID	.162" - .204"	240100C
		#4 STR - #2 SOLID	.232" - .260"	240101C
		#1 SOL - #2 STR	.281" - .325"	240102C
1/0 Cu 2/0 Cu	.368" - .419"	#6 SOL - #4 SOL	.162" - .204"	210103C
		#4 STR - #2 SOL	.232" - .260"	210104C
		#1 SOL - #2 STR	.281" - .325"	210105C
		1/0 - 2/0	.368" - .419"	210106C
3/0 Cu	.464" - .500"	#6 SOL - #4 SOL	.162" - .204"	230107C
		#4 STR - #2 SOL	.232" - .260"	230108C
		#1 SOL - #2 STR	.281" - .325"	230109C
		1/0 - 2/0	.368" - .419"	230110C
		3/0	.464" - .474"	230111C
4/0	.500" - .530"	#6 SOL - #4 SOLID	.162" - .204"	264110C
		#4 STR - #2 SOLID	.232" - .260"	264111C
		#1 SOL - #2 STR	.281" - .325"	264112C
		1/0 - 2/0	.368" - .419"	264113C
		3/0	.440" - .474"	264114C
		4/0	.500" - .530"	264115C
266.8 ACSR 300 MCM 336.4 AAC 336.4 ACSR 18/1 350 MCM	.609" - .684"	#6, #4 AAC	.162" - .232	350117C
		#4	.232" - .257"	350118C
		#2, #1 AAC	.292" - .328"	350119C
		#1, 1/0 AAC	.328" - .368"	350120C
		1/0 ACSR, 2/0	.398" - .447"	350121C
		2/0 ACSR, 3/0	.447" - .502"	350122C
		4/0, 250	.522" - .574"	350123C
		266.8 -19 AAC, 300 AAC, 266.8 ACSR	.592" - .642"	350124C
		300 ACSR 26/7, 350, 336.4 18/1	.665" - .684"	350125C

STANDARD PACKAGE: Full Carton: 25 Units: 11" x 11" x 11.5" Box. Half Carton: 15 Units: 11" x 11" x 7" Box.

CPI Connector Products Inc. "Better Products by Design"

#4 thru 4/0 Series Tap

CPI Aluminum Tap Connectors

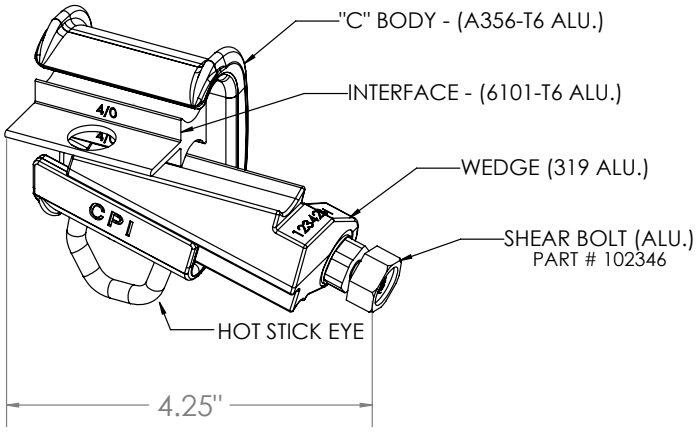
consist of a spring-like "C"-Body & wedge combined with a "shear-head" bolt. Offering a High Performance permanent connection that is Low Resistance, Durable and Easy to Install. The spring body of the connector will flex and maintain a constant force as thermal cycling causes conductors to expand and contract.

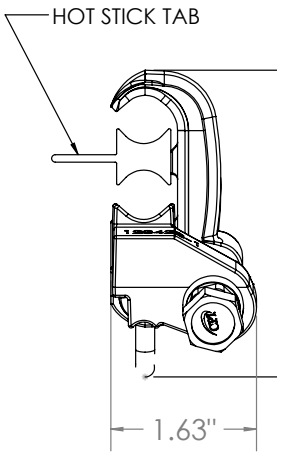
During installation, when proper torque is achieved, the Shear Head Bolt will break off giving the installer a positive indication of a correctly completed connection.

After years of successful installations, the CPI wedge design has become the only leading wedge system that can be installed without specialized tooling, providing a safe and easy installation that reduces or eliminates tooling inventory, maintenance and repair expense.

Features

- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Meets or exceeds the current carrying capacity of the conductors being connected.
- Easy to remove and re-use without damaging the conductor.
- Recommended for use in critical high load areas and on overloaded circuits, as well as everyday applications.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have Shoot-On or compression tooling.





Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
3/8" guy wire 2/0 AAC	.358" - .418"	#2 Cu	.257" - .292"	**210104**
#6	.162" - .232"	#6, #4 SOLID	.162" - .204"	**640101**
#4 #2 #1 AAC	.232" -.328"	#6, #4 SOLID	.162" - .204"	**240100**
		#4	.232" - .257"	**240101**
		#2, #1 AAC	.292" - .328"	**240102**
#1 ACSR 1/0 2/0 AAC	.354" - .414"	#6 ACSR, #4 AAC	.198" - .232"	**210103**
		#4 , #2 AAC	.257" - .292"	**210104**
		#4 AAC, #2, #1 AAC	.232" - .328"	**210105**
		#1 ACSR, 1/0, 2/0 AAC	.354" - .414"	**210106**
2/0 ACSR 3/0	.447" - .502"	#6 ACSR, #4 AAC	.198" - .232"	**230107**
		#4, #2 AAC	.232" - .292"	**230108**
		#2 AAC, #1	.292" - .354"	**230109**
		#1 ACSR, 1/0, 2/0 AAC	.354" - .414"	**230110**
		2/0 ACSR, 3/0	.447" - .502"	**230111**
3/0 ACSR 4/0 250 AAC	.502" - .574"	#6 ACSR, #4 AAC	.198" - .232"	**264111**
		#4 ACSR, #2, #1 AAC	.250" - .328"	**264112**
		#1 ACSR, 1/0, 2/0 AAC	.354" - .414"	**264113**
		2/0 ACSR, 3/0,	.447" - .502"	**264114**
		4/0, 250 AAC	.522" - .574"	**264115**

STANDARD PACKAGE: Full Carton: 75 Units: 11" x 11" x 11.5" Box: 38 Lbs. Half Carton: 50 Units: 11" x 11" x 7" Box: 25 Lbs.

CPI Connector Products Inc. "Better Products by Design"

350 Series Tap

CPI Aluminum Tap Connectors

consist of a spring-like "C"-Body & wedge combined with a "shear-head" bolt. Offering a High Performance permanent connection that is Low Resistance, Durable and Easy to Install. The spring body of the connector will flex and maintain a constant force as thermal cycling causes conductors to expand and contract.

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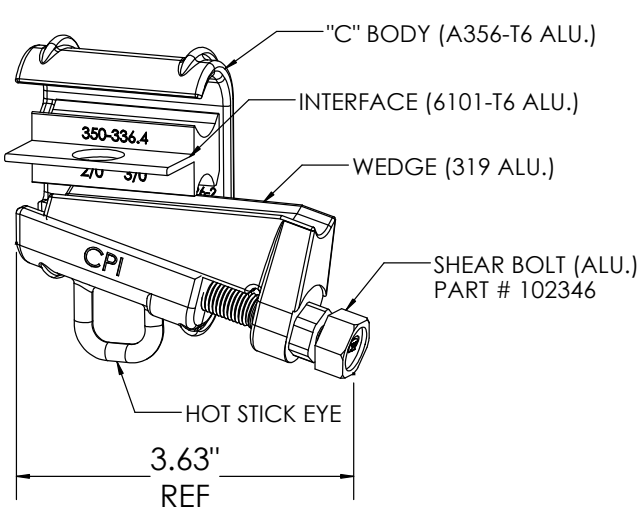
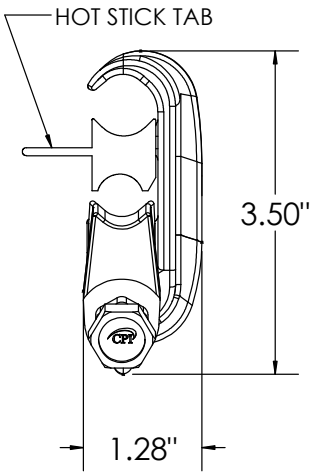
Features

- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Meets or exceeds the current carrying capacity of the conductors being connected.
- Easy to remove and re-use without damaging the conductor.
- Recommended for use in critical high load areas and on overloaded circuits, as well as everyday applications.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have Shoot-On or compression tooling.





Main Conductor		Tap Conductor		Catalog #
Description	**Dia. Range**	**Description**	**Dia. Range**	
266.8 ACSR 300 MCM 336.4 AAC 336.4 ACSR 18/1 350 MCM	.609" - .684"	#6, #4 AAC	.162" - .232	**350117**
		#4	.232" - .257"	**350118**
		#2, #1 AAC	.292" - .328"	**350119**
		#1, 1/0 AAC	.328" - .368"	**350120**
		1/0 ACSR, 2/0	.398" - .447"	**350121**
		2/0 ACSR, 3/0	.447" - .502"	**350122**
		4/0, 250	.522" - .574"	**350123**
		266.8 -19 AAC, 300 AAC, 266.8 ACSR	.592" - .642"	**350124**
		300 ACSR 26/7, 350, 336.4 18/1	.665" - .684"	**350125**

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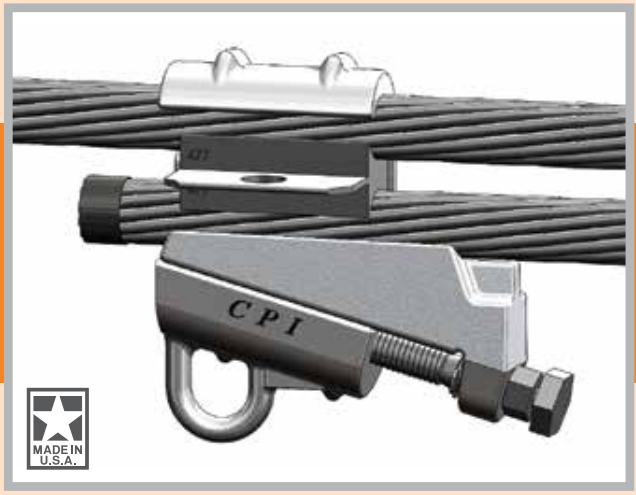
CPI Connector Products Inc. "Better Products by Design"

336.4 thru 636 Series Tap



CPI Aluminum Tap Connectors

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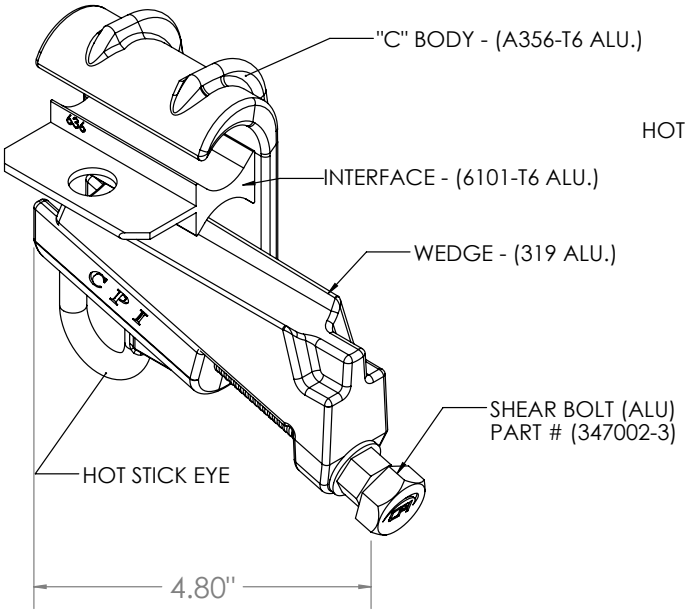
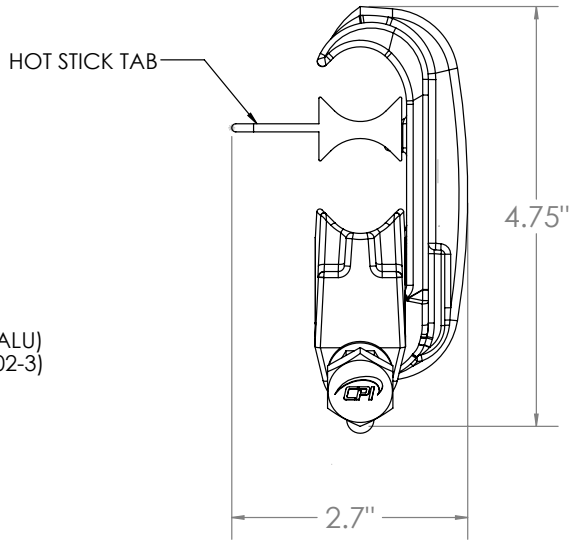
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Meets or exceeds the current carrying capacity of the conductors being connected.
- Easy to remove and re-use without damaging the conductor.
- Recommended for use in critical high load areas and on overloaded circuits, as well as everyday applications.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have Shoot-On or compression tooling.

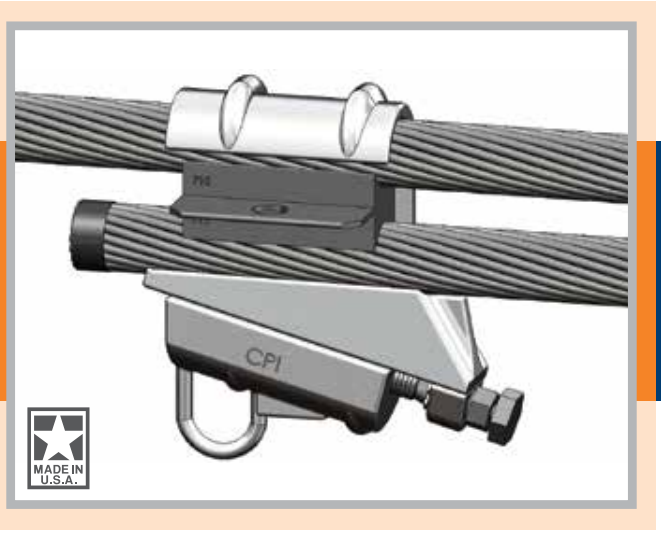




Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
300 AAC 350 AAC	.63" - .68"	#2 Cu	.257" - .292"	**336222**
336.4 350 MCM 397 ACSR 18/1	.666" - .743"	#6, #4	.162" - .257"	**336200**
		#4 ACSR, #2, 1/0 AAC	.257" - .368"	**336104**
		1/0, 2/0, 3/0	.368" - .502"	**336012**
		4/0 ACSR, 266.8 AAC	.522" - .592"	**336866**
		266.8 ACSR 36/7, 336.4, 397.5	.642" - .806"	**336718**
397 ACSR 24/7 450 MCM 477 500 MCM 556.5 AAC	.769" - .858"	#6, #4, #2	.162" - .316"	**477057**
		#2, 1/0	.292" - .398"	**477962**
		1/0 ACSR, 2/0, 3/0 AAC	.398" - .464"	**477853**
		3/0 ACSR, 4/0, 250, 266.8, 300 AAC	.502" - .628"	**477724**
		266.8 ACSR 36/7, 300 AAC, 336.4, 397.5 ACSR 24/7	.628" - .772"	**477633**
		336.4 ACSR 26/7, 397, 477, 500 MCM, 556 AAC	.720" - .858"	**477434**
477 ACSR 26/7 556 600 MCM 636 ACSR 18/1 605 ACSR	.856" - .953"	#6, #4, #2	.162" - .316"	**556956**
		#2, #1, 1/0	.292" - .398"	**556892**
		1/0 , 2/0, 3/0, 4/0 AAC	.368" - .522	**556783**
		4/0, 250, 266.8, 300 MCM, 336 AAC, 350 MCM	.522" - .680"	**556638**
		350 MCM, 336.4, 397.5, 477 AAC	.680" - .806"	**556504**
		397 ACSR 30/7, 477, 500 MCM, 556.5, 636 AAC	.795" - .918"	**556294**
		556.5 ACSR 24/7, 636 AAC, 636 ACSR 18/1, 605	.914" - .952"	**556294-1**

CPI Connector Products Inc. "Better Products by Design"

795 thru 1272 Series Tap



CPI Aluminum Tap Connectors

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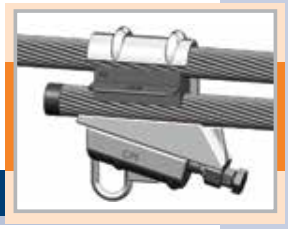
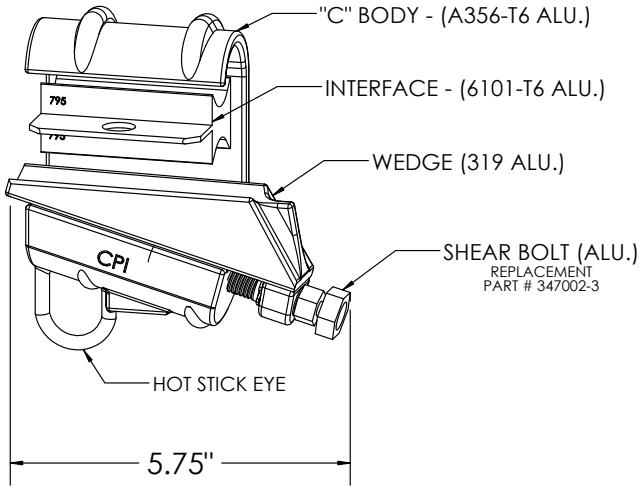
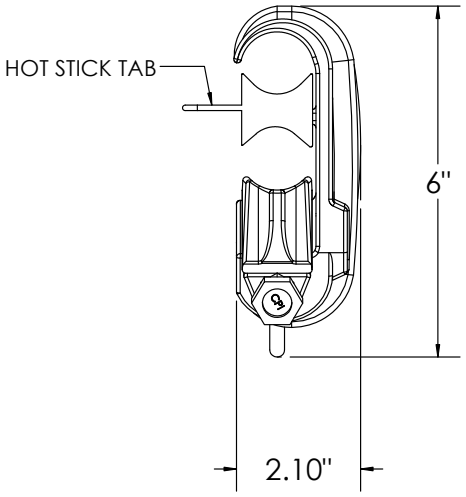
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Meets or exceeds the current carrying capacity of the conductors being connected.
- Easy to remove and re-use without damaging the conductor.
- Recommended for use in critical high load areas and on overloaded circuits, as well as everyday applications.
- Remains permanently locked through fault current or power surges
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have Shoot-On or compression tooling.







Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
636 ACSR 715 750 MCM 795 900 MCM	.973" - 1.108"	#6, #4, #2 AAC	.162" - .292"	**795454**
		#2 ACSR, #1, 1/0, 2/0 AAC	.316" - .414"	**795360**
		2/0 ACSR, 3/0, 4/0, 250 AAC	.447" - .574"	**795218**
		266.8, 300 MCM, 350 MCM, 336.4 ACSR 18/1	.586" - .684"	**795050**
		336.4 ACSR 26/7, 450 MCM, 500 MCM, 477, 556.5 AAC	.720" - .858"	**795920**
		477 ACSR 30/7, 556.5 ACSR, 600 MCM, 605 MCM, 636 ACSR 18/1, 715.5 AAC	.879" - .975"	**795730**
		636 ACSR 26/7, 750 MCM, 715, 795, 900 MCM	.991" - 1.108"	**795594**
954 900 ACSR 1000 MCM 1113 AAC 1033.5 AAC	1.124" - 1.196"	#6, #4, #2 AAC	.162" - .292"	**954420**
		#2 ACSR, #1, 1/0, 2/0 AAC	.316" - .414"	**954320**
		2/0 ACSR, 3/0, 4/0, 250 AAC	.447" - .574"	**954175**
		266.8, 300 MCM, 350 MCM, 366.4 ACSR 18/1	.586" - .684"	**954030**
		366.4 ACSR 26/7, 450 MCM, 397.5, 477, 500 MCM, 556.5 AAC	.720" - .856"	**954870**
		477ACSR 26/7, 556, 605, 715 AAC, 636ACSR 26/7	.858" - .991"	**954660**
		666.6 ACSR 24/7, 715 ACSR, 795, 900 AAC	1.000" - 1.093"	**954484**
		795ACSR 26/7, 954, 1113 MCM, 900 ACSR, 1000 MCM, 1033.5 AAC	1.107" - 1.196"	**954390**
1033.5 ACSR 1113 ACSR 1192 AAC 1272 AAC	1.212" - 1.300"	#6, #4, #2 AAC	.162" - .292"	**103370**
		#2 ACSR, #1, 1/0, 2/0 ACC	.316" - .414"	**103260**
		2/0 ACSR, 3/0, 4/0 AAC	.447" - .522"	**103110**
		4/0 ACSR, 250 MCM, 266.8, 300 MCM	.563" - .642"	**103945**
		350 MCM, 336.4, 397.5, 450 MCM	.665" - .783"	**103780**
		397.5 ACSR 30/7, 477, 500 MCM, 556 AAC, 600 MCM	.795" - .893"	**119793**
		556.5 ACSR 24/7, 636, 715 ACSR 24/7, 750 MCM, 795 AAC	.914" - 1.036"	**103680**
		795 ACSR 36/1, 900, 954 AAC, 1000 AAC, , 1113 MCM	1.040" - 1.151"	**103580**
		900 ACSR 45/7, 1033.5, 954 ACSR, 1192.5 AAC	1.162" - 1.258"	**103380**
		1113 ACSR, 1272 AAC	1.212" - 1.300"	**119250**

STANDARD PACKAGE: Full Carton: 20 Units: 11" x 11" x 11.5" Box: 36 Lbs. Half Carton: 10 Units: 11" x 11" x 7" Box: 18 Lbs.

CPI Connector Products Inc. "Better Products by Design"

1272 thru 2150 Series Tap

CPI Aluminum Tap Connectors

consist of a spring-like "C"-Body & wedge combined with a "shear-head" bolt. Offering a High Performance permanent connection that is Low Resistance, Durable and Easy to Install. The spring body of the connector will flex and maintain a constant force as thermal cycling causes conductors to expand and contract.

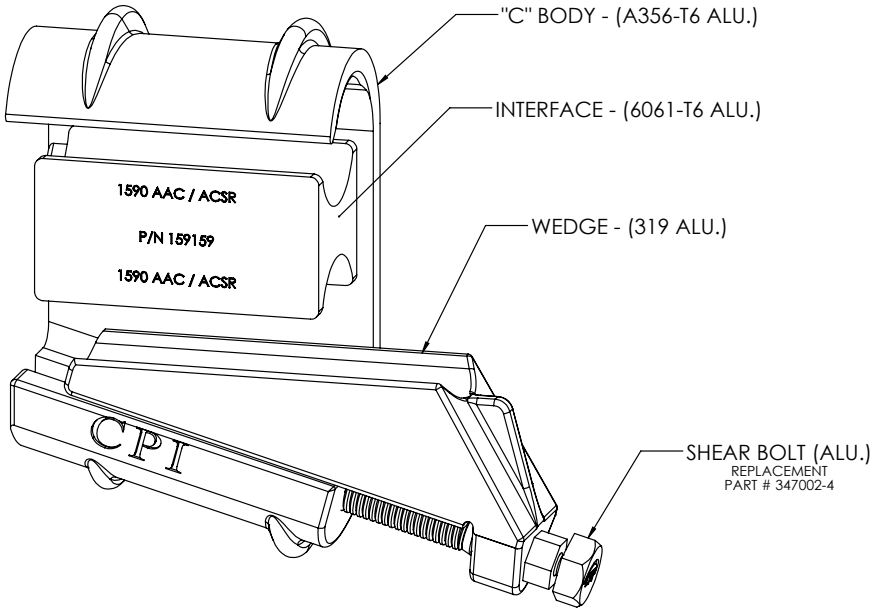
During installation, when proper torque is achieved, the Shear Head Bolt will break off giving the instal ler a positive indication of a correctly completed connection.

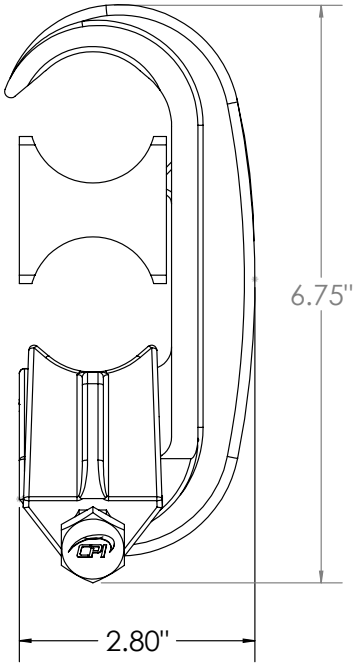
After years of successful installations, the CPI wedge design has become the only leading wedge system that can be installed without specialized tooling, providing a safe and easy installation that reduces or eliminates tooling inventory, maintenance and repair expense.

Features

- Specially designed to be used in high voltage applications up to 230kV. 500kV lines will require a corona ring.
- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Can be installed on shorter conductor lengths that compression type connections. This is especially beneficial in Substations.
- Designed as a permanent connection on solid & stranded aluminum alloy conductors. AAC, AAAC, ACSR, ACAR, AWAC, ACSS.
- Installation time is quicker than conventional crimp-type or molded joints.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Easy to remove and re-use without damaging the conductor.
- Remains permanently locked through fault current or power surges.
- Contact CPI directly for your individual needs if your conductor combination is not listed.

1272 - 2150 SERIES TAP CONNECTORS





Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
1351.5 AAC 1272 1431 AAC 1351.5 ACSR 45/7	1.340" - 1.386"	#6, #4, #2	.162" - .316"	127004
		#1, 1/0, 2/0	.328" - .447"	127100
		3/0, 4/0, 250	.464" - .574"	135400
		266.8, 350, 336.4 ACSR 18/1	.586" - .684"	127300
		556.5 ACSR 24/7, 636, 750, 795 AAC 61	.914" - 1.036"	127556
		795, 900, 954, 1000MCM	1.040" - 1.196"	127954
		1113 ACSR 54/19, 1272, 1351.5 ACSR 45/7	1.292" - 1.386"	127128
1351.5 ACSR 54/19	1.424"	#2 ACSR	0.316"	135002
		397.5 ACSR 18/1	0.743"	135397
		636 ACSR 26/7	0.991"	135636
		1351.5 ACSR 54/19	1.424"	135135
1590 AAC 61 1590 ACSR 45/7	1.454" - 1.504"	4/0 AAC SOL.	0.460"	159400
		336.4 ACSR 26/7	0.721"	159336
		795 AAC 61	1.028"	159795
		795 ACSR 45/7	1.063"	159796
		1272 ACSR 45/7	1.345"	159127
		1590 ACSR 45/7	1.504"	159159
1843.2 ACSR 72/7	1.604"	795.5 ACSR 26/7	1.108"	184795
2167 ACSR 72/7	1.737"	556.5 ACSR 24/7	0.914"	216556
2500 AAC	1.824"	500 Cu 19	0.811"	250500
		250 AAC	1.824"	250250

FOR ANY CONDUCTOR COMBINATION NOT LISTED ABOVE, CONTACT CPI FACTORY DIRECTLY.

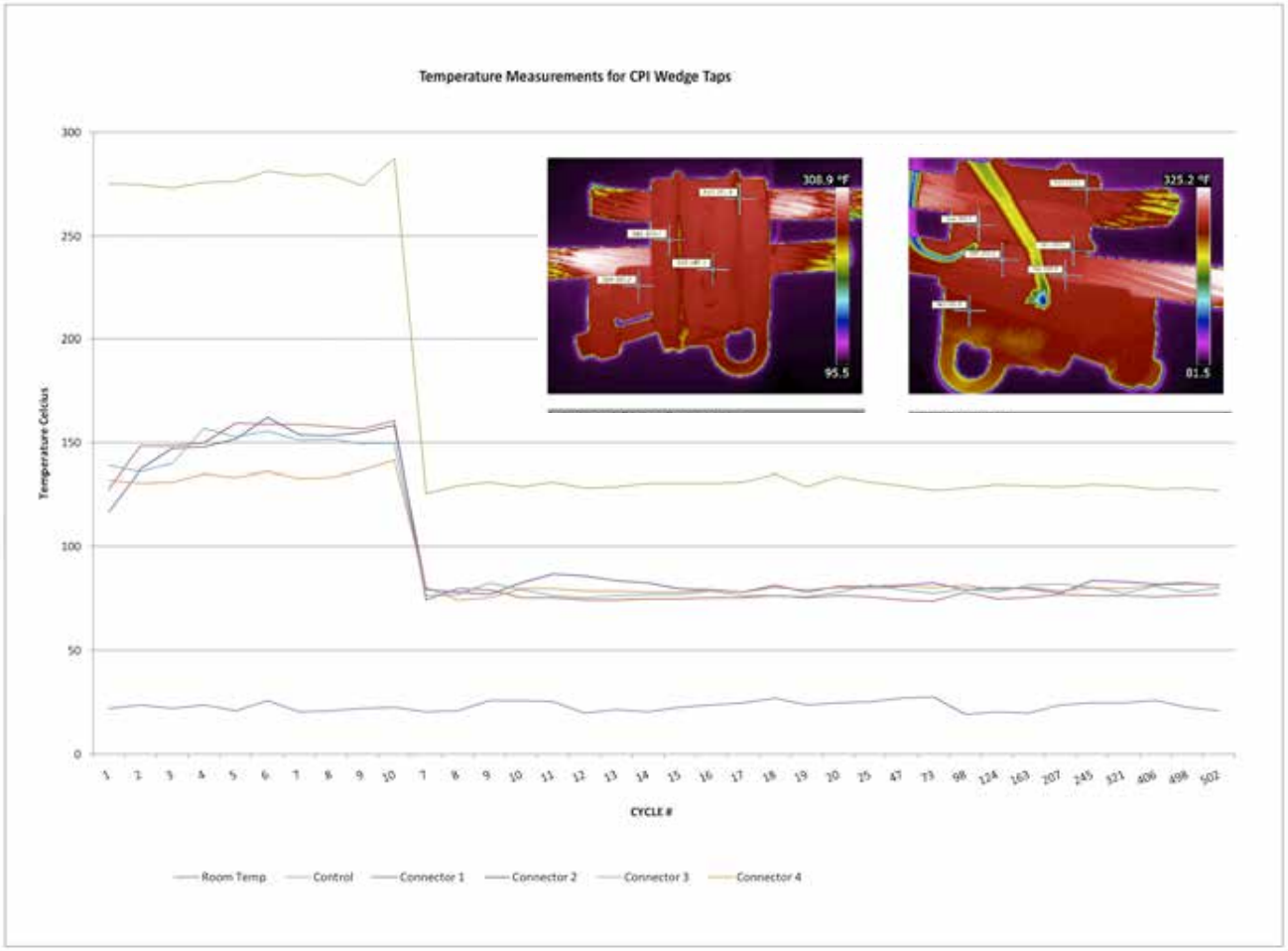
Connector Products Inc. "Better Products by Design"

Tap Connector Test Performance

The chart below illustrates the performance characteristics of CPI Wedge Tap Connectors during extreme conductor overload conditions.

The Test loop was installed with four connector samples as per ANSI C119.4 standards.

The connectors were subjected to an overload current for 10 cycles at 250°C / (4 hour cycles). Followed by a standard current for 500 cycles at 100°C/ (1.5 hour cycles). All the connectors remained intact and passed the test well within the ANSI C119.4 criteria.



MAIN CONDUCTOR		TAP CONDUCTOR		CATALOG #
DESCRIPTION	DIA. RANGE	DESCRIPTION	DIA. RANGE	
3/8" guy wire 2/0 AAC	.358" - .418"	#2 Cu	.257" - .292"	210104
#6	.162" - .232	#6 #4 SOLID	.162" - .213"	640101
#4 AAC #4 ACSR #2 ACSR	.232" - .328"	#6 SOL, #4 SOLID	.162" - .204"	240100
		#4, #2 SOLID	.232" - .257"	240101
		#2, #1 AAC	.292" - .328"	240102
#1 ACSR 1/0 AAC 2/0 AAC	.354" - .414"	#6 ACSR, #4 AAC	.198" - .232"	210103
		#4, #2, #1 AAC	.232" - .325"	210105
		#1 ACSR, 1/0, 2/0 AAC	.355" - .414"	210106
2/0 ACSR 3/0 ACSR	.447" - .502"	#6 ACSR, #4 AAC	.198" - .232"	230107
		#4, #2 AAC	.232" - .292"	230108
		#2 ACSR, #1	.292" - .354"	230109
		1/0, 2/0 AAC	.354" - .414"	230110
		2/0, 3/0	.447" - .502"	230111
4/0 AAC 4/0 ACSR 250 KCMILS	.502" - .570"	#6 ACSR, #4 AAC	.198" - .232"	264111
		#4 ACSR, #2, #1 AAC	.250" - .328"	264112
		#1 ACSR, 1/0, 2/0 AAC	.354" - .414"	264113
		2/0, 3/0,	.447" - .502"	264114
		4/0, 250 AAC	.522" - .574"	264115
266.8 ACSR 300 KCMILS 336.4 AAC 336.4 ACSR (18/1) 350 KCMILS	.609" - .684"	#6 SOL, #4 AAC	.162" - .232	350117
		#4	.232" - .257"	350118
		#2, #1 AAC	.276" - .328"	350119
		#1, 1/0 AAC	.328" - .382"	350120
		1/0 ACSR, 2/0	.398" - .447"	350121
		2/0 ACSR, 3/0	.447" - .502"	350122
		4/0, 250	.522" - .574"	350123
		266.8 -19 AAC, 300 AAC, 266.8 ACSR	.592" - .642"	350124
		350, 336.4 18/1	.665" - .684"	350125
300 AAC - 350 AAC	.63" - .68"	#2 Cu	.257" - .292"	336222
336 AAC 336 ACSR 350 MCM 397 ACSR 18/1	.666" - .743"	#6 SOL, #4	.162" - .257"	336200
		#4 ACSR, #2, 1/0 AAC	.257" - .368"	336104
		1/0 AAC, 2/0, 3/0,	.368" - .502"	336012
		4/0 ACSR, 266.8 AAC	.522" - .592"	336866
		266.8 ACSR 36/7, 336.4, 397.5	.642" - .806"	336718
450 MCM 477 AAC 477 ACSR 500 MCM 556.5 AAC	.770" - .858"	#6 SOL, #4, #2	.162" - .316"	477057
		#2AAC, 1/0 ACSR	.292" - .398"	477962
		1/0ACSR, 2/0, 3/0AAC	.398" - .464"	477853
		3/0ACSR, 4/0, 300 AAC	.502" - .628"	477724
		300AAC, 336.4, 397.5 ACSR 24/7	.628" - .772"	477633
		336.4 ACSR 26/7, 477, 556 AAC 37 str.	.720" - .858"	477434
477 ACSR 26/7 556 AAC 600 MCM 556 ACSR 30/7 636 ACSR 18/1	.856" - .953"	#6 SOL, #4, #2	.162" - .316"	556956
		#2, 1/0	.292" - .398"	556892
		1/0 , 2/0, 3/0, 4/0 AAC	.368" - .522	556783
		4/0, 266.8, 300 MCM, 336 AAC, 350 MCM	.522" - .680"	556638
		350 MCM, 336.4 AAC, 397.5	.680" - .806"	556504
		477, 556.5, 636 AAC 37	.795" - .918"	556294
		556.5 ACSR 24/7, 636 AAC, 605	.914" - .952"	556294-1
715 AAC 750 MCM 795 AAC 795 ACSR	.973" - 1.108"	#6SOL, #2AAC	.162" - .292"	795454
		#2ACSR, 1/0, 2/0AAC	.316" - .414"	795360
		2/0ACSR, 3/0, 250AAC	.447" - .574"	795218
		266.8AAC-7 str, 336.4ACSR 18/1	.586" - .684"	795050
		336.4ACSR 26/7, 477, 556.5AAC 37	.720" - .858"	795920
		556.5ACSR 18/1, 636, 715.5AAC 61 str.	.879" - .975"	795730
		636ACSR 26/7, 795ACSR 26/7	.991" - 1.108"	795594
954 AAC 954 ACSR 1000 MCM 1033.5 AAC	1.124" - 1.196"	#6SOL, #2AAC	.162" - .292"	954420
		#2ACSR 6/1, 1/0, 2/0AAC	.316" - .414"	954320
		2/0ACSR 6/1, 3/0, 250AAC 7	.447" - .574"	954175
		266.8AAC 7 str., 366.4ACSR 18/1	.586" - .684"	954030
		366.4ACSR 26/7, 397.5, 556.5AAC 19	.720" - .856"	954870
		477ACSR 26/7, 636ACSR 26/7	.858" - .991"	954660
		666.6ACSR 24/7, 900AAC 61 str.	1.000" - 1.093"	954484
		795ACSR 26/7, 954ACSR 54/7	1.107" - 1.196"	954390
1033.5 AAC 45/7 1033.5 ACSR 1113 AAC 1113 ACSR 1192 AAC 1272 AAC	1.212" - 1.300"	#6SOL, #2AAC	.162" - .292"	103370
		#2ACSR, 1/0, 2/0ACC	.316" - .414"	103260
		2/0ACSR, 3/0, 4/0AAC	.447" - .522"	103110
		4/0ACSR, 266.8ACSR 36/7	.563" - .642"	103945
		366.4AAC, 397.5ACSR 26/7	.665" - .783"	103780
		477AAC, 600MCM	.795" - .893"	119793
		556.5ACSR 24/7, 715.5ACSR 24/7	.914" - 1.036"	103680
		795ACSR 36/1, 795, 900ACSR 45/7; 1000 AAC	1.040" - 1.151"	103580
		900ACSR 54/7, 1033.5, 954 ACSR 54/7 1192.5AAC	1.162" - 1.258"	103380
		795ACSR 36/1, 795, 900ACSR 45/7	1.040" - 1.151"	103580-1
		1113 ACSR, 1272 AAC 54/19, 1272 AAC 61 str.	1.212" - 1.300"	119250

Connector Products Inc. "Better Products by Design"

Tap Covers

CPI Tap Covers

are used to electrically insulate Wedge Tap connectors from neighboring connectors on adjacent phases, exposed ground conductors, nearby grounded structures or vegetation. These covers are intended for casual contact only and are not for use as personal protection. Typical applications are 600-volt maximum insulated-conductor overhead applications.

Features

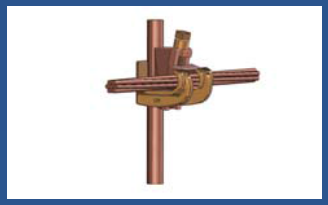
- Part # 336100
- 600 Volt Maximum overhead application rating.
- One size fits connectors ranging from 336.4 through 1272AAC.
- Easy one hinge design with self locking closure.
- Louvered side panels for ventilation and ease of installation.
- Made from UV inhibited, injection molded polypropylene for durability and resistance to cold cracking.

TIRED OF THE OLD SHELL GAME?

EXPERIENCE THE CPI SHELL-FREE WEDGE SYSTEM.

GUARANTEED TO INSTALL CORRECTLY THE FIRST TIME WITH NO MIS-FIRES.

Don't gamble on tooled connectors and lose. Choose CPI's industry proven *Shear-Bolt* wedge connectors for connecting utility distribution and transmission applications. They're safe and simple to install from bucket, board, or pole. CPI wedge connectors require no special tooling and have been used in the field for over 30 years without misfires or duds.




When it's all said and done at the end of the day we have our own standards to meet, but
ISO Certification
affords us the obligation and opportunity to expand our methods of operation.

HOT-STICK INSTALLATION INSTRUCTIONS

1) Hook Tap with Hot Stick.

2) Place Tap Connector on conductors.
Use Piggy-Back Clamp to hold conductors in place.
Note: See page 22 for Piggy-Back Clamp ordering info.

3) Hook Interface with Hot-Stick.

4) Insert Interface into connection.

5) Lock the Connector by driving the Shear Head Bolt with a standard hex drive device.

6) The Shear Head Bolt will break off at 12-15 [ft-lbs]. of torque which yields approximately 3000 lbs. of connecting force on the conductor.

CPI Connector Products Inc. "Better Products by Design"

Piggy-Back Clamp

MADE IN U.S.A.

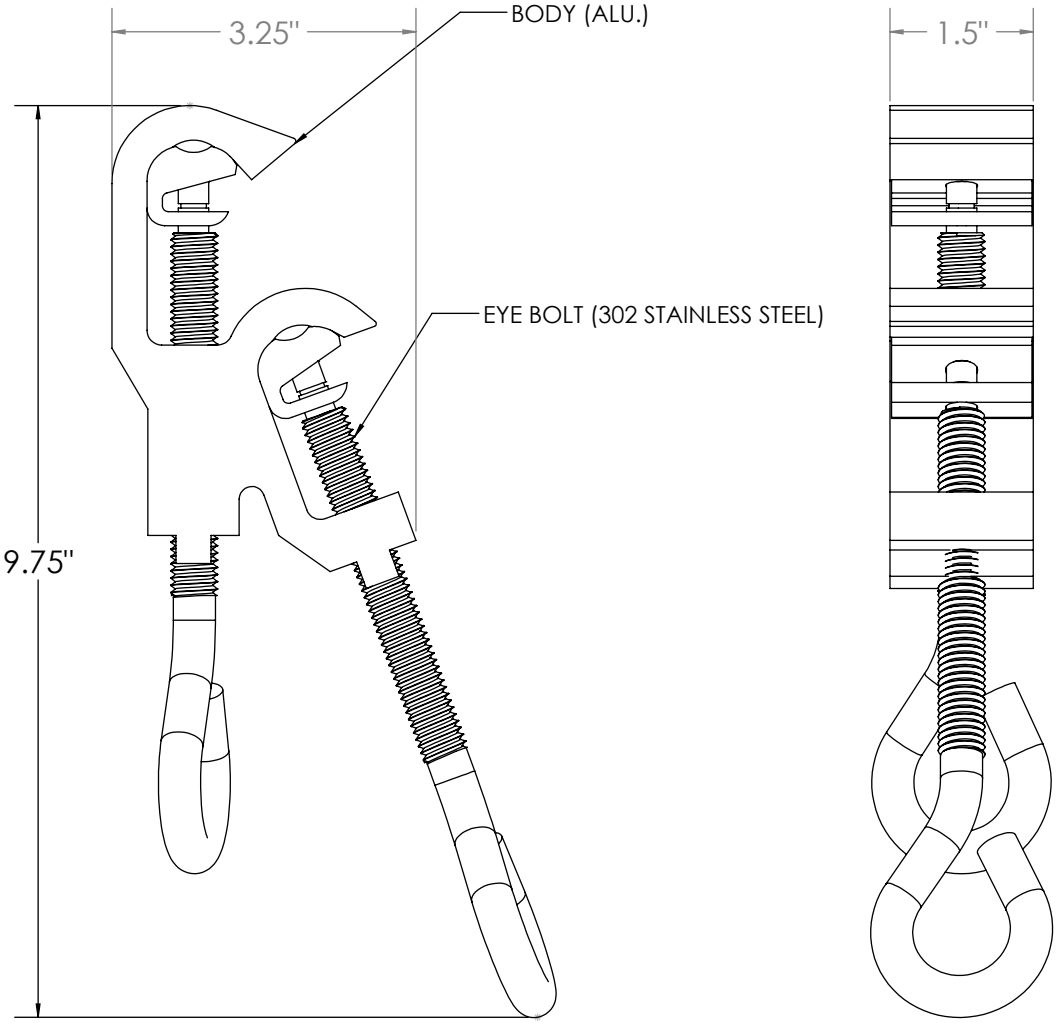
Piggy-Back Clamps

are designed to temporarily hold the tap conductor in position with the main conductor while a permanent connection is made elsewhere.

This versatile tool will assist the Lineman with the installation of many types of tap connectors, especially in Hot-Stick applications.

Features

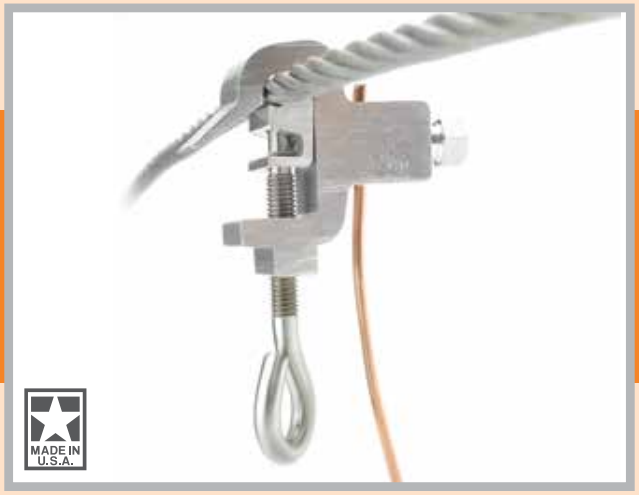
- Easy to remove and re-use without damaging the conductor.
- The Main Line can be held in either jaw.
- Temporary Connection Only. Not intended as a permanent connector.
- Accommodates wire sizes #8 thru 556.5.
- See corresponding page for product specifications and part numbers.



ORDERING INFORMATION			
Catalog Number	**Type.**	**Capacity Range**	**Wt. per 100**
6002248	Aluminum	#8 thru 556.5 ACSR 26/7	200 lbs.

CPI Connector Products Inc. "Better Products by Design"

HTC Straight Series Hotline Tap Connector



CPI HTC Straight Series

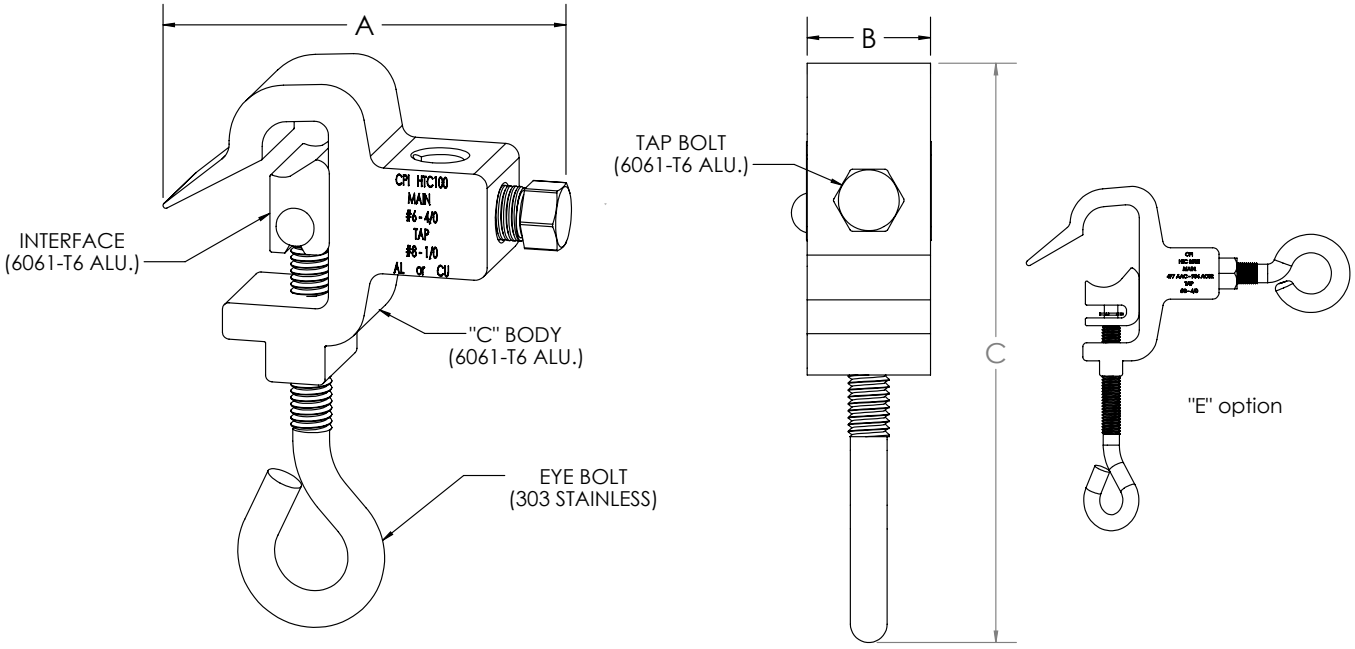
connectors are designed for use as a permanent or temporary connection on Aluminum or Copper wire.

Through utilization of the wedge principal, the HTC series tap maximizes connecting force on the conductor and creates a self-maintaing spring wedge connection.

The elastic spring connecting force created by the connector ensures the ability of the HTC to stay tight during service by overcoming the problems associated with heat cycling.

Features

- Full-current rated connector for use as an in-line jumper OR device tap.
- An increased conductive path and surface contact area between the main and tap line increases current ampacity rating.
- Typical applications are transformers, lightning arrestors, cutouts, etc.
- Can be installed directly to the main line. No need for using a bail or stirrup.
- Incorporates the use of a Stainless Steel eye bolt for increased strength and corrosion resistance.
- Constructed of 6061-T6 structural aluminum alloy to provide high strength and conductivity.
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- Horizontal wedge action prevents the conductor from "sticking" during the removal process.
- Easy to remove without damaging cable.



Main Conductor		Tap Conductor		
Description	Dia. Range	Description	Dia. Range	Catalog #
#6 Cu - 4/0	.162" - .563"	#8 - 1/0	.146" - .398"	HTC 100
		#8 - 4/0	.146" - .563"	HTC 100-4
1/0 ACSR - 556.5 AAC	.398" - .858"	#8 - 2/0	.146" - .447"	HTC 200
		#8 - 4/0	.146" - .563"	HTC 200-4
336.4 - 954 AAC	.665" 1.125"	#8 - 4/0	.146" - .563"	HTC 300

Dimensions			Catalog Number	Std. Package	
A	B	C		Qty	Lbs.
3.5"	1.125"	5.0"	HTC 100	50	25
			HTC 100-4	50	25
4.14"	1.5"	6.5"	HTC 200	25	25
			HTC 200-4	25	25
5.125"	1.75"	7.5"	HTC 300	25	38

Add suffix "R" to add full radius edges for transmission applications
Add suffix "E" to replace tap bolt with 1/2" eyebolt

HTC Angled Series Hotline Tap Connector

CPI HTC Angled Series

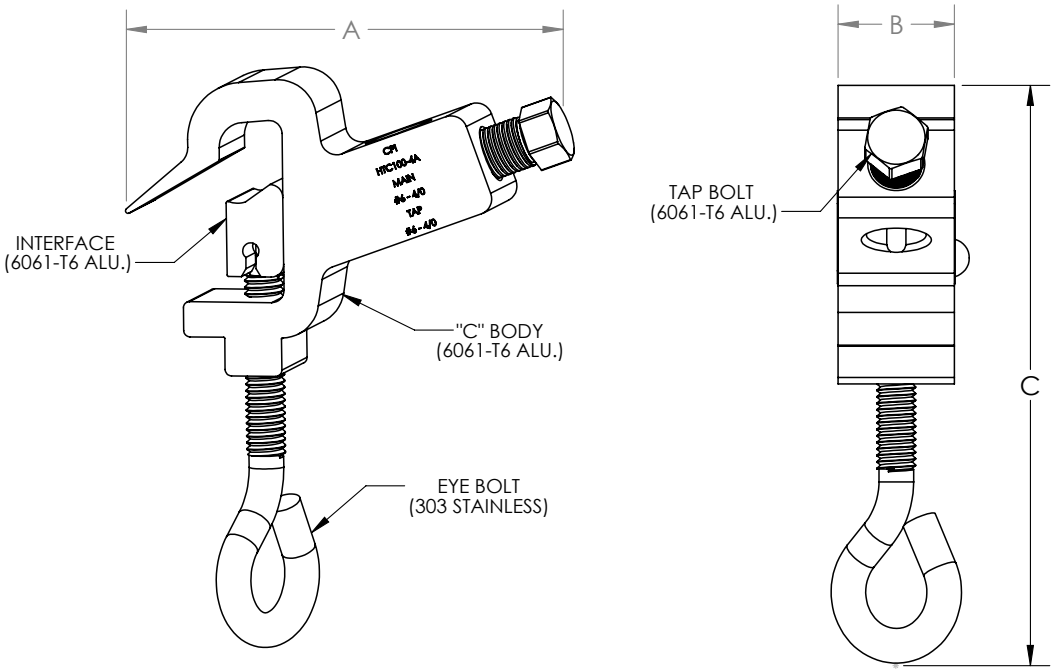
connectors are designed for use as a permanent or temporary connection on Aluminum or Copper wire.

Through utilization of the wedge principal, the HTC series tap maximizes connecting force on the conductor and creates a self-maintaing spring wedge connection.

The elastic spring connecting force created by the connector ensures the ability of the HTC to stay tight during service by overcoming the problems associated with heat cycling.

Features

- Angled tap side allows extra clearance of the tap conductor when using a shotgun stick
- Full-current rated connector for use as an in-line jumper OR device tap.
- An increased conductive path and surface contact area between the main and tap line increases current ampacity rating.
- Typical applications are transformers, lightning arrestors, cutouts, etc.
- Can be installed directly to the main line. No need for using a bail or stirrup.
- Incorporates the use of a Stainless Steel eye bolt for increased strength and corrosion resistance.
- Constructed of 6061-T6 structural aluminum alloy to provide high strength and conductivity.
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- Horizontal wedge action prevents the conductor from "sticking" during the removal process.
- Easy to remove without damaging cable.



Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
#6 - 4/0	.162" - .563"	#8 - 1/0	.128" - .398"	HTC 100A
		#6 - 4/0	.162" - .563"	HTC 100-4A
2/0 - 556.5 AAC	.398" - .858"	#8 - 2/0	.128" - .447"	HTC 200A
		#8 - 4/0	.128" - .563"	HTC 200-4A
#6 - 636 AAC	.162" - .905"	#8 - 266.8 AAC	.128" -.593"	HTC 212A
4/0 - 954 AAC	.522" - 1.125"	#8 - 4/0	.128" - .563"	HTC 300A
477 AAC - 954 ACSR	.792" - 1.196"	#8 - 4/0	.128" - .563"	HTC 350A

Dimensions			Catalog Number
A	B	C	
4.4"	1.125"	5.85"	HTC 100A
			HTC 100-4A
5"	1.5"	8"	HTC 200A
			HTC 200-4A
			HTC 212A
7"	1.75"	8.8"	HTC 300A
			HTC 350A

HTC Angled Stud Series Hotline Tap Connector

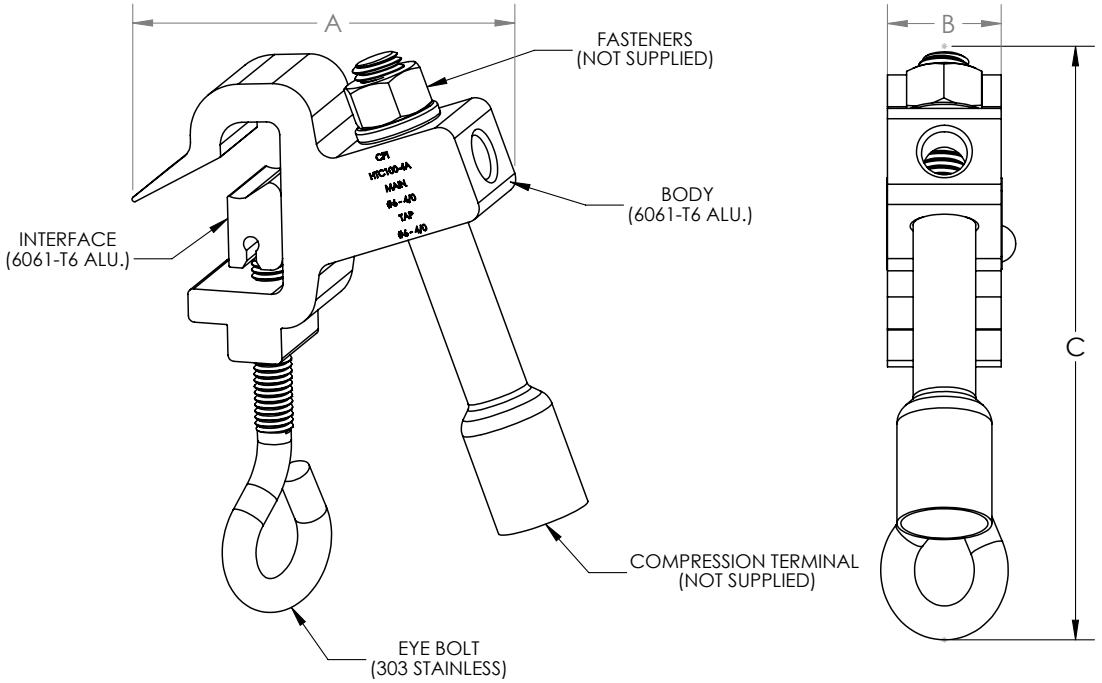
CPI HTC Angled Stud

series is designed for connecting to Aluminum or Copper conductors. The tap side is designed with a ½-13 threaded hole for use with a customer supplied compression sleeve that can be employed when using ultra flexible conductor during installation.

Through utilization of the wedge principal, the HTC AS series maximizes connecting force on the main conductor and creates a self-maintaining spring wedge connection.

Features

- ½-13 threaded tap hole comes factory ready to accept any type of lug or compression fitting.
- Full current rated connector for use as an in-line jumper or device tap.
- Typical applications are re-closers, transformers, lightning arrestors, cutouts, etc.
- Can be installed directly to the main line. No need for using a bail or stirrup.
- Incorporates the use of a stainless steel eye bolt for added strength and corrosion resistance.
- Constructed of 6061-T6 structural aluminum alloy to provide high strength and conductivity.
- Exclusive high conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Horizontal wedge action prevents the conductor from "sticking" during removal process.
- Easy to remove without damaging the cable.



Main Conductor		Stud	Catalog #
Description	Dia. Range	Description	
#6 - 4/0	.162" - .563"	1/2" - 13 Threaded	HTC 1AS
2/0 - 556 AAC	.398" - .858"		HTC 2AS
4/0 - 954 AAC	.522" - 1.125"		HTC 3AS

Dimensions			Catalog Number
A	B	C	
4.4"	1.125"	5.85"	HTC 1AS
5"	1.5"	8"	HTC 2AS
7"	1.75"	8.8"	HTC 3AS

CPI Connector Products Inc. "Better Products by Design"

HTC Limiting Fuse Series Hotline Tap Connector

CPI HTC Limiting Fuse

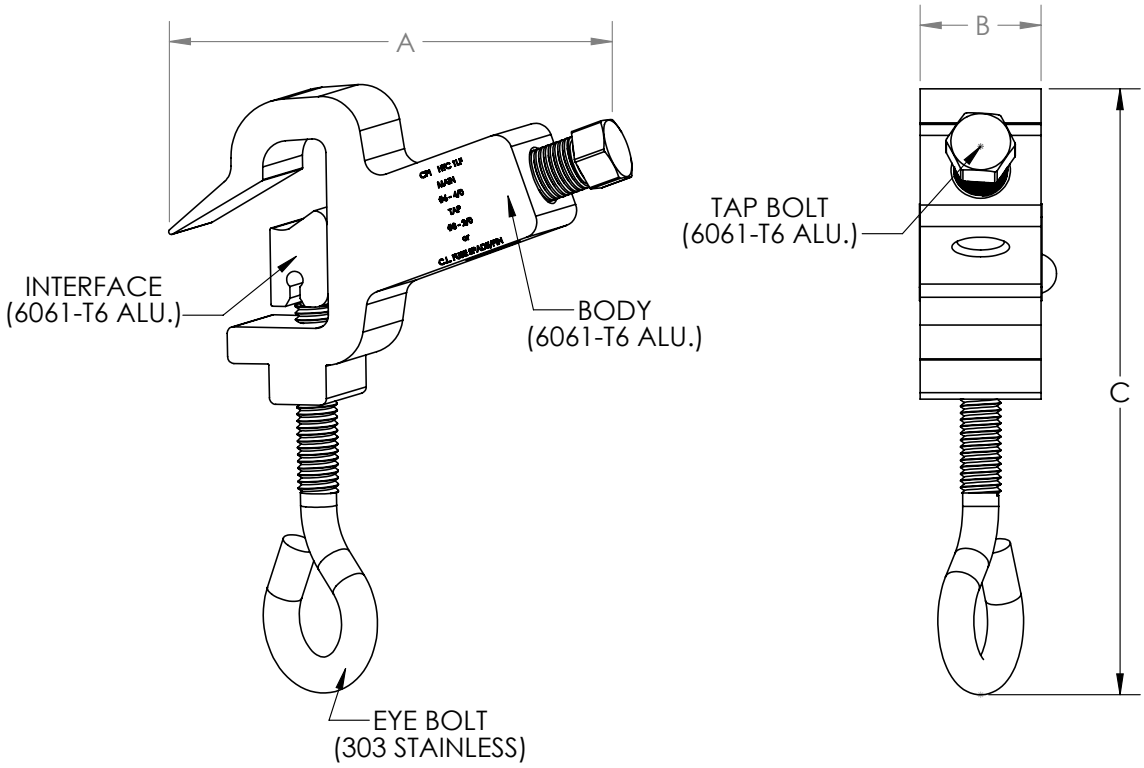
series is designed for connecting to Aluminum or Copper conductors. The tap side is designed to mount limiting fuses directly to the main conductor.

Through utilization of the wedge principal, the HTC LF series maximizes connecting force on the main conductor and creates a self-maintaining spring wedge connection.

The spring connecting force created by the connector ensure the ability of the connector to stay tight during service by overcoming the problems associated with heat cycling.

Features

- Accommodates either spade or pin terminals of current limiting fuses, as well as stranded tap conductors.
- Eliminates the need for increased pole heights while maintaining adequate clearances in the field.
- The angled tap position allows for enough clearance when using standard shot gun sticks
- Full current rated connector can be placed directly on the main line.
- Constructed of 6061-T6 structural aluminum alloy for high strength and conductivity.
- Exclusive high conductivity grit corrosion inhibitor is factory applied for ease of installation and longevity with the connector is in service.
- Remains permanently locked through fault currents or power surges.



Main Conductor		Tap Conductor		Catalog #
Description	Dia. Range	Description	Dia. Range	
#6 - 4/0	0.162" - .563"	#8 - 2/0 or C.L Fuse Spade/Pin	.146"-.414"	HTC 1LF
2/0 - 556 AAC	.398" - .858"			HTC 2LF
4/0 - 954 AAC	.522" - 1.125"			HTC 3LF

Dimensions			Catalog Number
A	B	C	
4.4"	1.125"	5.85"	HTC 1LF
5"	1.5"	8"	HTC 2LF
7"	1.75"	8.8"	HTC 3LF

CPI Connector Products Inc. "Better Products by Design"

HTC B Series Hotline Bail Connector

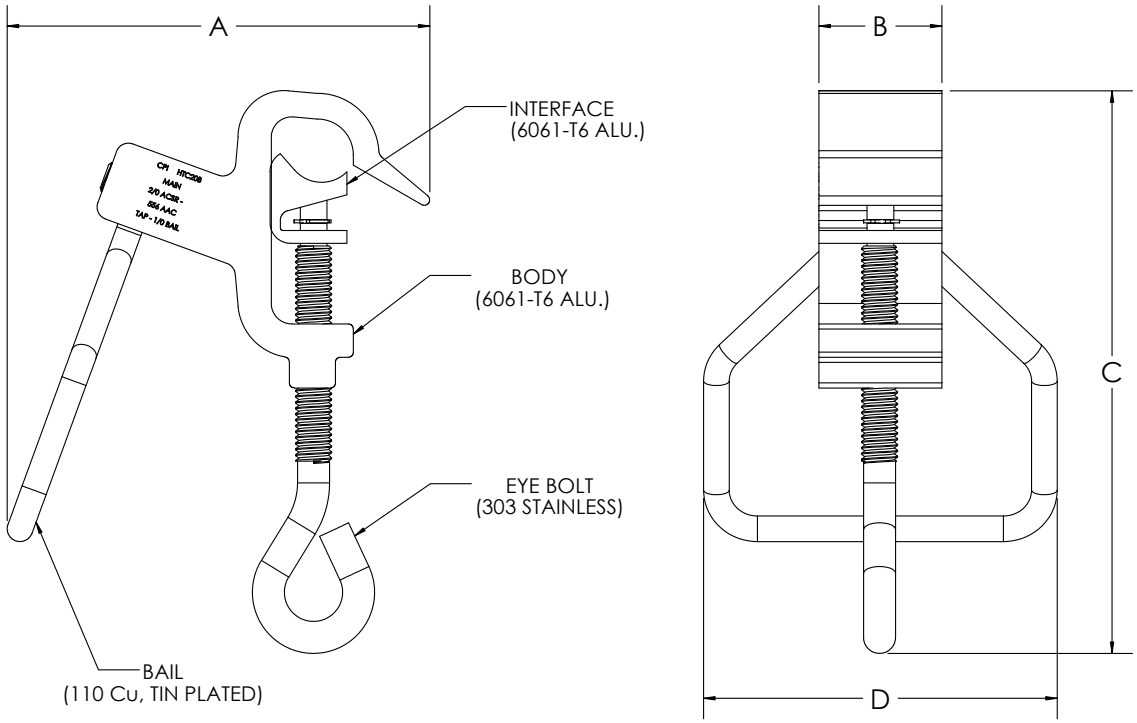
The CPI HTC B Series

is designed for connecting to Aluminum or Copper conductors. Stirrups are intended to protect the main line conductor from damage and arcing as Hot Line clamps are connected and disconnected.

Through utilization of the wedge principal, the HTC B series maximizes connecting force on the conductor and creates a self-maintaining spring wedge connection.

Features

- Constructed of 6061-T6 structural aluminum alloy to provide high strength and conductivity.
- Incorporates the use of a Stainless Steel eye bolt for increased strength and corrosion resistance.
- Copper bail is Tin Plated (not pictured) to prevent galvanic reaction between dissimilar metals.
- The bail is locked into the connector using threaded set screws. This prevents excessive deformation while maximizing surface contact area for maximum conductivity.
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- Horizontal wedge action prevents the conductor from "sticking" during the removal process.
- Easy to remove without damaging cable.



Main Conductor		Bail		
Description	**Dia. Range**	**Size**	**Ampacity**	**Catalog #**
#6 Cu - 4/0	.162" - .563"	#2	400	**HTC 10B**
		#1	465	**HTC 11B**
1/0 ACSR - 556.5 AAC	.398" - .858"	1/0	550	**HTC 20B**
336.4 - 954 AAC	.665" - 1.125"	1/0	550	**HTC 30B**
		2/0	640	**HTC 32B**

Dimensions				Catalog Number	Standard Package	
A	**B**	**C**	**D**		Qty	Lbs.
4"	1.125"	5.5"	3.75"	**HTC 10B**	40	30
				HTC 11B	40	30
5"	1.5"	6.5"	4.312"	**HTC 20B**	25	32
5.375"	1.75"	7.25"	4.312"	**HTC 30B**	20	38
				HTC 32B	20	38

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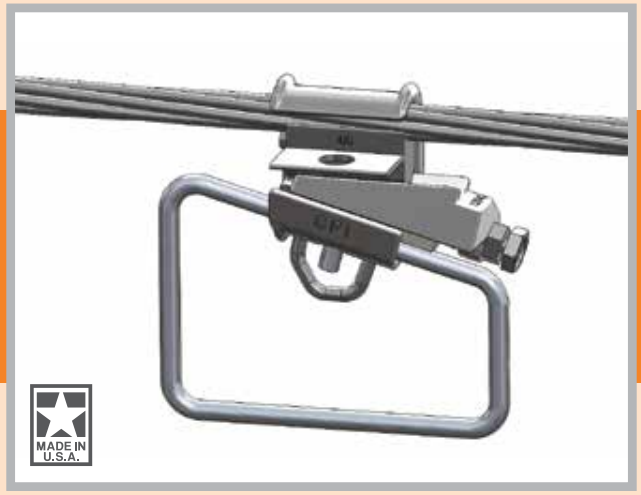
#4 thru 350 Series Stirrup



CPI Aluminum Stirrup Connectors

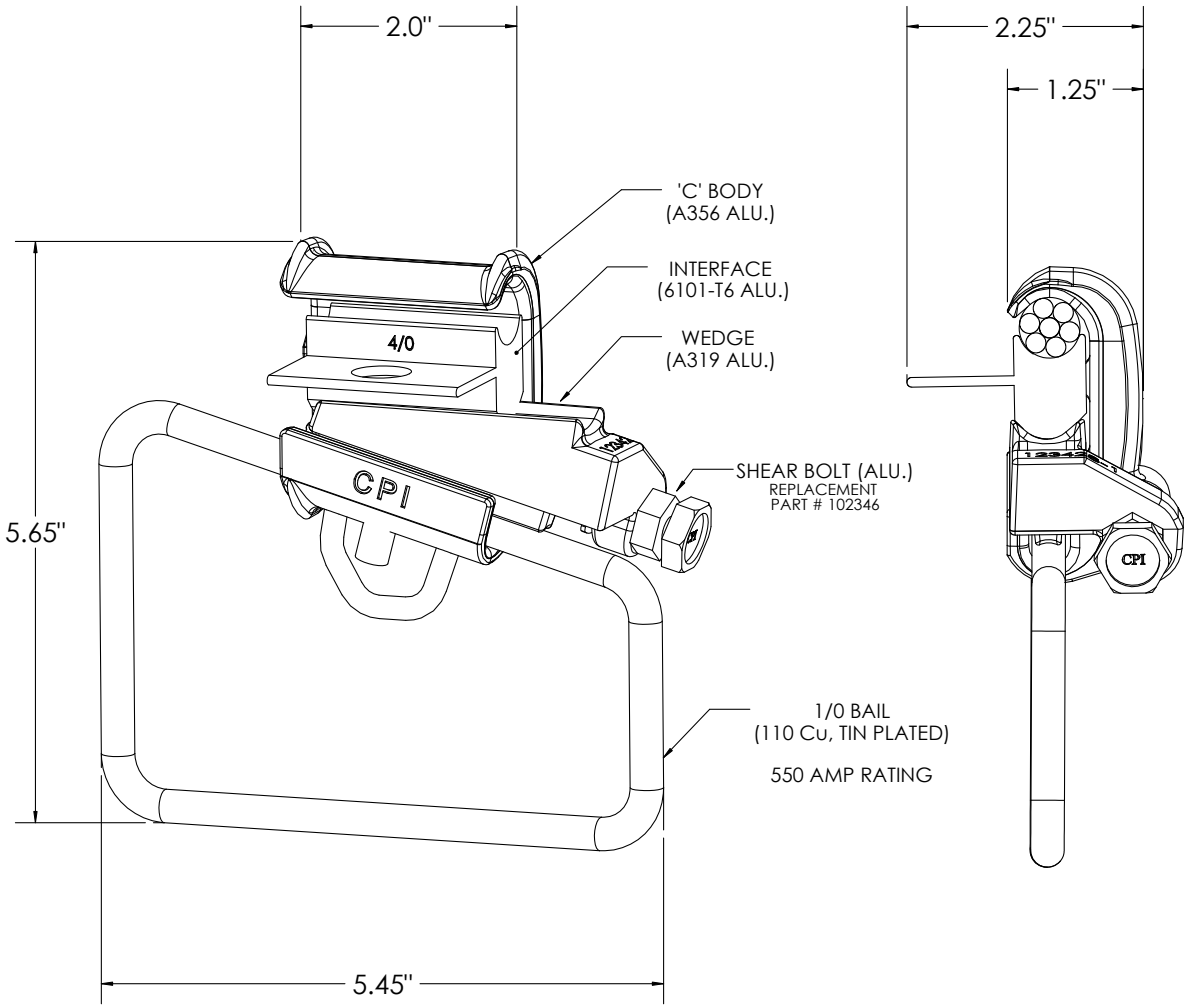
are designed for connecting to Aluminum or Copper conductors. Stirrups are intended to protect the main line conductor from damage and arcing as Hot Line clamps are connected and disconnected.

CPI Stirrup Connectors are extremely beneficial in applications that may need to be Disconnected.

During installation, when proper spring tension and torque is achieved, the Shear Head Bolt will break off giving the installer a positive indication of a correctly completed connection.

Features

- Easy to remove and re-use without damaging the conductor.
- The Heavy Duty Tin Plated bail has a large loop to allow for multiple connecting positions.
- The Tin Plated bail eliminates galvanic reaction.
- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have shoot-on or compression tooling.
- See corresponding page for product specifications and part numbers.



1/0 Copper Bails are rated for 550 Amps

Main Conductor		Bail Size	Catalog #
Description	Dia. Range		
#6, #4, #2 AAC	.162" - .292"	1/0	**102011**
#2, #1, 1/0	.292" - .398"	1/0	**102010**
2/0 , 3/0, 4/0 AAC	.414" - .522"	1/0	**102009**
3/0 ACSR, 250, 4/0	.502" - .574"	1/0	**264124**
266.8, 300, 336.4, 397.5 AAC	.586" - .724"	1/0	**336915-1**

STANDARD PACKAGE: 25 UNITS 11"X 11" X 7" BOX 25 Lbs. per BOX

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336.4 thru 1272 Series Stirrup

CPI Aluminum Stirrup Connectors

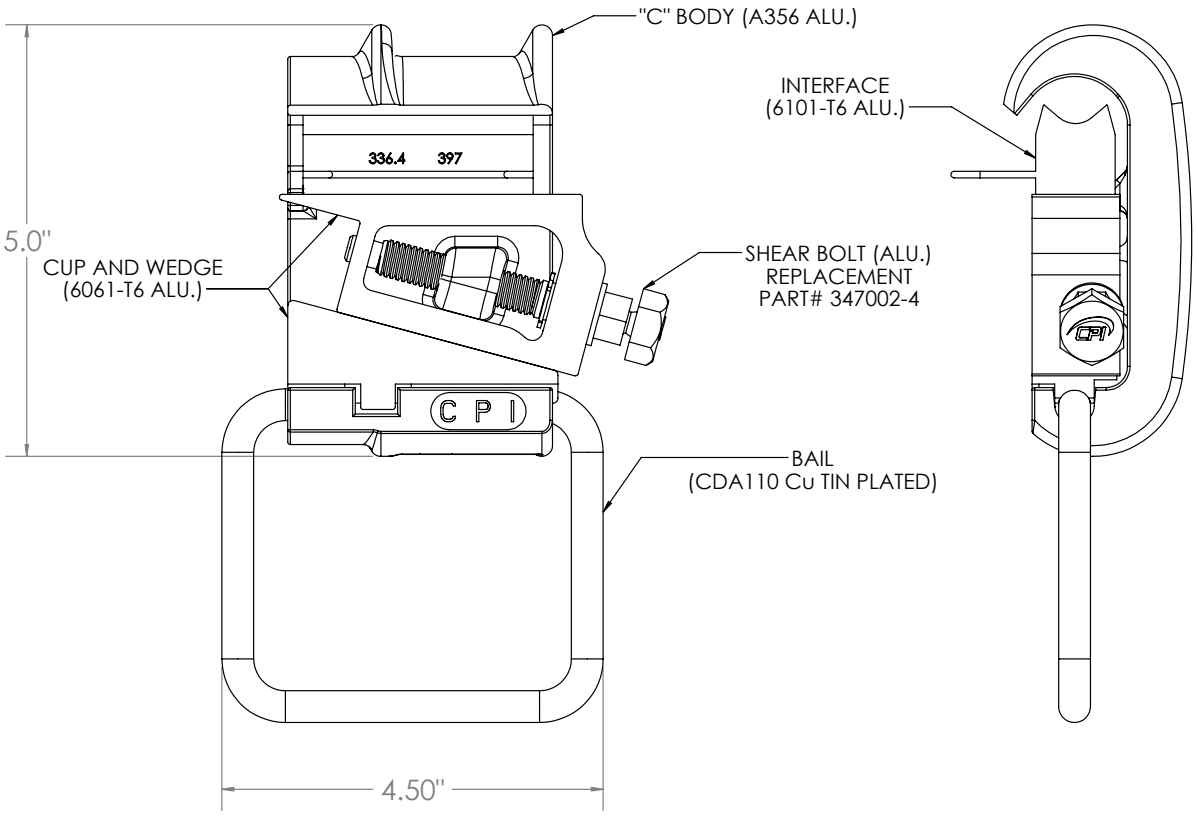
are designed for connecting to Aluminum or Copper conductors. Stirrups are intended to protect the main line conductor from damage and arcing as Hot Line clamps are connected and disconnected.

CPI Stirrup Connectors are extremely beneficial in applications that may need to be Disconnected.

During installation, when proper spring tension and torque is achieved, the Shear Head Bolt will break off giving the installer a positive indication of a correctly completed connection

Features

- Easy to remove and re-use without damaging the conductor.
- The Heavy Duty Tin Plated bail is adjustable to allow for multiple connecting configurations.
- The Tin Plated bail eliminates galvanic reaction.
- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have shoot-on or compression tooling.
- See corresponding page for product specifications and part numbers.

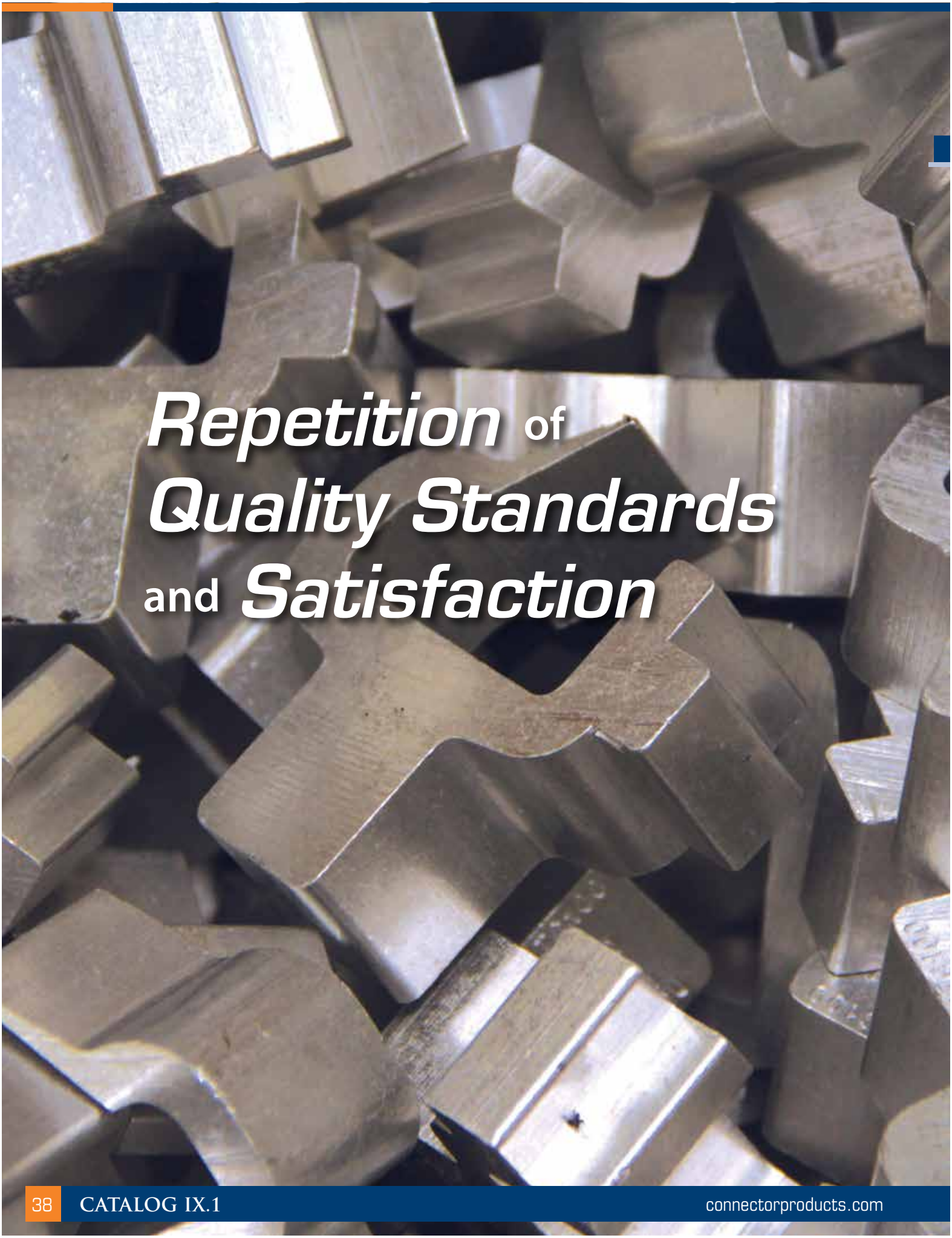


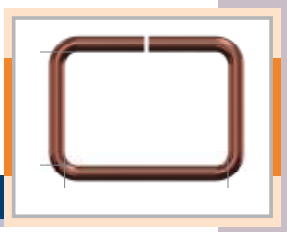
2/0 BAIL AMPACITY: 700 AMPS

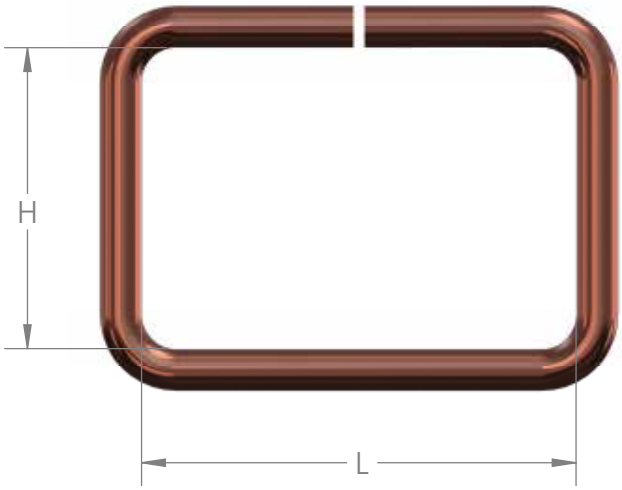
4/0 BAIL AMPACITY: 850 AMPS

Main Conductor		Bail Size	Catalog #
Description	Dia. Range		
226.8 ACSR 30/7, 336.4, 397.5 AAC, 397.5 ACSR 18/1	.642" - .743"	2/0	336875
		4/0	336780
450, 397.5 ACSR, 477, 500, 556.5 AAC, 556.5 ACSR 18/1	.769" - .883"	2/0	556580
		4/0	556595
477 ACSR 26/7 30/7, 556.5, 600, 636, 605, 715 AAC	.856" - .991"	2/0	636556
		4/0	636556-1
636 ACSR, 750, 666.6, 715, 795, 900	.990" - 1.108"	2/0	795500
		4/0	795405
715.5 ACSR, 795 ACSR, 900, 954, 1113 AAC, 1000	1.036" - 1.162"	2/0	103228
		4/0	103228-1
954, 1113, 900 ACSR, 1033.5, 1113, 1272 AAC	1.124" - 1.302"	2/0	119375
		4/0	119375-1

STANDARD PACKAGE: Full Carton: 20 Units: 11" x 11" x 11.5" Box: 44 Lbs. Half Carton: 10 Units: 11" x 11" x 7" Box: 22 Lbs.


Repetition of
Quality Standards
and Satisfaction



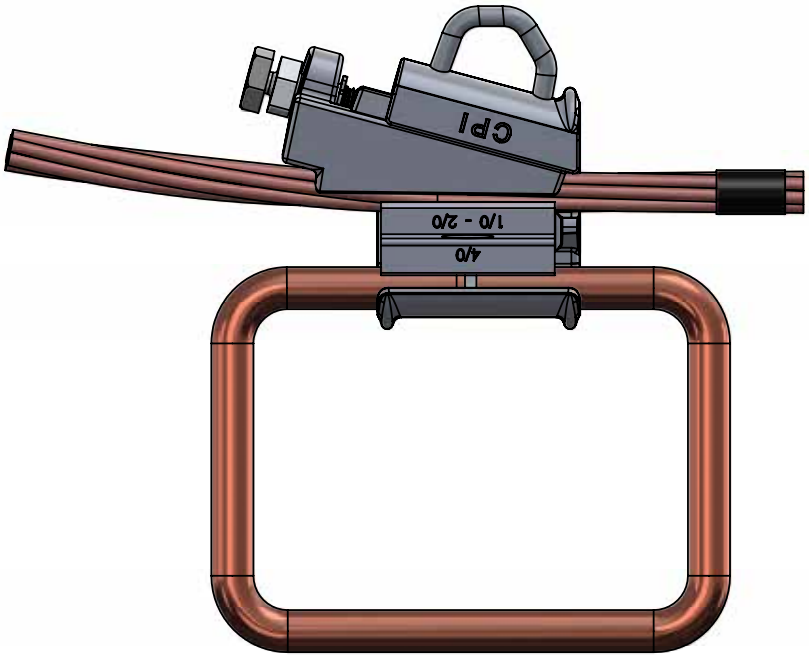


SIZE	MATERIAL	DIMENSIONS		CATALOG NUMBER
		L	H	
2/0 (.375")	CDA 110 COPPER	3.75"	3.25"	203695B
4/0 (.460")	CDA 110 COPPER	4"	3.25"	407933A

NOTE:

1. ALL BAILS COME TIN PLATED. FOR NO TIN PLATING, PLACE "NT" AFTER CATALOG NUMBER. E.G: 203695BNT

2. ADDITIONAL DIMENSIONS (L/H) CAN BE MADE AVAILABLE UPON REQUEST.



Connector Products Inc. "Better Products by Design"

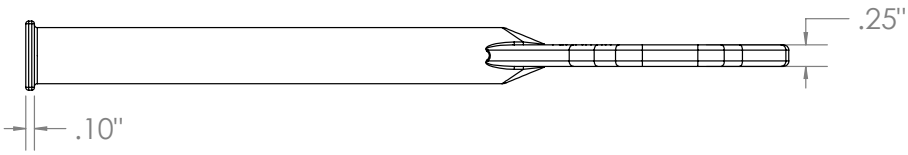
Cast Paddle Stirrups

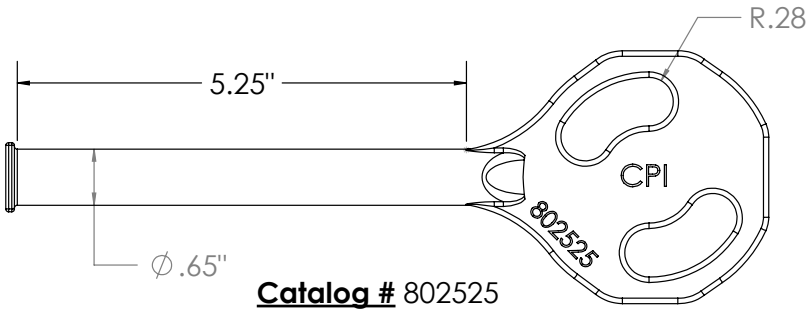
CPI Paddle Stirrups are designed to easily attach hot line clamps or grounding clamps onto various system components. Stirrups are used to protect the main conductor as hot line or grounding clamps are installed and removed. Typical applications are to connect hot line taps, lightning arrestors, re-closer connections and "pig tails"

Special Applications include installation on equipment such as cut-outs, riser pole disconnect switches and pad mounted switch gear for safe grounding and maintenance purposes.

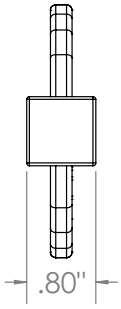
Features

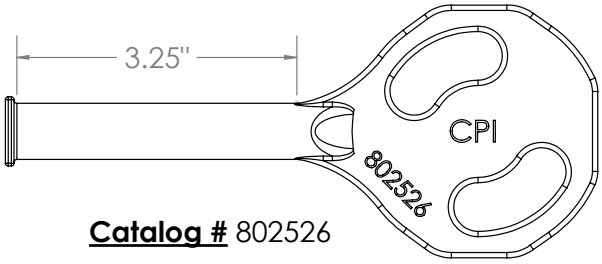
- CPI Paddle stirrups are available in longer lengths than traditional versions. This feature allows for multiple connection points on one unit.
- Multiple Lengths available from the factory.
- Slotted holes allow connection to terminals or spades with Standard NEMA Spacing.





Catalog # 802525



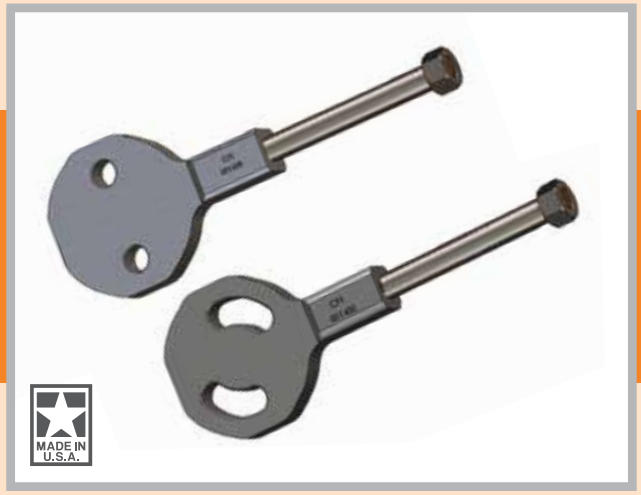


Catalog # 802526

ORDERING INFORMATION			
Catalog Number	Type	Handle Length	Configuration
802525	BRONZE	5.25”	Standard
802525T			Tin Plated
802526		3.25”	Standard
802526T			Tin Plated

Connector Products Inc. "Better Products by Design"

Paddle Stirrups



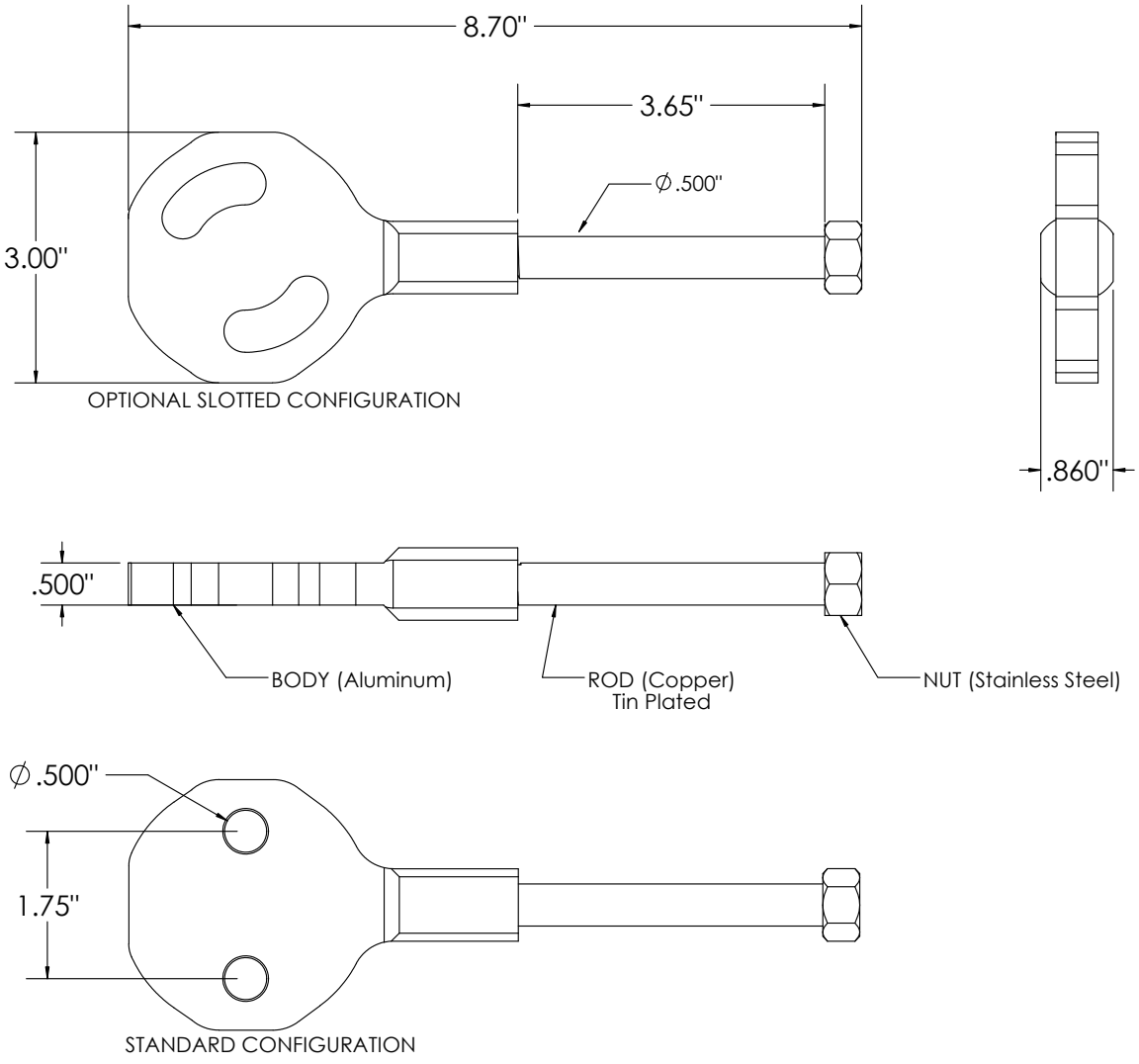
CPI Paddle Stirrups

are designed to easily attach hot line clamps or grounding clamps onto various system components. Stirrups are used to protect the main conductor as hot line or grounding clamps are installed and removed. Typical applications are to connect hot line taps, lightning arrestors, recloser connections and "pig tails"

Special Applications include installation on equipment such as cut-outs, riser pole disconnect switches and pad mounted switch gear for safe grounding and maintenance purposes.

Features

- Special Bi-Metallic construction allows connection between aluminum system components and bronze hot line clamps while preventing galvanic reaction.
- The stirrup is fault current rated at 10K amps for a 2 second duration. This is especially beneficial when equipment is disconnected for maintenance and the stirrup is connected to grounding clamps.
- Standard or slotted configuration holes allow connection to terminals or spades with Standard NEMA Spacing.
- Fully CNC machined from EC grade aluminum and pure 110% Copper for maximum conductivity.
- The Stainless Steel end-nut prevents connectors or clamps from slipping off during installation.
- The copper rod is Tin-Plated and coated with corrosion inhibitor before it is threaded and crimped into the aluminum body.
- See corresponding page for product specifications and part numbers.



ORDERING INFORMATION		
Catalog Number	**Type.**	**Configuration**
801450	Aluminum - Cu	STANDARD
801450S	Aluminum - Cu	SLOTTED

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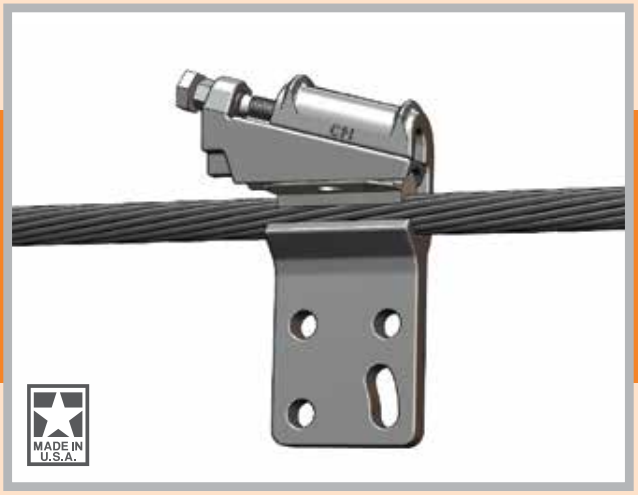
Pad Tap Connector



CPI Aluminum Pad Tap Connectors

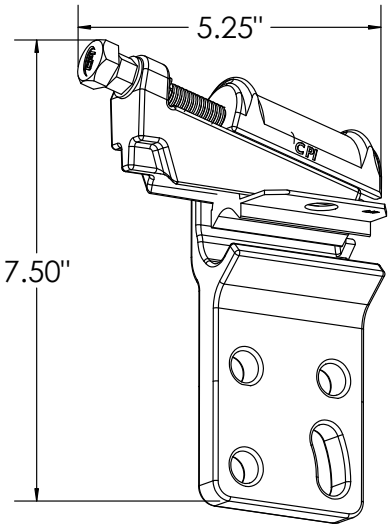
are designed to connect Aluminum or Copper conductor to a variety of 2-Hole or 4-Hole NEMA devices. Some examples are in mounting sectionalizing switches, connecting compression lugs for risers or various uses in Sub Stations.

Pad Tap Connectors are extremely beneficial in applications that may need to be Disconnected.

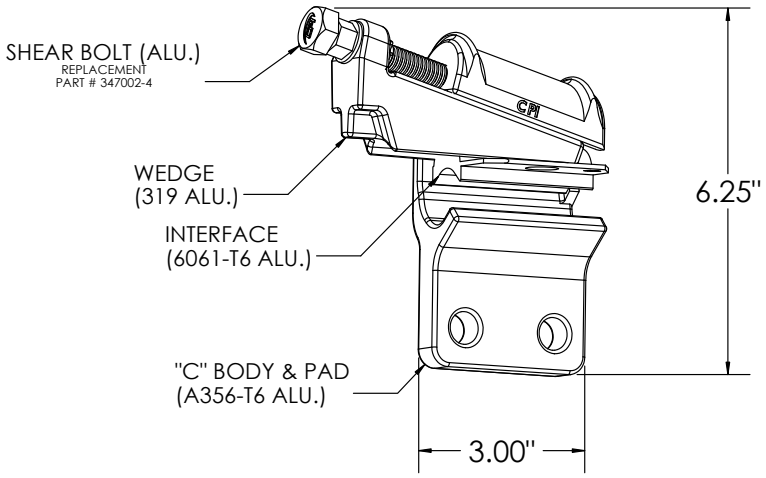
During installation, when proper spring tension and torque is achieved, the Shear Head Bolt will break off giving the installer a positive indication of a correctly completed connection.

Features

- Easy to remove and re-use without damaging the conductor.
- Available in NEMA standard 2-Hole or 4-Hole patterns.
- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Installation time is quicker than conventional crimp-type or molded joints.
- Easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Meets or exceeds the current carrying capacity of the conductors being connected.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have shoot-on or compression tooling.
- See corresponding page for product specifications and part numbers.

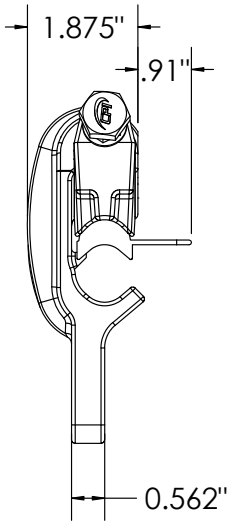


4 HOLE PAD



2 HOLE PAD

Main Conductor		Pad Size	Catalog #
Description	Dia. Range		
#2, 1/0, 2/0 AAC	.292" - .414"	4 Hole	**723210**
		2 Hole	**723210-1**
1/0, 2/0, 3/0, 4/0 AAC	.368" - .522"	4 Hole	**723003**
		2 Hole	**723003-1**
4/0, 250, 266.8, 300, 350, 336.4 AAC, 336.4 ACSR 18/1 & 26/7	.522" - .720"	4 Hole	**723004**
		2 Hole	**723004-1**
336.4 ACSR 30/7, 397.5, 450, 477, 500, 556.5 AAC, 556.5 ACSR 18/1 & 24/7 636 AAC	.720" - .918"	4 Hole	**723005**
		2 Hole	**723005-1**
556.5 ACSR 26 & 30/7, 605, 715, 750, 636, 666.6, 795, 900, 954 AAC	.918" - 1.125"	4 Hole	**723006**
		2 Hole	**723006-1**
954, 1000 MCM, 1033 AAC	1.125" - 1.196	4 Hole	**723007**
		2 Hole	**723007-1**
1033 ACSR, 1192 AAC, 1272 AAC	1.216" - 1.302"	4 Hole	**723008**
		2 Hole	**723008-1**
1590 AAC 61	1.454"	4 Hole	**723009**
		2 Hole	**723009-1**



Standard Package		
Qty	4 Hole	2 Hole
20	37 Lbs	34 Lbs
10	19 Lbs	16 Lbs

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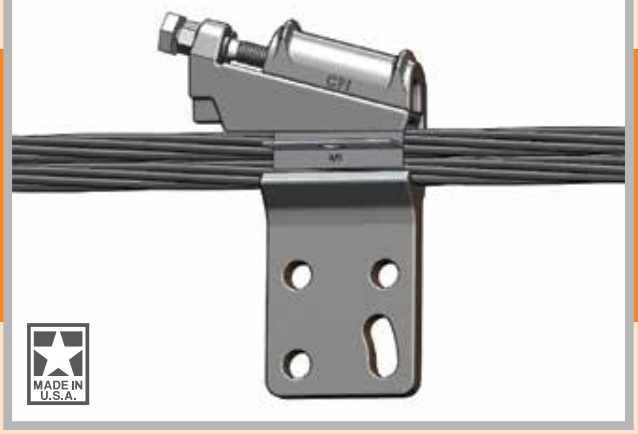
T2 Pad Tap Connector



CPI T2 Series Pad Tap Connectors

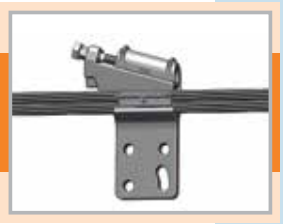
are designed to connect conductor to a variety of 2-Hole or 4-Hole NEMA standard devices. Some examples are in mounting sectionalizing switches, connecting compression lugs for risers or various uses in Sub Stations.

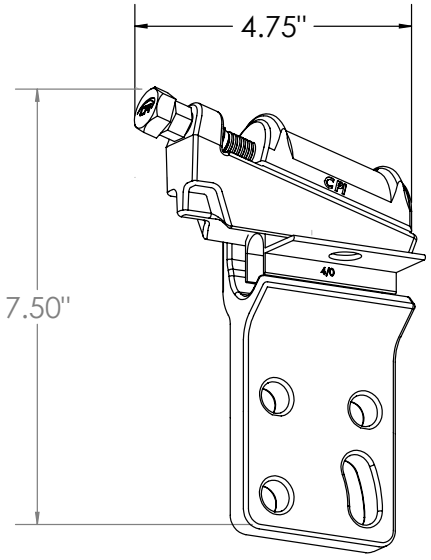
Pad Tap Connectors are extremely beneficial in applications that may need to be disconnected.

During installation, when proper spring tension and torque is achieved, the Shear Head Bolt will break off giving the installer a positive indication of a correctly completed connection.

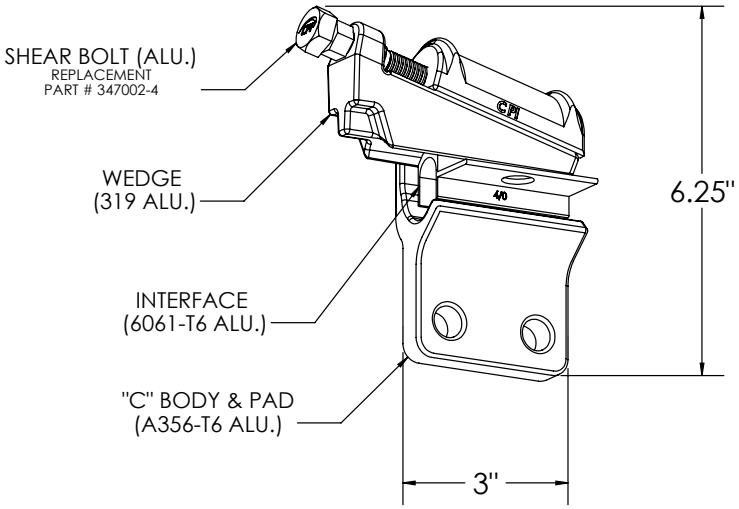
Features

- Connection is made with both pieces of conductor without having to separate them.
- Easy to remove and re-use without damaging the conductor.
- Available in NEMA standard 2-Hole or 4-Hole patterns.
- Utilizes the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench. NO SPECIAL TOOLS.
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors.
- Easily adaptable to standard hot-stick tools.
- Installation time is quicker than conventional crimp-type or molded joints easily adaptable to standard hot-stick tools.
- High-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Remains permanently locked through fault current or power surges.
- May be used in non-corrosive environments to connect copper conductors.
- Excellent option for emergency restoration where outside crews might not have shoot-on or compression tooling.
- See corresponding page for product specifications and part numbers.



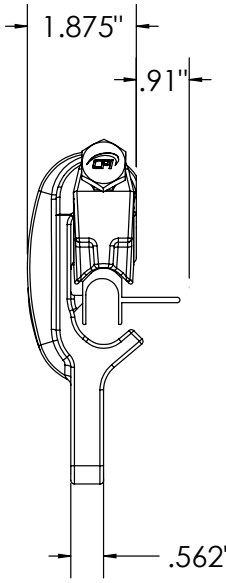


4 HOLE PAD



2 HOLE PAD

Main Conductor			Pad Size	Catalog #
Description	Min	Max		
#4 T2 AAC - #4 T2 ACSR	.232" x .464"	.250" x .500"	4 Hole	723210 T2
			2 Hole	723210-1 T2
#2 T2 AAC - #2 T2 ACSR	.292" x .584"	.316" x .631"	4 Hole	723211 T2
			2 Hole	723211-1 T2
1/0 T2 AAC - 1/0 T2 ACSR	.368" x .737"	.398" x .796"	4 Hole	723212 T2
			2 Hole	723212-1 T2
2/0 T2 AAC - 2/0 T2 ACSR	.414" x .827"	.447" x .894"	4 Hole	723213 T2
			2 Hole	723213-1 T2
3/0 T2 AAC - 3/0 T2 ACSR	.464" x .929"	.502" x 1.003"	4 Hole	723214 T2
			2 Hole	723214-1 T2
4/0 T2 AAC - 4/0 T2 ACSR	.522" x 1.043"	.563" x 1.127"	4 Hole	723215 T2
			2 Hole	723215-1 T2
266.8 T2 AAC	.414" X 0.928"		4 Hole	723216 T2
			2 Hole	723216-1 T2



T2 or Twisted Pair (TP)conductors are used for overhead distribution and transmission lines which are subject to wind-induced motion damage. TP conductor is composed of two identical bare conductors twisted together with a left-hand lay. This gives the cable a rectangular spiral shape. The spiral shape disrupts the forces created by steady cross winds which cause cable vibration, by presenting a continuously changing projected cable diameter to the wind. This spiral shape, together with less torsional stiffness and varying bending stiffness also reduces or eliminates cable galloping due to combined ice and wind loads.

Standard Package		
Qty	4 Hole	2 Hole
20	37 Lbs	34 Lbs
10	19 Lbs	16 Lbs

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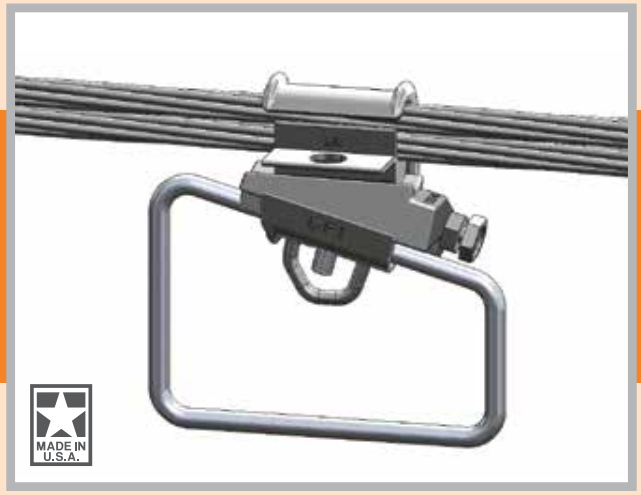
T2 Series Stirrup Connector



CPI T2 Series Stirrup Connectors

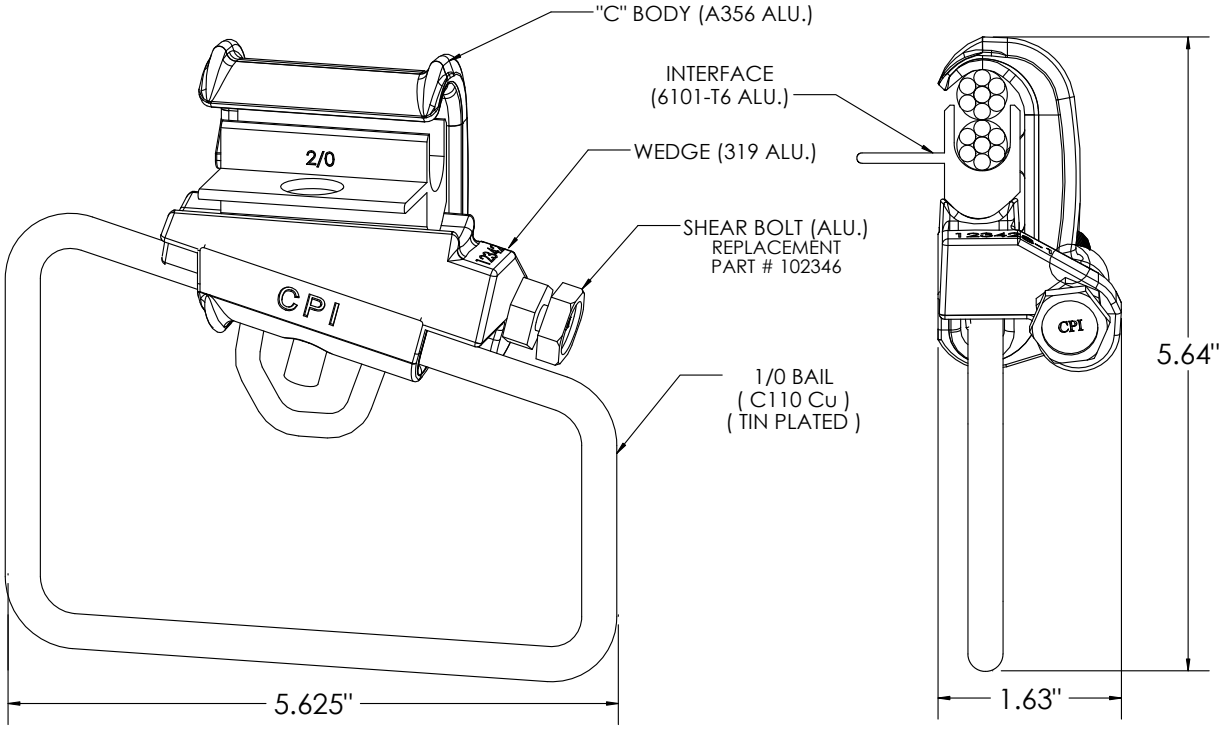
are designed for use as a permanent or temporary connection on T2 Aluminum wire.

Torque applied to the Shear Bolt drives the wedge into the connector and creates a deflection in the "C" body. This deflection creates a "spring pressure" mechanical connecting force on the conductors for optimal electrical conductivity.

When proper spring tension is achieved, the ShearHead Bolt will break off, giving the installer a positive indication of a correctly completed connection. This eliminates the need for any specialized tools, torque wrenches or compression dies.

Features

- Connection is made with both pieces of conductor without having to separate them.
- No special tools required for installation.
- Easy to install by glove or standard Hot Stick tooling.
- Quicker than standard crimp type connections.
- Easy to remove without damaging cable.
- Tin-Plated Bail helps prevent galvanic reaction.
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- An increased conductive path and surface contact area increases current ampacity rating.
- Constructed of A356 T6 and 6101-T6 aluminum alloy in combination to provide high strength and conductivity.
- Remains permanently locked through fault current or power surges.
- Tooling maintenance cost is reduced by eliminating specialized tools.



Main Conductor			Bail Size	Catalog #
Description	Min	Max		
#4 AAC - #4 ACSR	.232" x .464"	.250" x .500"	1/0	**102011 T2**
#2 AAC - #2 ACSR	.292" x .584"	.316" x .631"	1/0	**102012 T2**
1/0 AAC - 1/0 ACSR	.368" x .737"	.398" x .796"	1/0	**102010 T2**
2/0 AAC - 2/0 ACSR	.414" x .827"	.447" x .894"	1/0	**102009 T2**
3/0 AAC - 3/0 ACSR	.464" x .929"	.502" x 1.003"	1/0	**264123 T2**
4/0 AAC - 4/0 ACSR	.522" x 1.043"	.563" x 1.127"	1/0	**264124 T2**

T2 or Twisted Pair (TP) conductors are used for overhead distribution and transmission lines which are subject to wind-inducd motion damage. TP conductor is composed of two identical bare conductors twisted together with a left-hand lay. This gives the cable a rectangular spiral shape. The spiral shape disrupts the forces created by steady cross winds which cause cable vibration, by presenting a continuously changing projected cable diameter to the wind. This spiral shape, together with less torsional stiffness and varying bending stiffness also reduces or eliminates cable galloping due to combined ice and wind loads.

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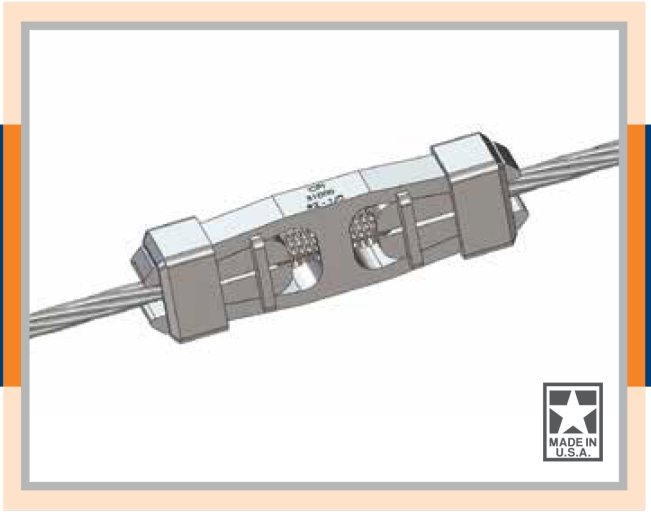
Automatic Splice



CPI Automatic Splice Connectors

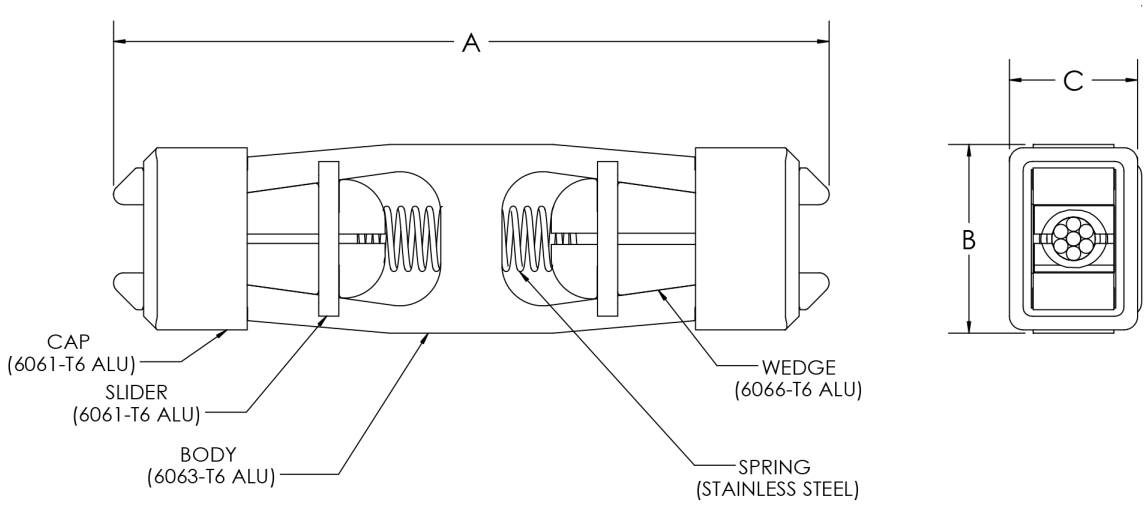
are designed as a permanent or temporary connection on AAC, ACSR or AAAC conductor in full or partial tension applications.

The unique open design helps overcome the two most common reasons for splice failure, improper installation and corrosion. The window allows the Lineman to see when the wire is fully inserted properly and prevents water and other contamination from building up inside of the connector.

The splice is constructed using the finest extruded aluminum alloys for optimal conductivity and corrosion resistance.

Features

- The only Automatic Splice where you can see that the wire is fully inserted and installed properly.
- There is no need to mark and measure the depth of cable insertion.
- The open design helps prevent corrosion by allowing water and contamination to drain.
- Stainless Steel Springs resist corrosion.
- Synthetic Inhibitor grease is factory applied to all conductive points to help prevent corrosion.
- Tested to ANSI C119.4 specifications for Class A connector.
- Minimum 5% tension needed to maintain electrical connection.
- Positive center stop for conductor.
- Minimal distance lost when sagging conductor.
- Chamfered wedges aid cable insertion.
- 4:1 surface area vs. cable for optimal conductivity.
- Slider handle allows the splice to be released if needed.
- Individually packaged in sealed plastic bags to prevent contamination before use.



Catalog #	Conductor Range		Dimensions		
	Description	Diameter	A	B	C
S500	**#6**AAC/ACSR/AAAC **#4**AAC/ACSR/AAAC	.184" - .257"	6.5"	1.75"	1.25"
S750	**#4**ACSR/AAC/AAAC **#2**AAC/ACSR/AAAC	.250" - .316"	6.5"	1.75"	1.25"
S1000	**#2**AAC/ACSR/AAAC **1/0**AAC/ACSR/AAAC **2/0**AAC	.292" - .414"	6.5"	1.75"	1.25"
S2000	**3/0**AAC/ACSR/AAAC **4/0**AAC/ACSR/AAAC **266.8**AAC	.464" - .586"	8.625"	2.437"	1.5"
S3000	**266.8**ACSR/AAAC **336.4**AAC/ACSR 18/1AAAC **397.5**AAC/ACSR 18/1	.609" - .743"	12.375"	3.0"	1.937"
S4000	**397.5** ACSR 18/1 **477** ACSR 26/7 **556.5** AAC	.743" - .858"	11"	3.0"	1.75"

Standard Package			
Part #	Quantity.	Dimension	Weight lbs.
S500, S750, S1000	50	11"x11"x7"	32
S2000	20	11"x11"x7"	32
S3000	15	14"x9"x9"	52
S4000	12	11"x11"x7"	38

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Overhead Terminal Block

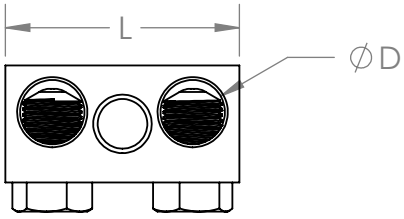
The **Overhead Terminal Block**

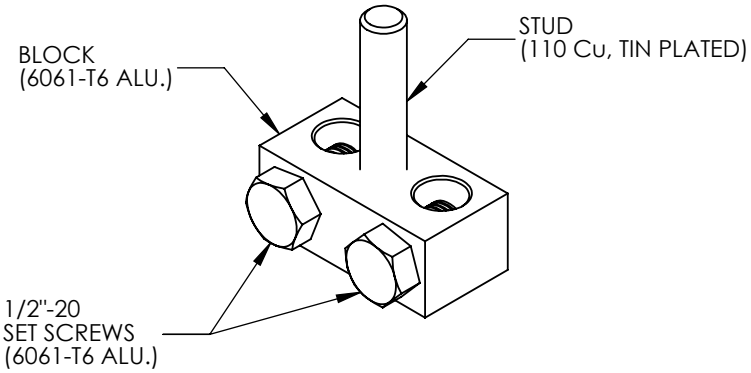
is used on scondary applications to a pole type transformer.

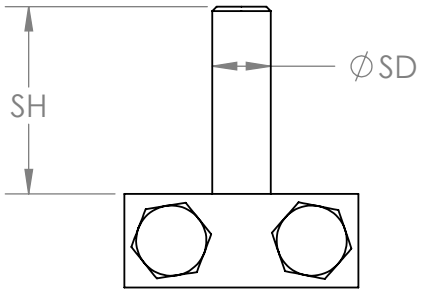
This connector is designed with clearance in mind, featuring a factory mounted tin plated stud in the middle of the connection range.

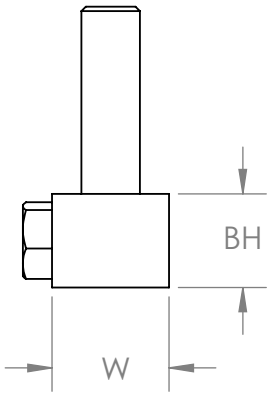
Features

- Constructed of 6061-T6 structural EC grade aluminum to provide strength and high conductivity.
- Tin plated CDA 110 copper stud is factory mounted within the assembly
- Range taking to reduce stock codes and inventory levels
- Can be used with aluminum or copper conductors.
- Multiple ranges available from the factory.
- Available with 1/2" or 5/8" copper studs direct from the factory.
- Factory applied corrosion inhibitor grease









Catalog #	L	W	BH	ØD	SH	ØSD
SB2-250M	2-1/2"	1-1/4"	1"	19/32"	2"	1/2"
SB2-300M	2-1/2"	1-1/4"	1"	41/64"	2"	1/2"
SB2-350M	2-1/2"	1-1/4"	1"	11/16"	2"	5/8"

Catalog # refers to intended wire size
(e.g. SB2-250M intended for 250MCM wire)

Consult factory for alternative sizes and hole/stud configurations

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Bolted Distribution Dead End

Bolted distribution dead ends

are used for distribution or transmission construction to terminate on ACSR, AAC, or AAAC conductors. Unlike traditional U-Bolt style units, the CPI dead end features independent bolts that can be fully tightened without having to alternate between bolts. This prevents the possibility of casting breakage due to offset U-bolt over tightening.

Optional torque control shear-head bolts prevent over tightening that is common with today's impact wrenches.

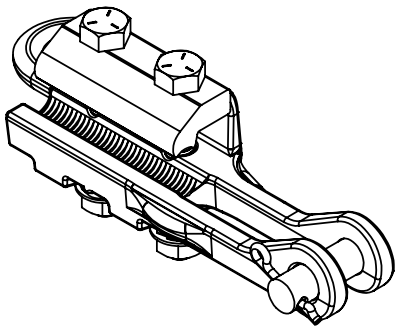
All castings are sourced from American foundries who use a mix of Titanium & Boron along with Strontium to refine and fortify the silicone based aluminum alloy. This fortification yields a quality of casting that is superior to other globally sourced units.

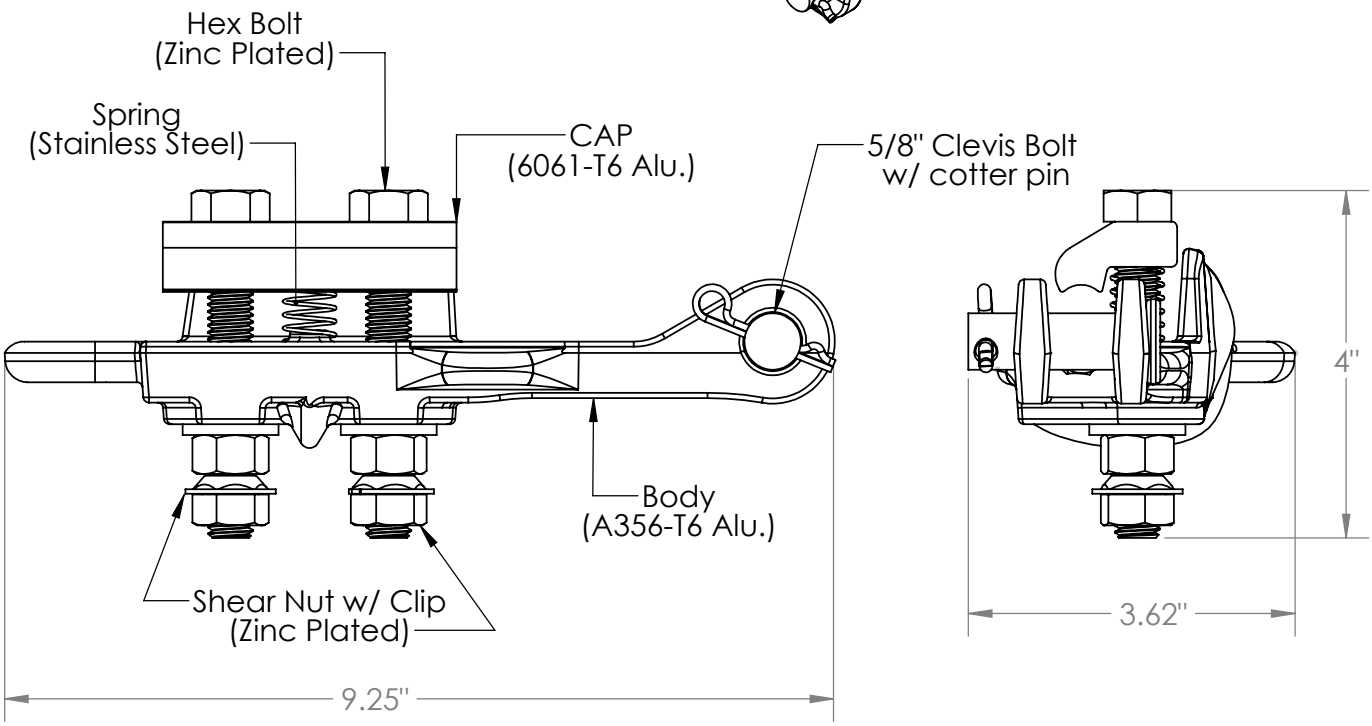
Features

- Body is made of A356 heat treated aluminum alloy.
- Two separate keepers are made of 6061 T6 aluminum.
- Captive stainless steel hardware provided.
- Pulling eye rated to 6,000 pounds included in assembly.
- Side loading for ease of installation.
- Spring loaded design maintains clearance of conductors during installation.
- Unique independent bolts prevents casting breakage by allowing full tightening without having to alternate. This time saving feature eliminates any lineman confusion.
- Available with optional torque control shear-head nuts.

Contact the factory for expanded sizes.

BOLTED DISTRIBUTION DEAD-END





SBDE 440 SHOWN ABOVE

CATALOG #	WIRE RANGE	
SBDE 410	#4 AAC - 1/0 AAC	.232" - .368"
SBDE 440	#4 AAC - 4/0 ACSR	.232" - .563"

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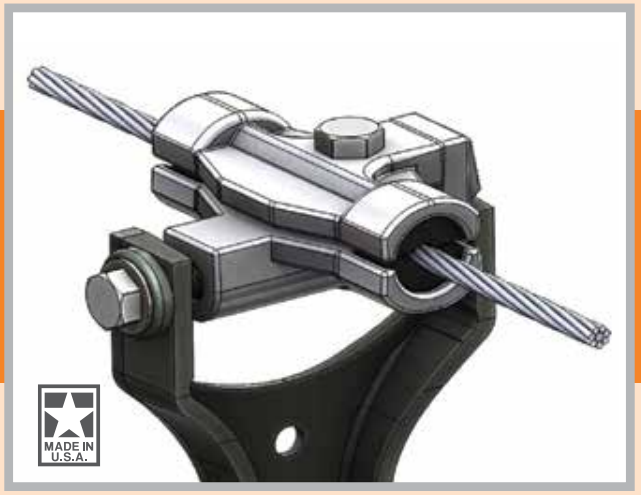
Aluminum Trunnion Clamp



Aluminum Trunnion Clamps

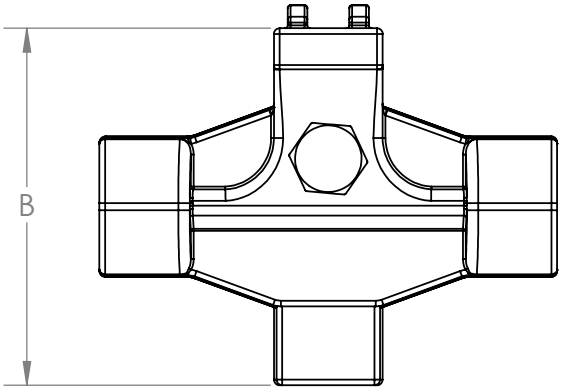
developed by CONNECTOR PRODUCTS INC are used for tangent suspension spans with either vertical or horizontal post insulators.

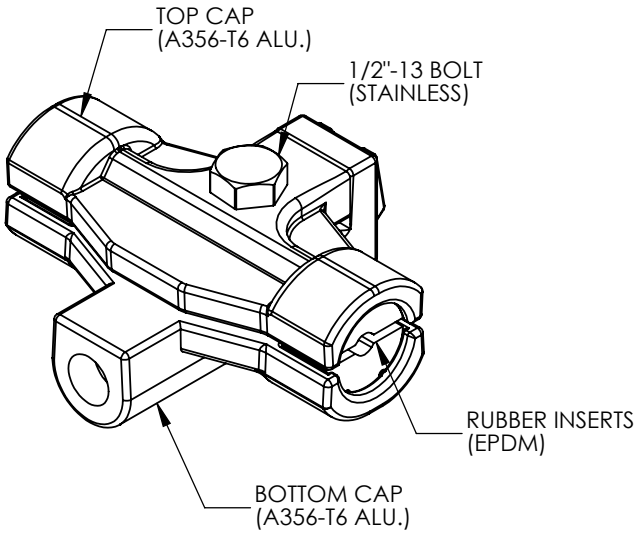
The unique single bolt desing keeps the assembly captive during installation, while a factory installed spring allows the clamp to remain open for positioning of the conductor.

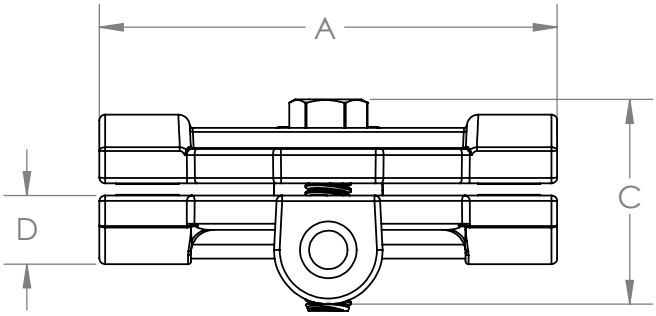
This clamp also features factory installed rubber at the entrance and is designed for use with or without armor rods.

Features

- Can be used on ACSR, AAC, or AAAC as well as ACSS
- Body made of high strength aluminum alloy.
- Captive galavanized steel or stainless steel hardware available from the factory.
- Factory assembled with built in cushion to mitigate Aeolian vibration on the conductor
- Side loading for ease of installation.
- Conforms to ANSI standards to all post top insulator cap specifications.
- Line angles of up to 20 degrees
- Range taking







Conductor Range		Catalog Number
Description	Dia. Range	
#4 - 4/0 ACSR	.250" - .563"	TC100
4/0 ACSR - 477 30/7 ACSR	.563" - .883"	TC200
477 ACSR 30/7 - 750 AAC	.883" - .997"	TC300

Dimensions				Catalog Number
A	B	C	D	
5"	3.9"	2.2"	.75"	TC100
5.6"	3.9"	2.7"	1"	TC200
6"	3.9"	3"	1.25"	TC300

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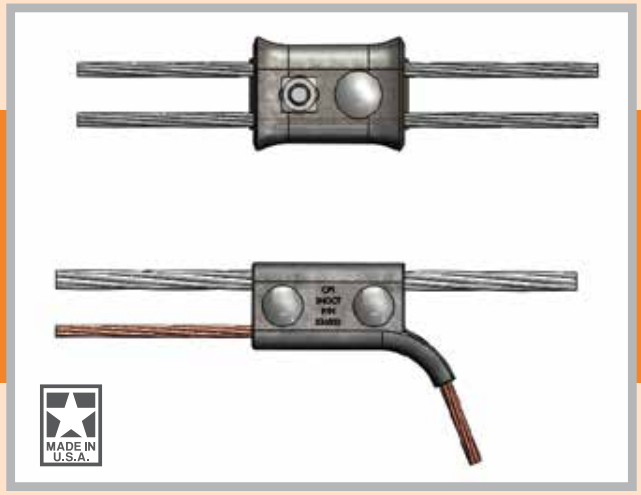
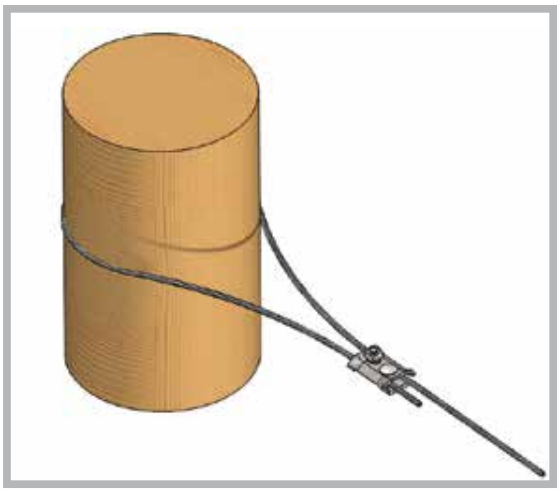
Conductor Clamps and Snoot Clamps



Conductor Clamps

are used to secure conductor loop dead ends at the pole or to connect shield wire to a ground wire riser.



- Made from stamped 3/16" steel
- Hot dip galvanized to meet ASTM standard A153 class C.
- Accommodates conductor diameter ranges of 0.146" – 0.414"
- The rounded edges prevent damage to the conductor
- All clamps are shipped complete with ½" bolts, nuts and lock washers

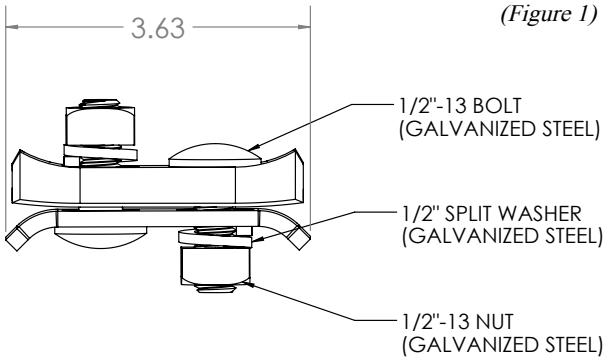
Snoot Clamps

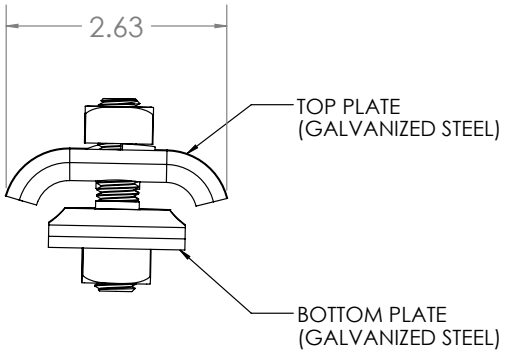
are used primarily for connecting shield wire to a ground wire riser.

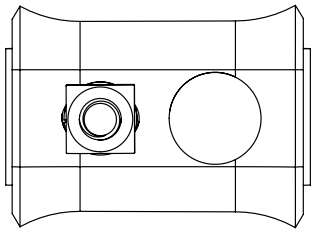
- Made from cast iron
- Hot dip galvanized to meet ASTM standard A153 class C.
- Accommodates conductor diameters ranges of 0.390" – 0.464" in the top groove and 0.250" – 0.325" in the bottom groove.
- The directional groove prevents damage to the conductor.
- All clamps are shipped complete with galvanized steel ½" bolts, nuts and lock washers.

CONDUCTOR CLAMP

(Figure 1)



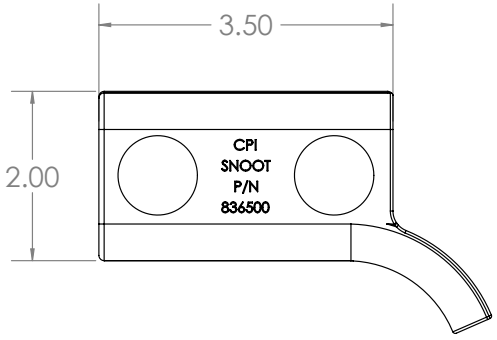


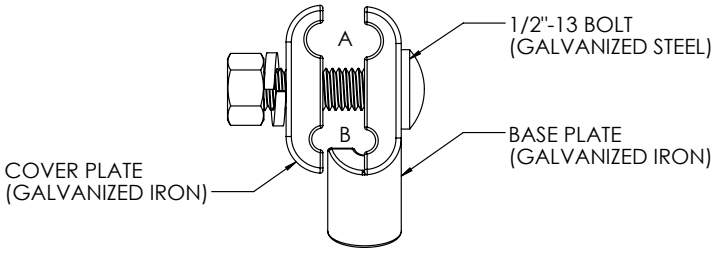


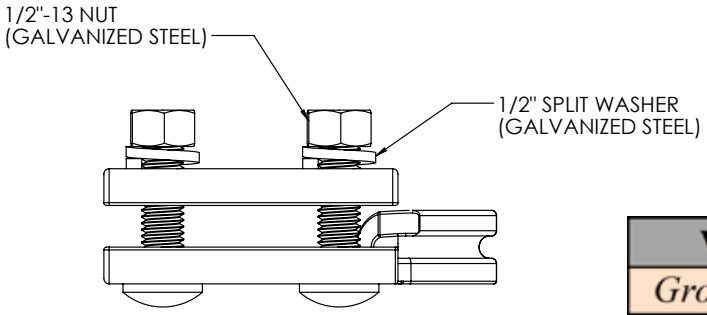
Wire Range		Catalog #
Description	Dia. Range	
#8, #6, #4, #2, #1, 1/0, 2/0 AAC	.146" - .414"	837246

SNOOT CLAMP

(Figure 2)







Wire Dia. Range		Catalog #
Groove A	*Groove B*	
.390" - .464"	.250" - .325"	836500

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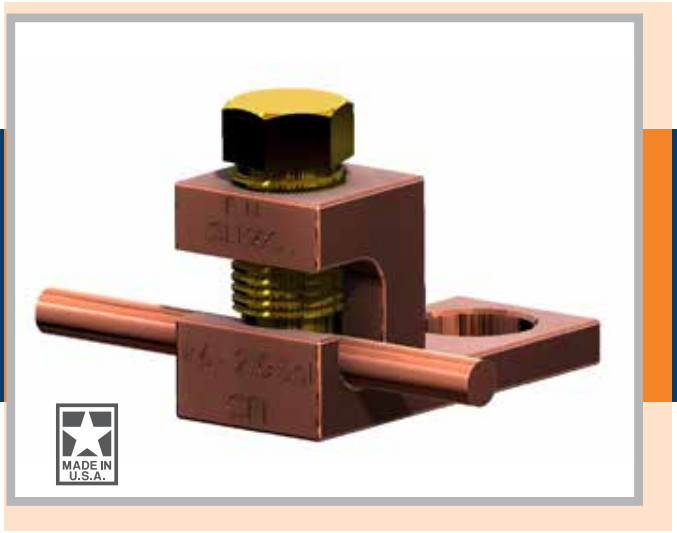
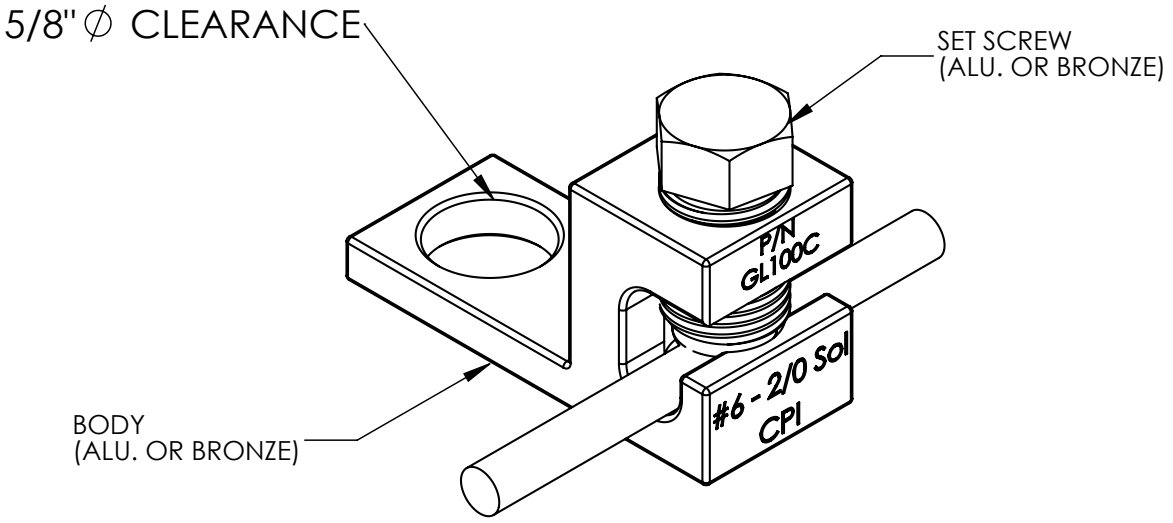
Grounding Terminal Lug

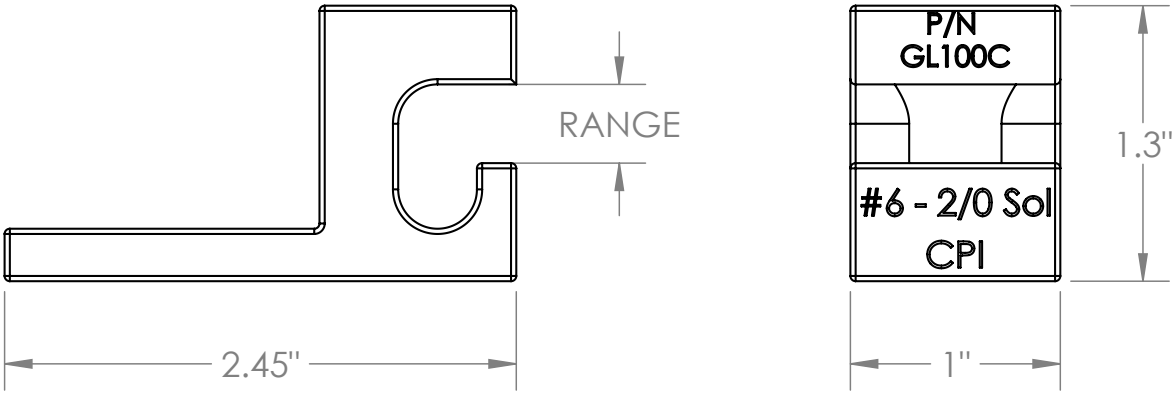


The CPI Grounding Terminal Lug is designed for installation on utility poles for the purpose of grounding the system down the pole. The grounding lug features a pass through for the grounding conductor that allows the installer to pass the conductor through the connection without having to cut or bend the conductor.

Features

- Features Features the industry-proven spring wedge principal and is easy to install with a common socket or impact wrench.
- Available in Aluminum, Copper or Tin Plated Copper
- Standard 5/8" mounting hole that is set away from the conductor
- Larger range then most for less stock codes
- More robust design than competition
- Fully tested with fault current



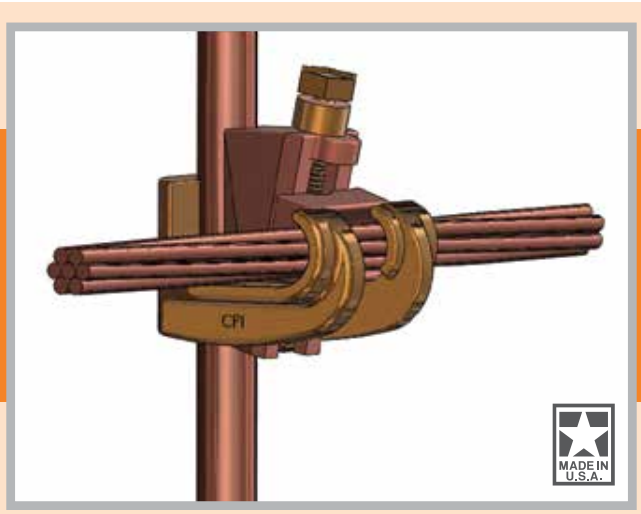


Catalog #	Range		Description
GL 100	#6 - 2/0 SOL	.162” - .375”	ALUMINUM
GL 100T	#6 - 2/0 SOL	.162” - .375”	ALUMINUM (TIN PLATED)
GL 100C	#6 - 2/0 SOL	.162” - .375”	COPPER
GL 100CT	#6 - 2/0 SOL	.162” - .375”	COPPER (TIN PLATD)

Please consult factory for wire sizes not listed here

CPI Connector Products Inc. "Better Products by Design"

4/0 Series Ground Grid Connector



CPI Ground Grid Connectors

are a Safe, Fast and Dependable Method of making permanent wire-to-wire and wire-to-rod connections for a variety of grounding applications.

This product uses a special Shear-Head bolt to drive a wedge into the connector to activate the connector. When the proper torque and spring tension is achieved, the bolt head shears off, giving the installer a positive indication of an optimum connection.

Features

- Requires NO Special Molds, Chemicals, Tools, Crimping Dies, or Fire-On Charges.
- Can be fully installed with a common socket, impact or ratchet wrench.
- There are no temperature or weather restrictions for installation. This product can be installed no matter what environment exists at the job site.
- The Shear-Head bolt ensures consistency of application and positive verification of a completed connection.
- Constructed using the highest quality Copper and Bronze Alloys to ensure conductivity and durability for reliable performance.
- Fully tested to IEEE standard 837
  - Mechanical Pullout
  - Electromagnetic Force
  - Current-Temperature Cycling
  - Freeze-Thaw
  - Corrosion-Nitric Acid
  - Fault Current, 35 kA rms. sym. at .02 sec.
  - Thermal Shock and Accelerated Corrosion
- Typical Applications include:
  - Substation Ground Grids,
  - Pole grounds transmission line grounding
  - Industrial/Residential service grounds,
  - Pad Mount Transformers,
  - Telco distribution, CATV grounds
  - Wind Farms
- See corresponding page for product specifications and part numbers.

1) Withdraw drive screw to end point of wedge as shown.

2) Place "C" Body around conductor

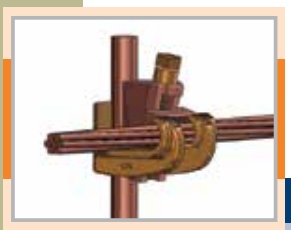
3) Place conductor designated by markings on cable nest within "C" body.

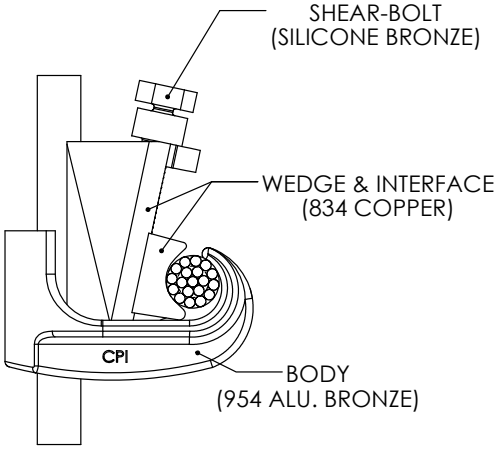
4) Insert wedge assembly while holding conductors in place.

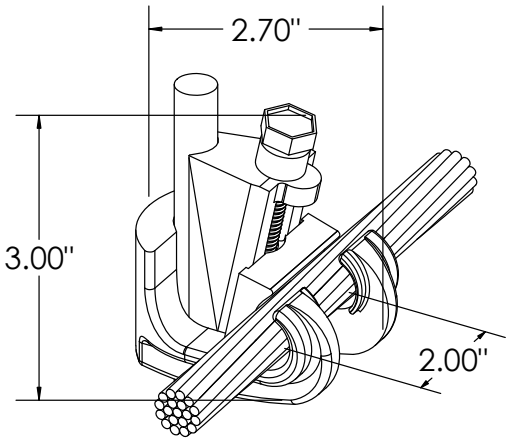
5) Push the wedge forward to lock the conductors in place.

6) Use a 9/16" socket to drive the screw in.

7) When shear head breaks off installation is complete. Any socket, speed, or impact wrench can be used.

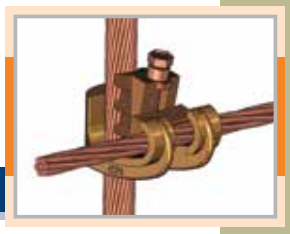


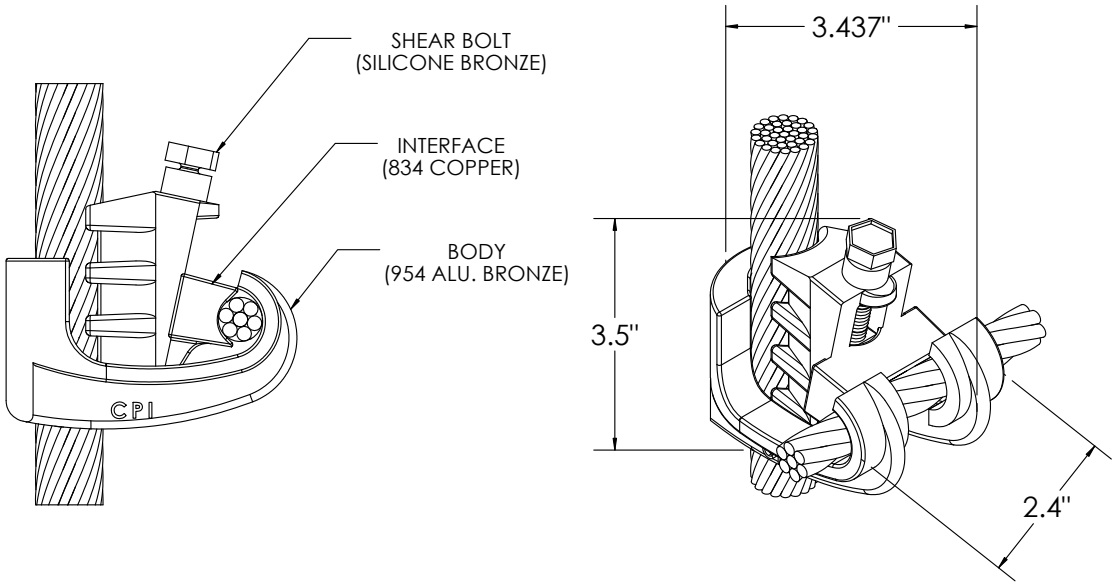




Conductor Range		Catalog #
From	To	
350 MCM (.681") - 3/4" ROD (.680") 300 MCM (.630")	250 MCM (.575") - 5/8" ROD (.556") 4/0 STR (.522")	**900100**
250 MCM (.575")	250 MCM (.575")	
250 MCM (.575") - 4/0 STR (.522")	250 MCM (.575") - 5/8" ROD (.556") 4/0 STR (.522")	**900101**
250 MCM (.575")	1/2" ROD (.472")	
250 MCM (.575") - 5/8" ROD (.556") 4/0 STR (.522")	2/0 MCM (.419") - 1/0 STR (.368")	**900102**
1/2" ROD (.472")	1/0 STR (.368")	
2/0 STR (.419") - 1/0 STR (.368")	2/0 STR (.419") - 1/0 STR (.368")	**900103**
5/8" ROD (.556") - 1/2" ROD (.472") 4/0 STR (.522")	#2 STR (.292")	
250 MCM (.575") - 4/0 STR (.522") #1 STR (.328")	#4 STR (.232") - #6 STR (.184") #1 STR (.328")	**900104**
#4 STR (.232") - #2 STR (.282")	#4 STR (.232") - #2 STR (.282")	**900105**

STANDARD PACKAGE: Full Carton: 40 Units: 11" x 11" x 7" Box: 49 Lbs.



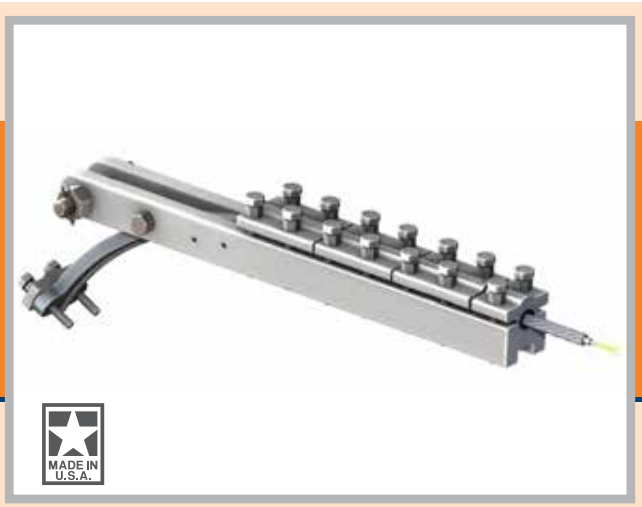


Conductor Range		Catalog #
From	To	
500 MCM (.813") 450 MCM (.769")	500 MCM (.813") 450 MCM (.769")	900200
500 MCM (.813")	400 MCM (.726")	
500 MCM (.813") 450 MCM (.769")	350 MCM (.679") 300 MCM (.629") 3/4 ROD (.680")	900201
450 MCM (.769") 400 MCM (.726")	400 MCM (.726")	
500 MCM (.813") 450 MCM (.769")	250 MCM (.574") 5/8" ROD (.556") 4/0 STR(.522")	900202
350 MCM (.679")	350 MCM (.679") 300 MCM (.629") 3/4 ROD (.680")	
400 MCM (.726")	250 MCM (.574") 5/8" ROD (.556")	
500 MCM (.813") 450 MCM (.769")	1/0 STR (.368") 2/0 STR (.419")	900203

STANDARD PACKAGE: Full Carton: 24 Units: 11" x 11" x 11.5" Box: 48 Lbs.

Connector Products Inc. "Better Products by Design"

OPGW Bolted Dead End



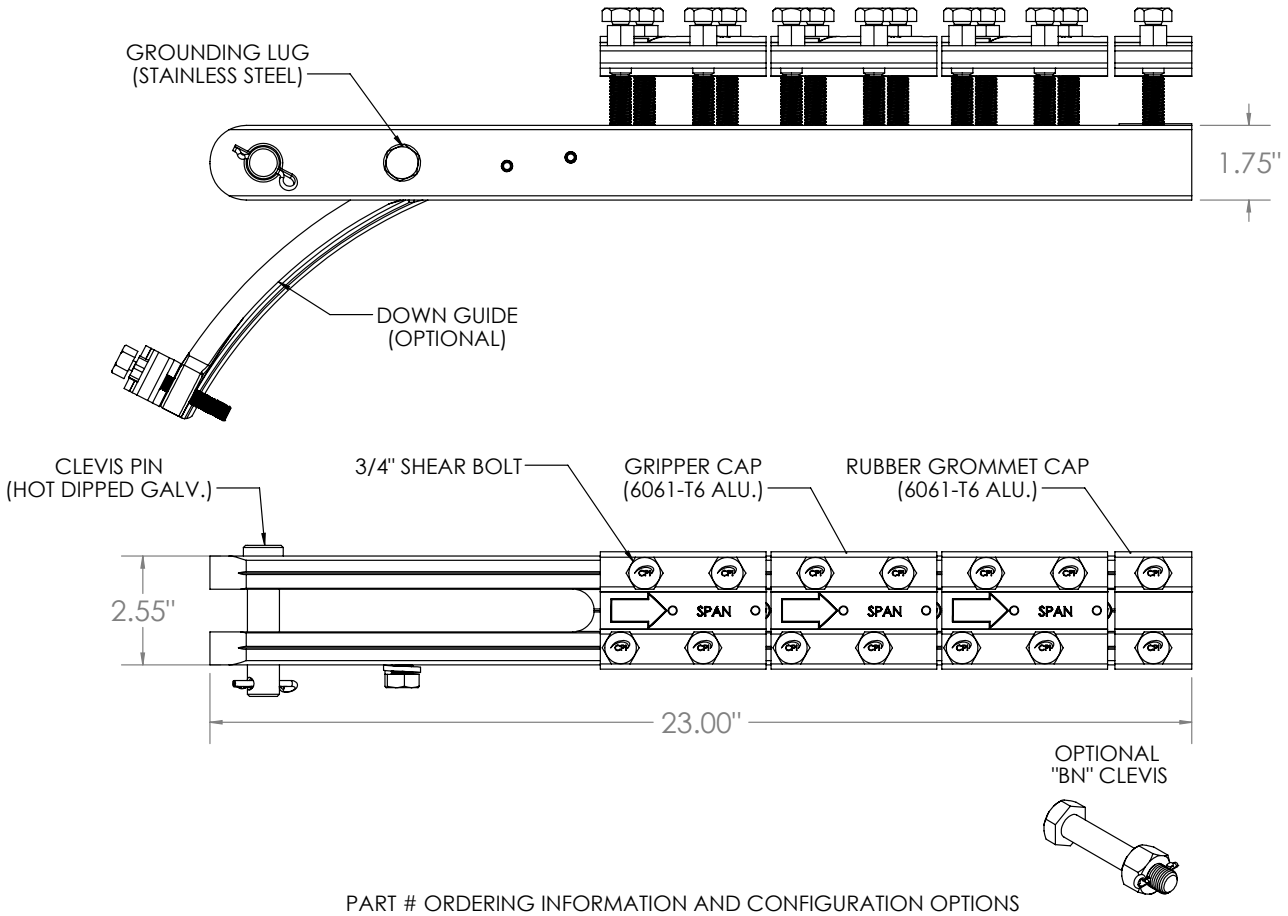
CPI OPGW Bolted Dead

is designed as a full tension termination of Optical Grounding Wire Spans (OPGW). The Patented Left and Right Hand gripper design allows the Dead End to hold 95% of the cable's RBS. Break-Away Shear Head bolts are used to ensure that proper gripping force is applied to the cable without attenuating the fibers and optical performance.

Please provide cable specification sheet when ordering.

Features

- Rubber grommets suppress Aeolian vibration fatigue at the cable exit point.
- Compact length allows for complete installation from the structure.
- Shear-Head bolts ensure proper torquing necessary to achieve maximum holding strength without damaging the fibers.
- Optional Cable Down Guide helps to train the cable down or around the structure without exceeding the minimum bend radius of the cable.
- Shorter and easier to install that formed wire dead ends allowing installation directly from the tower.
- Standard drilled and tapped grounding lug attachment point eliminates the need for additional bonding accessories.
- Unique cable gripper insert system greatly reduces manufacturing lead times. Most sizes are typically available In-Stock directly from the factory.
- Design Criteria:
  - Sustained load, 95% of cable RBS.
  - Ultimate Mechanical Strength 35,000 Lbs.
  - Cable Dia. range .350"-.750"
- Dead Ends for larger cable are available upon request.



PART # ORDERING INFORMATION AND CONFIGURATION OPTIONS

OBDE	E G	14.3-14.8	BN
Optical Bolted Dead-End	Enter "**E**" if the cable RBS is **under** 20k Enter "**C**" if the cable RBS iS **over** 20k Enter "**G**" to **include** Downguide Enter "**N**" to **exclude** Downguide	Cable dia. in milimeters see chart below	Add "BN" suffix to Part # in order to select the bolt nut clevis option

NOTE:
Units configured to the "E" option where RBS is less than 20k lbs.

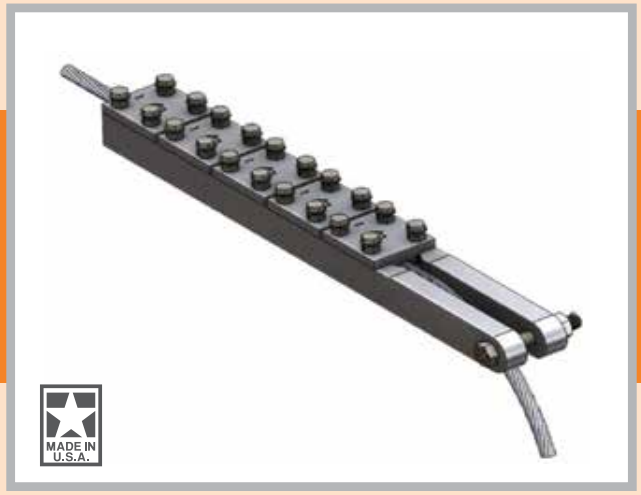
Units configured to the "C" option where RBS is greater than 20k lbs.

Catalog #	Dia. Range (Milimeters)		Dia. Range (Inches)	
	Min	Max	Min	Max
OBDE (E/C)(G/N) 8.98-9.75	8.98	9.75	0.354	0.384
OBDE (E/C)(G/N) 9.75-10.7	9.75	10.7	0.384	0.422
OBDE (E/C)(G/N) 10.7-11.5	10.7	11.5	0.422	0.453
OBDE (E/C)(G/N) 11.5-12.7	11.5	12.7	0.453	0.500
OBDE (E/C)(G/N) 12.7-13.7	12.7	13.7	0.500	0.540
OBDE (E/C)(G/N) 13.7-14.3	13.7	14.3	0.540	0.563
OBDE (E/C)(G/N) 14.3-14.8	14.3	14.8	0.563	0.583
OBDE (E/C)(G/N) 14.8-15.5	14.8	15.5	0.583	0.611
OBDE (E/C)(G/N) 15.5-16.2	15.5	16.2	0.611	0.638
OBDE (E/C)(G/N) 16.2-17.0	16.2	17.0	0.638	0.670
OBDE (E/C)(G/N) 17.0-17.9	17.0	17.9	0.670	0.705
OBDE (E/C)(G/N) 17.9-19.0	17.9	19.0	0.705	0.750

NOTE:
Part Number information is displayed on each unit using the same color code shown on this chart

CPI Connector Products Inc. "Better Products by Design"

XL OPGW Bolted Dead-Ends



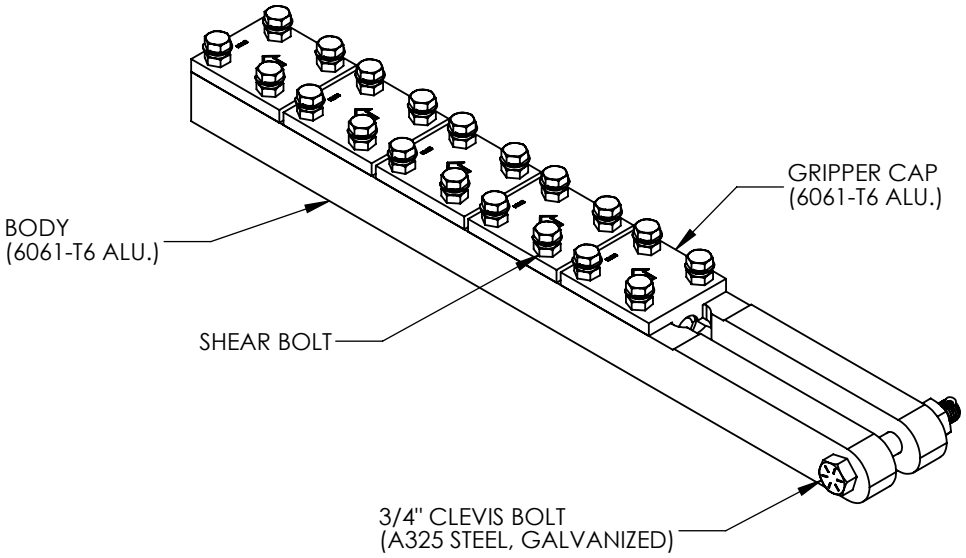
Extra Large OPGW Dead-Ends

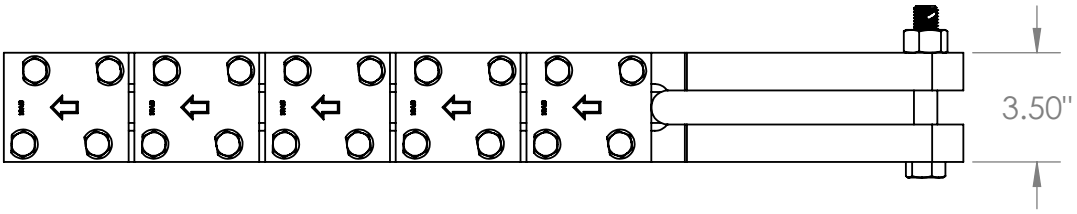
developed by CONNECTOR PRODUCTS INC are designed as a full tension termination of Optical Grounding Wire Spans (OPGW). The patented left and right hand gripper design is incorporated into the extra large version for added strength and stability.

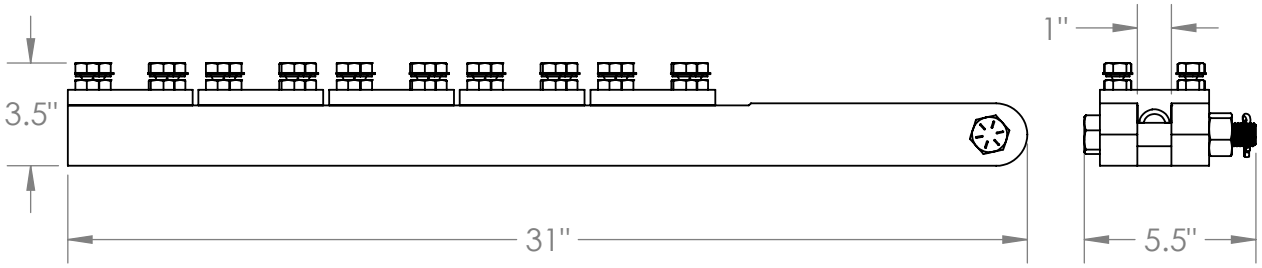
Break away shear head bolts are used to ensure that the proper gripping force is applied on the cable without attenuating the optical signal.

Features

- Compact length allows for complete installation from the structure, and is easier to install then formed wire dead ends.
- Shear head bolts ensure proper gripping force to achieve maximum holding strength
- Shorter and easier to install then formed wire dead ends
- Design Criteria
  - Sustained Load, 95% or cable RBS
  - Ultimate mechanical strength of 60,000 lbs.
- Each design is tested in house to ensure performance before shipment.
- Designed for extra large OPGW ranging from .625" - 1.125" overall diameter
- Must be used in conjunction with CPI grounding jumper (See Page #)
- Please contact factory and provide cable specifications when ordering.





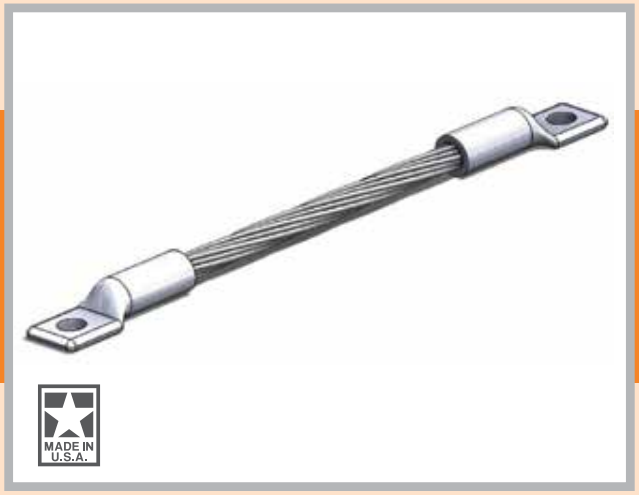


All OBDE-XL's are supplied with a clevis bolt, hex nut, and cotter pin

Catalog #	Dia. Range (Millimeters)		Dia. Range (Inches)	
	Min	Max	Min	Max
OBDE-XL 14.8 - 15.5	14.8	15.5	0.583	0.611
OBDE-XL 15.5 - 16.2	15.5	16.2	0.611	0.638
OBDE-XL 16.2 - 17.0	16.2	17	0.638	0.67
OBDE-XL 17.0 - 17.9	17	17.9	0.67	0.705
OBDE-XL 17.9 - 19.0	17.9	19	0.705	0.749
OBDE-XL 19.0 - 21.1	19	21.1	0.749	0.831
OBDE-XL 21.1 - 22.1	21.1	22.1	0.831	0.871

Connector Products Inc. "Better Products by Design"

Aluminum Bonding Wire



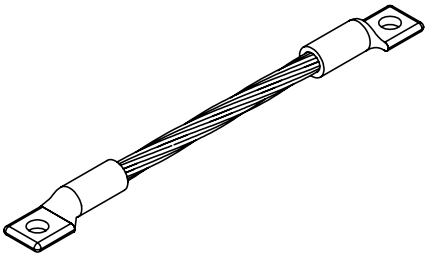
Aluminum Bonding Wire

assemblies can be used in conjunction with Connector Products Inc OPGW dead-ends as a path to ground from the conductor to the structure.

Available in mulitple lengths.

Features

- Factory installed lugs, available as single or double sided.
- Industry standard 4/0 19 stranded aluminum, providing flexibility
- Availble in multiple factory determined lengths or custom lengths if needed.
- Pre-assembled bonding jumpers make planning and ordering material for specific jobs easier



The Aluminum Bonding Wires are to be used in combination with OPGW Dead-Ends or other equipment.

PART # ORDERING INFORMATION

AW400TLL(H)

AW400	T	LL	H
Aluminum Bonding Wire	Number of Terminals S = Single D = Double	Dimension "L" from Chart	H = Hardware Supplied Blank = No Hardware

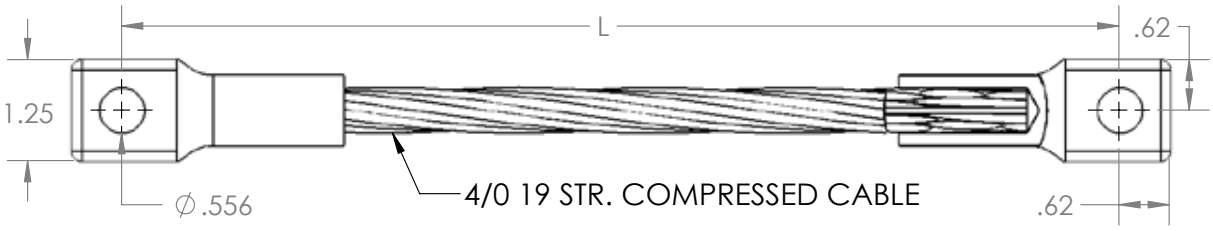
E.G: **AW400D36H** (Bonding Wire, 2 Terminals installed, Dimensions "L" is 36", Hardware supplied)

L
24"
36"
40"
60"
68"

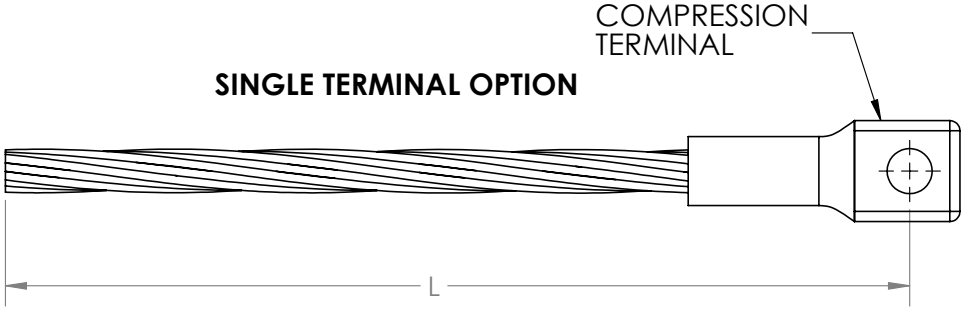
Terminal Hole Diameter
14mm (.556")

NOTES:
1. Terminals will be compressed onto cable at factory.
2. If Part # configuration does not contain two Terminals, dimension "L" references wire end (reference Single Terminal Option below).

DOUBLE TERMINAL OPTION



SINGLE TERMINAL OPTION



Connector Products Inc. "Better Products by Design"

OPGW Attachment Accessories

Anchor Shackles

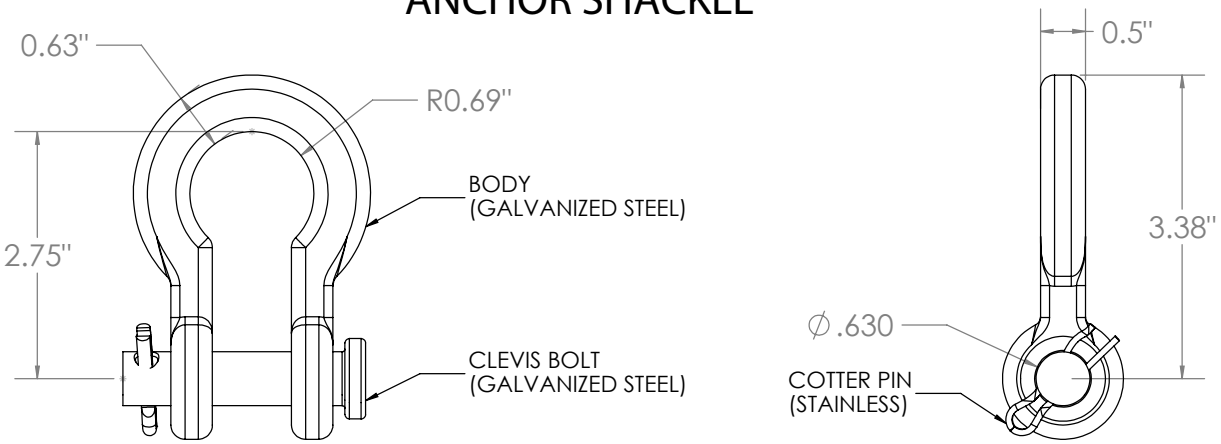
are used to attach insulators, yokes and a variety of plates to the tower.

Extension Links

are used to attach and maintain proper tower clearance for OPGW Dead Ends or other hardware within a transmission assembly.

CPI extension links are available in a variety of standard and custom sizes at reduced delivery times.

ANCHOR SHACKLE



Catalog #	Ultimate Strength	Approx. Weight
LHAS625	30000 LBS	1 LBS

OPGW BOLTED DEAD END EXTENSION LINK

TENSILE RATING: 40,000 LBS.

Anchor Shackles and Extension Links are used to attach and maintain proper tower clearance for OPGW Dead-Ends or other hardware for transmission applications.

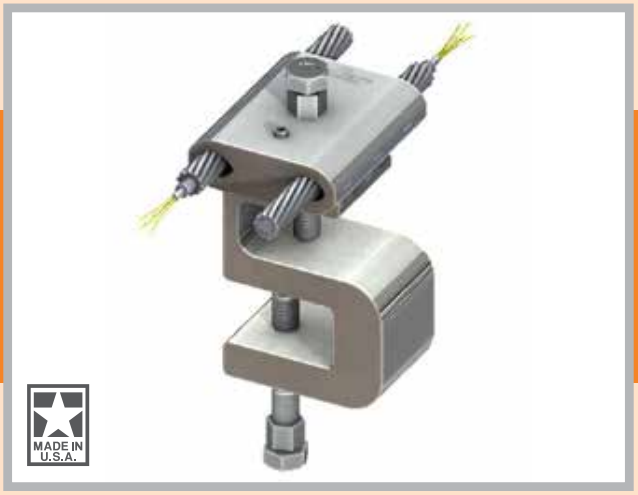
CPI Extension Links are available in a variety of standard and custom sizes at reduced delivery times.

Catalog #	Dim. A	Dim. B	Weight
OEXL 5	5”	7”	2.4 lbs.
OEXL 10	10”	12”	4.4 lbs.
OEXL 15	15”	17”	6.2 lbs.

Please consult factory for sizes not listed here

Connector Products Inc. "Better Products by Design"

OPGW Down Lead Clamps



CPI Down Lead Clamps

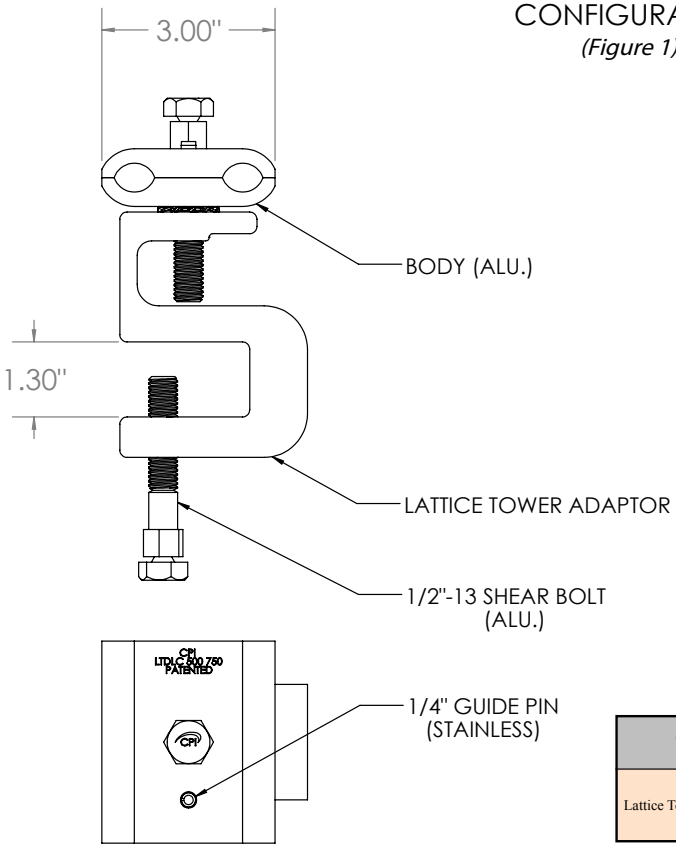
are used to attach Optical Ground Wire to the Tower or Pole as it is guided to and from the splice box

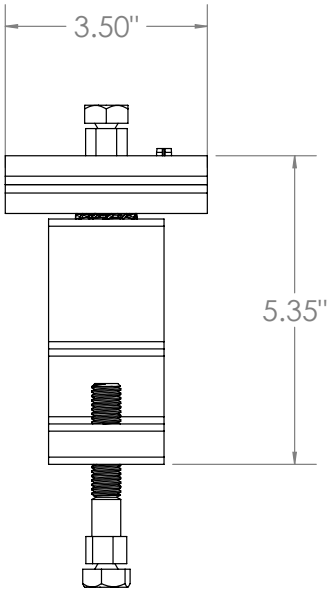
Features

- Will not damage or attenuate optical fibers.
- Wide conductor range taking ability.
- Only three part numbers are needed to accommodate wires ranging from .25″-1.00″.
- Available for both banding and lattice tower applications.
- Use of banding adaptors eliminates the need for drilling into steel poles.
- Lattice tower adaptors cover the full range of tower steel thickness with only one part number.
- Eliminates the need for multiple stock codes.
- The torque control shear head bolt prevents over-tightening.
- A guide pin prevents installation errors and protects the OPGW by lining up the top bottom of the clamp as it is tightened.
- Lattice tower configurations (shown right) contain a device that prevents rotation. This facilitates one handed installation and locks the clamp to the tower attachment.
- Unique design allow for reduced manufacturing delivery times.

LATTICE TOWER CONFIGURATION

(Figure 1)

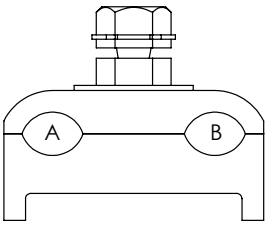


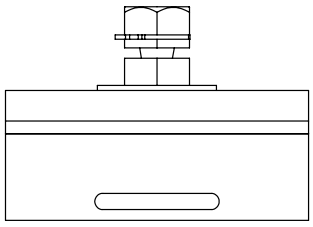


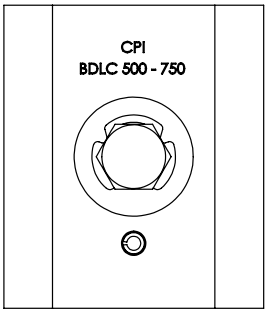
Type	Catalog #	Wire Dia. Range Inches	Tower Steel Thickness Inches
Lattice Tower *(Figure 1)*	LTDLC 250-500	.250-.500	.25-1.25
	LTDLC 500-750	.500-.750	
	LTDLC 750-100	.750-1.00	

BANDING CONFIGURATION

(Figure 2)





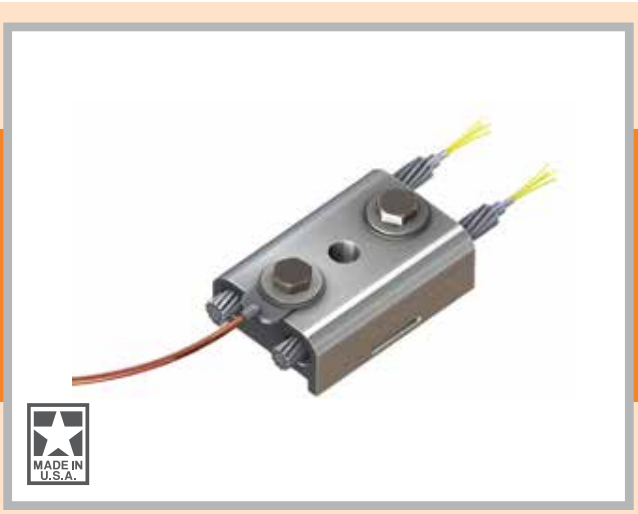


Type	Catalog #	Wire Dia. Range Inches	
		Groove A	*Groove B*
Banding *(Figure 2)*	BDLC 250-500	.250-.500	.250-.500
	BDLC 500-750	.500-.750	.500-.750
	BDLC 750-100	.750-1.00	.750-1.00

PLEASE CONSULT THE FACTORY FOR CUSTOM SIZES

CPI Connector Products Inc. "Better Products by Design"

OPGW Grounding Down Lead Clamp



CPI OPGW Grounding Down Lead Clamp

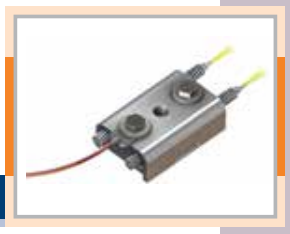
is designed to connect OPGW to the pole or structure as it is routed down to the splice-box. The grounding lug can be attached to either bolt point and adds an additional layer of safety by grounding out any voltage that may be picked up through the OPGW as it travels through the phases.

Features

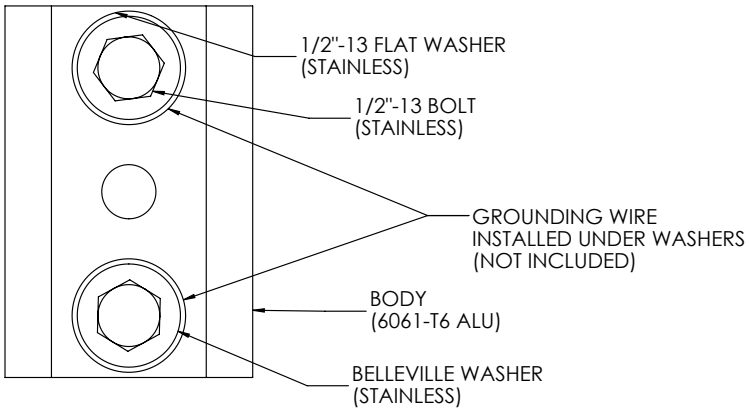
- Offers a grounding point for both legs of OPGW.
- Will not cause signal attenuation.
- Through hole accepts 5/8" bolt for direct attachment to Wood or Steel Poles.
- Side slots accept band up to 1-1/2"
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- Constructed of the finest quality aluminum alloy for optimal conductivity.
- Stainless Steel hardware for corrosion resistance.
- Short manufacturing lead times allows most sizes to be available In-Stock directly from the factory.

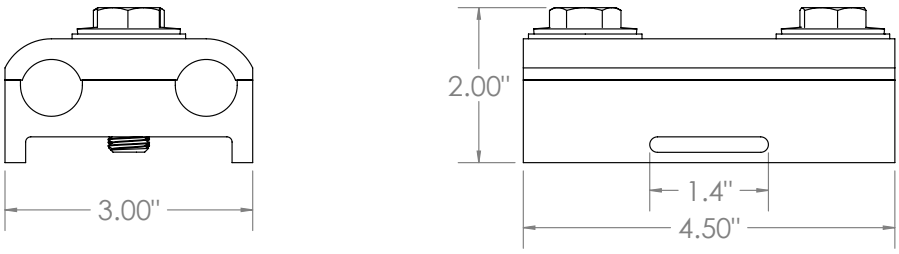
Notes:

- Lattice tower attachments are available upon request.
- Please provide Cable Outside Diameter when ordering.
- Customer to supply grounding wire termination lug.
- See corresponding page for product specifications and part numbers.



OPGW GROUNDING DOWNLEAD CLAMP



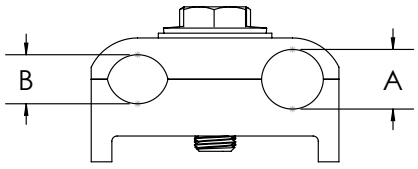


Catalog #	OPGW Diameter	
	SIDE A	SIDE B
OGDLC .504	.504"	.504"
OGDLC .551	.551"	.551"
OGDLC .638	.638"	.638"
OGDLC .676	.676"	.676"
OGDLC .709	.709"	.709"

PLEASE CONSULT FACTORY FOR OPGW SIZES NOT LISTED HERE

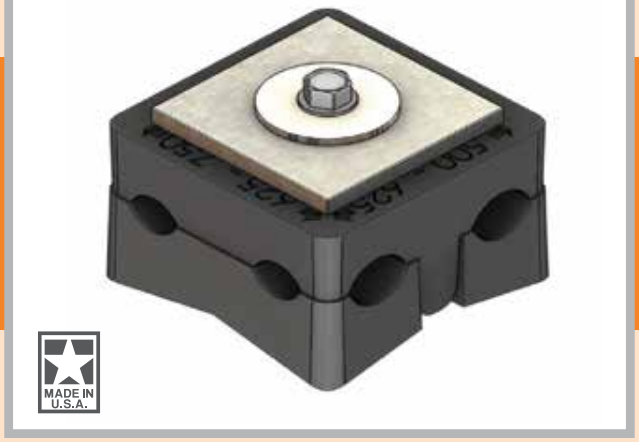
NOTE: SIDE A & SIDE B CAN BE DIFFERENT

Ex: OGDLC .742 - .614, manufactured for two different OPGW wire sizes.



CPI Connector Products Inc. "Better Products by Design"

Universal Downlead Cushion

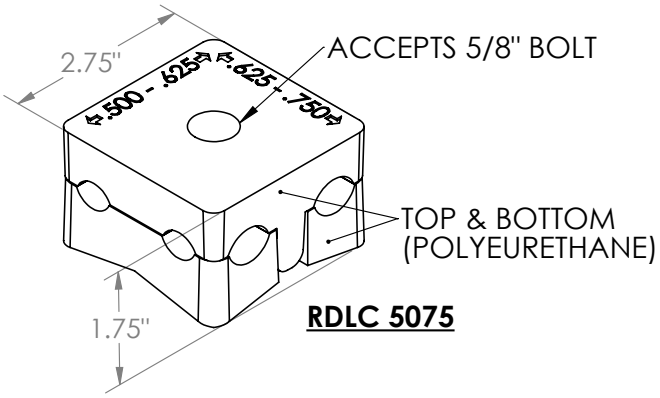


The Universal Downlead Cushion

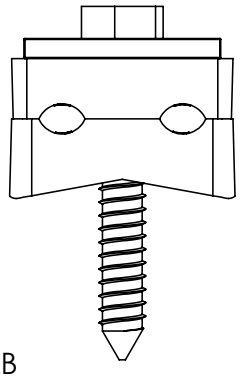
developed by Connector Products, Inc., is designed to attach Optical Ground Wire (OPGW) or ADSS cable to the tower, pole or structure as it is guided to and from the splice box.

Features

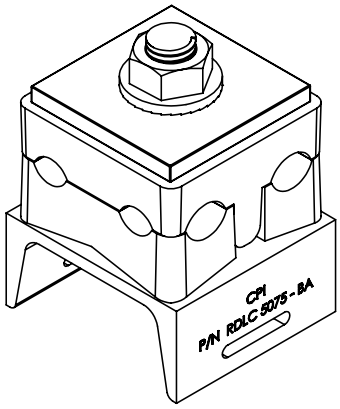
- Multiple channels to accept most sizes of OPGW or ADSS conductor, cutting down on stock codes and inventory required.
- Molded in Urethane to create a weather resistant clamp that is extremely durable, yet flexible to accomadate ADSS cable.
- Will not damage or attenuate the fibers
- A unique "key" in the molded design is provided to ensure correct channels are used.
- Clearly marked ranges on both the outside of the clamp, as well in the channels where the conductor lays.
- Through hole molded to accept standard 5/8" mounting hardware
- Optional mounting hardware shown and available upon request.



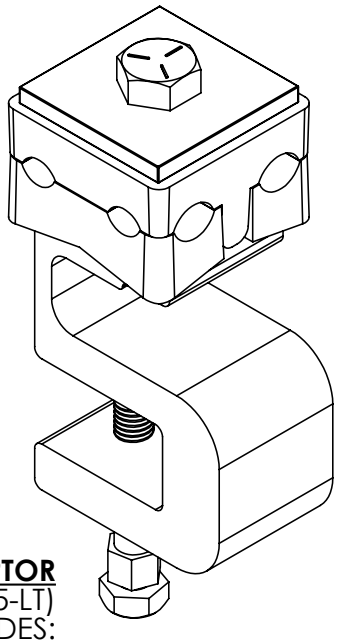
RDLC 5075



LAG BOLT
(RDLC 5075-LB
HARDWARE INCLUDES:
SQUARE WASHER, LAG BOLT



BANDING ADAPTOR
(RDLC 5075-BA)
HARDWARE INCLUDES:
SQUARE WASHER, BOLT AND FLANGE HEX NUT



LATTICE TOWER ADAPTOR
(RDLC 5075-LT)
HARDWARE INCLUDES:
TOWER ADAPTOR, SHEAR BOLT, SQUARE WASHER AND BOLT

CATALOG #	RANGE	
	SIDE A	SIDE B
RDLC 5075	.500" -.625"	.625" - .750"
RDLC 5075-BA		
RDLC 5075-LT		
RDLC 5075-LB		

Please consult factory for wire sizes not listed here

CPI Connector Products Inc. "Better Products by Design"

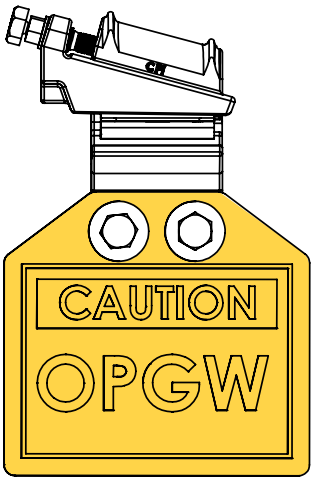
OPGW Warning Sign Clamp

The OPGW Warning Sign Clamps

developed by Connector Products, Inc., are used on the span to clearly mark the presence of Optical Grounding Wire (OPGW) conductor.

Features

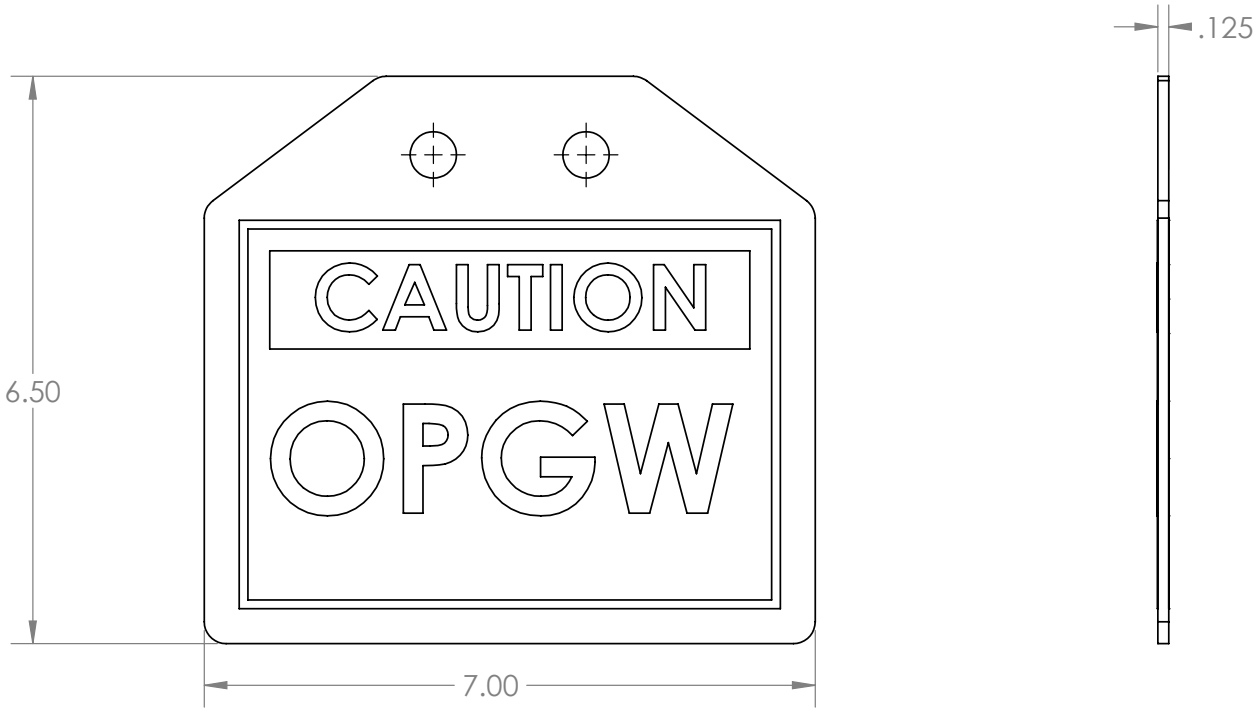
- Clamp will not damage or attenuate the fibers of the Optical Grounding Wire
- Easy to install without the use of special tools
- The "spring-like" qualities of the C-body ensure constant and consistent pressure on the conductor through normal expansion and contraction
- High conductivity grit type corrosion inhibitor is factory applied for ease of installation and longetivity of the clamp.
- Warning sign is printed with black lettering over an orange background to maximize visibility on the span.
- Sign is constructed of a polycarbonate material with a reflective material.
- This double sided sign has a minimum life expectancy of 20-25 years in exterior environments.
- Unit is factory assembled for ease of installation in the field.



FACTORY ASSEMBLED WITH 1/2"-13 BOLTS, WASHERS, AND HEX NUTS

MINIMUM LIFETIME EXTERIOR DURABILITY OF 20-25 YEARS

MATERIAL: POLYCARBONATE



Dia. Range	Pad Size	Catalog #
.292" - .414"	2 Hole	**723210-1WS**
.414" - .502"	2 Hole	**723003-1WS**
.522" - .720"	2 Hole	**723004-1WS**
.720" - .918"	2 Hole	**723005-1WS**
.918" - 1.125"	2 Hole	**723006-1WS**
1.125" - 1.197	2 Hole	**723007-1WS**
1.216" - 1.302"	2 Hole	**723008-1WS**

Connector Products Inc. "Better Products by Design"

OPGW Bonding & Grounding Connector

CPI OPGW Bonding & Grounding Connectors

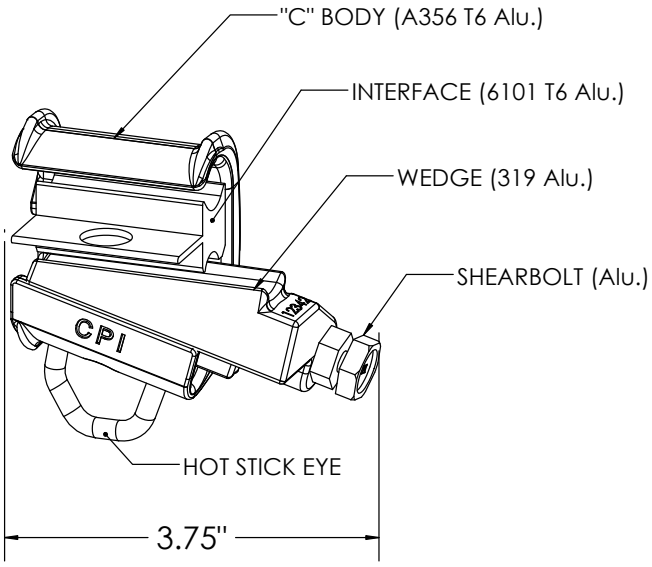
are designed for use as a permanent or temporary connection on all types of Optical Ground Wire (OPGW) in tower grounding applications.

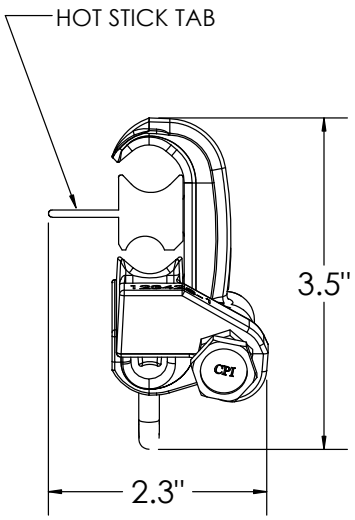
Torque applied to the Shear Bolt drives the wedge into the connector and creates a deflection in the "C" body. This deflection creates a "spring pressure" mechanical connecting force on the conductors for optimal electrical conductivity.

When proper spring tension is achieved, the ShearHead Bolt will break off, giving the installer a positive indication of a correctly completed connection. This eliminates the need for any specialized tools, torque wrenches or compression dies.

Features

- Will not cause fiber signal attenuation in the OPGW, insuring optimal performance of the conductor.
- No special tools required for installation.
- Easy to install by glove or standard Hot Stick tooling.
- Quicker that standard crimp type connections that cannot be used on OPGW.
- Easy to remove without damaging cable.
- Exclusive high-conductivity grit type corrosion inhibitor is factory applied for ease of installation and longevity while the connector is in service.
- An increased conductive path and surface contact area increases current ampacity rating.
- Constructed of A356 T6 and 6101-T6 aluminum alloy in combination to provide high strength and conductivity.
- Remains permanently locked through fault current or power surges.
- Tooling maintenance cost is reduced by eliminating specialized tools.





OPGW O.D.	Tap Conductor O.D.	Tap Conductor Description	Catalog #
.354" - .430"	.198" - .232"	#6 ACSR, #4 AAC	**210103**
	.232" - .325"	#4, #2, #1 AAC	**210105**
	.355" - .414"	#1 ACSR, 1/0, 2/0 AAC	**210106**
.430" - .502"	.198" - .232"	#6 ACSR, #4 AAC	**230107**
	.232" - .292"	#4, #2 AAC	**230108**
	.292" - .354"	#2 ACSR, #1	**230109**
	.354" - .414"	1/0, 2/0 AAC	**230110**
	.447" - .502"	2/0, 3/0	**230111**
.502" - .589"	.198" - .232"	#6 ACSR, #4 AAC	**264111**
	.250" - .328"	#4 ACSR, #2, #1 AAC	**264112**
	.354" - .414"	#1 ACSR, 1/0, 2/0 AAC	**264113**
	.447" - .502"	2/0, 3/0,	**264114**
	.522" - .574"	4/0, 250 AAC	**264115**
.590" - .684"	.162" - .232	#6 SOL, #4 AAC	**350117**
	.232" - .292"	#4, #2 AAC	**350118**
	.276" - .328"	#2, #1 AAC	**350119**
	.328" - .398"	#1, 1/0	**350120**
	.398" - .447"	1/0 ACSR, 2/0	**350121**
	.447" - .502"	2/0 ACSR, 3/0	**350122**
	.522" - .574"	4/0, 250	**350123**
	.592" - .642"	266.8 -19 AAC, 300 AAC, 266.8 ACSR	**350124**
	.665" - .684"	350, 336.4 18/1	**350125**
.666" - .750"	.162" - .257"	#6 SOL, #4	**336200**
	.257" - .368"	#4 ACSR, #2, 1/0 AAC	**336104**
	.368" - .502"	1/0 AAC, 2/0, 3/0,	**336012**
	.522" - .592"	4/0 ACSR, 266.8 AAC	**336866**
	.642" - .806"	266.8 ACSR 36/7, 336.4, 397.5	**336718**

CPI Connector Products Inc. "Better Products by Design"

Lattice Tower Sign Clamp

The CPI Lattice Tower Sign Clamp

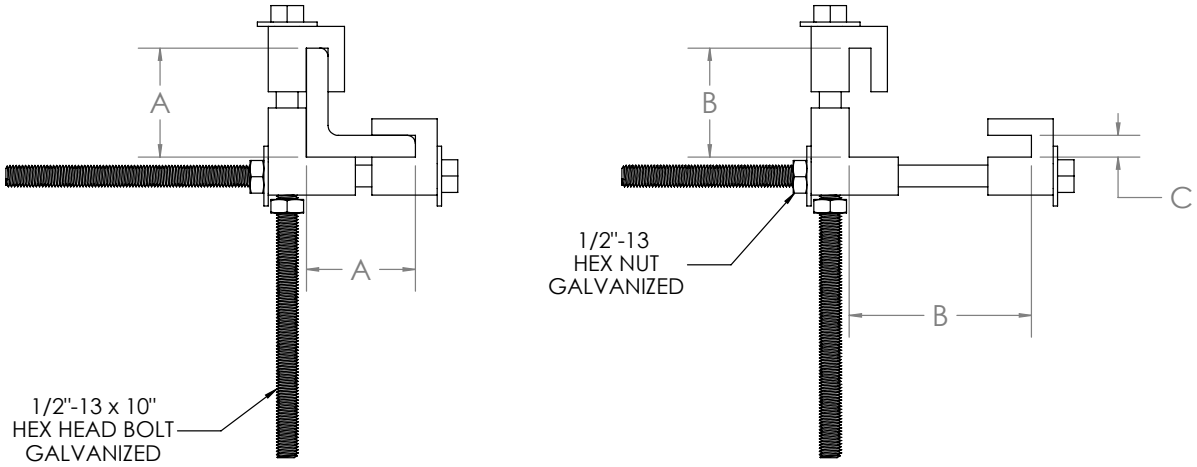
is designed to hold a variety of signage to various sized support structures.

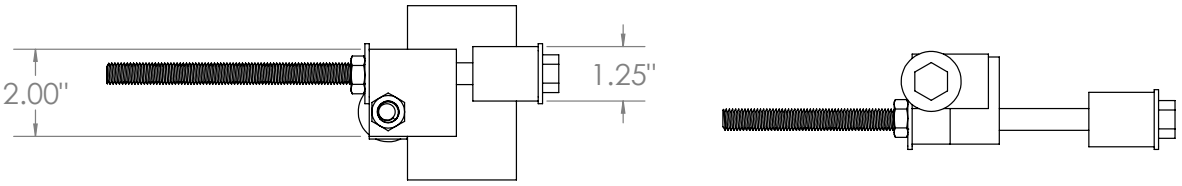
Features

- Constructed of alloy steel.
- All components are Galvanized to resist corrosion.
- Accepts a wide range of structural steel sizes.
- The complete assembly includes:
  2 - hex bolts
  2 - hex nuts
  2 - high flange washers
  3 - clamping feet.

Note: Sign not included.

LATTICE TOWER SIGN CLAMP



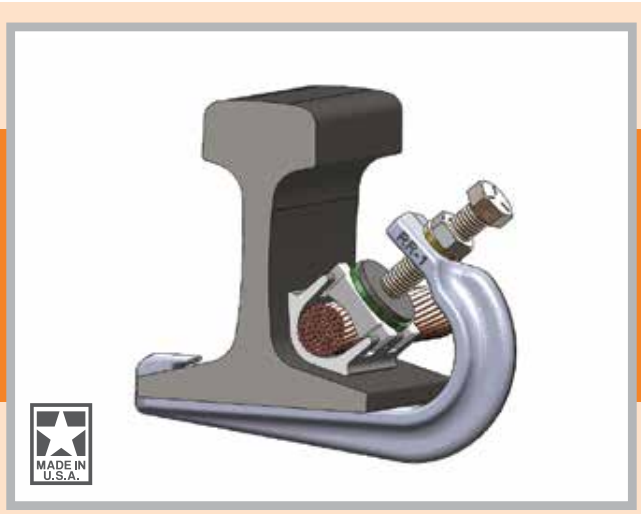


Dimensions			Catalog Number
A	B	C	
2.5"	7.5"	.50"	**LTSC 100**
2.5"	8.0"	.63"	**LTSC 200**

NOTE: Bolt length may be modified upon request

CPI Connector Products Inc. "Better Products by Design"

Running Rail Connector



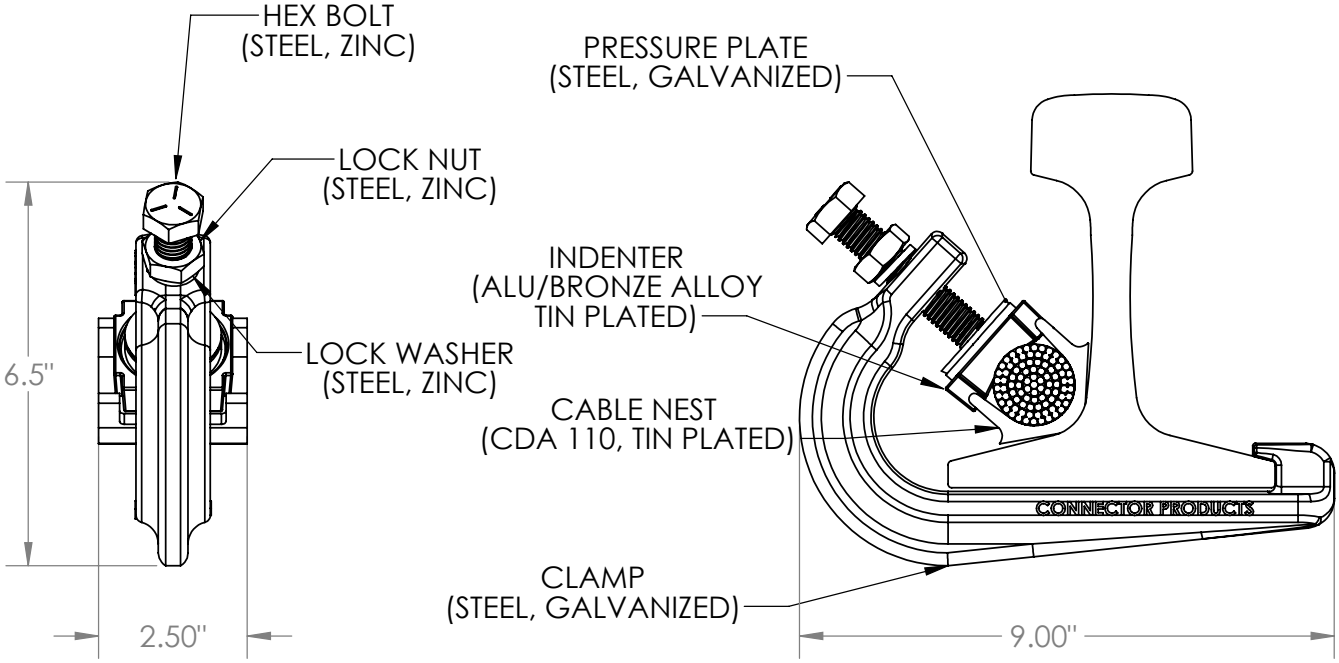
The CPI Running Rail Connector

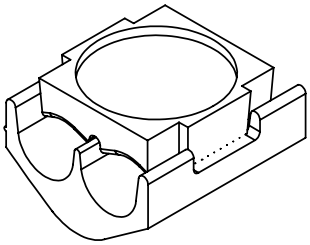
is designed as a permanent connection for copper conductor to a variety of rails used in Heavy Rail Mass Transit systems.

Constructed using a Heavy Duty Aircraft quality steel spring member, Copper Cable Nest, Indentor, Hex Head Bolt and Locking Nut.

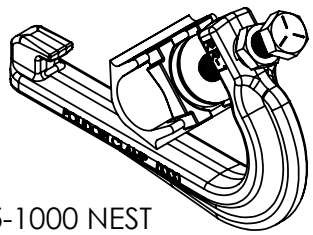
Features

- No need to drill holes in the rail.
- No need to weld conductor to the rail.
- The rail is not subjected to warping by excessive heat or to weakening by drilling.
- Labor Saving- Installation time in as little as 10 minutes per connection.
- Fewer rail connections required because of the large conductor capacity.
  - Single conductors up to 1000 MCM
  - Dual conductors up to 750 MCM
- Large conductors can be bent away from the rail after installation without the risk of damaging the connector unlike Compression type lugs that can crack during this process.
- The Clamp is an active spring that applies a consistent force on the conductor ensuring a positive connection through heat cycling and train vibration.
- The "J" shaped spring member of the connector helps overcome loosening problems associated with harsh train vibrations by flexing rather than breaking, whereas a static type connection doesn't have this resiliency and could crack under prolonged vibration.
- The consistent spring pressure also prevents moisture and contamination from seeping into the connection.
- All Copper components are Tin Plated and Steel Components are Galvanized.





115-2-500 NEST
CONFIGURATION

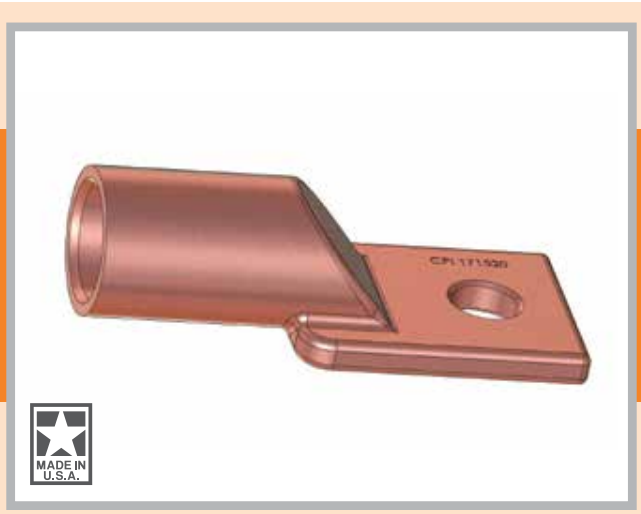


115-1000 NEST
CONFIGURATION

Single Conductor Connectors		
Rail Size & Type	**Conductor Size & Range**	**Catalog #**
115 lb A.R.E.A	1000MCM - 1250MCM	**115-1000A**
115 lb A.R.E.A	750MCM	**115-750**
85 lb A.R.E.A	1000MCM	**85-1000**
Two Conductor Connections		
115 lb A.R.E.A	2 250MCM - 2 500MCM	**115-2-500**
115 lb A.R.E.A	2 750MCM	**115-2-750**
85 lb A.R.E.A	2 500MCM	**85-2-500**

CPI Connector Products Inc. "Better Products by Design"

1000 MCM Heavy Wall Terminal Lug

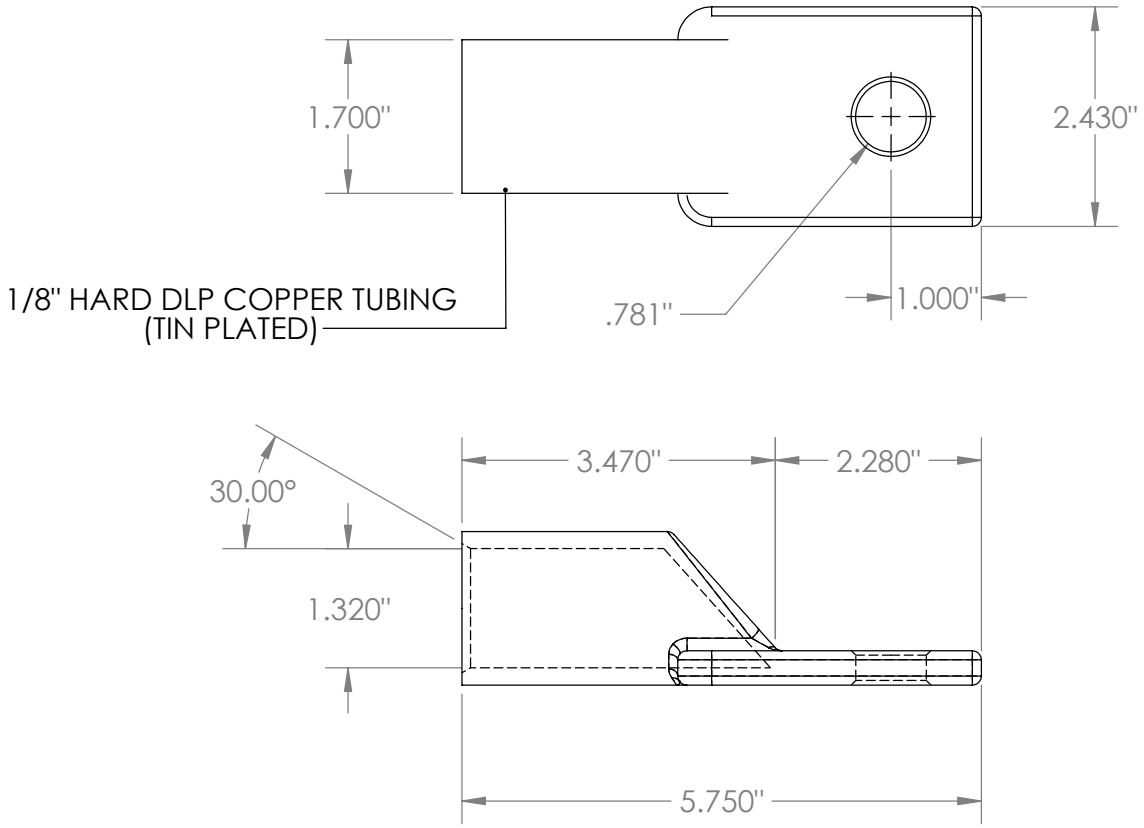


CPI Heavy Wall Compression Lugs

are designed for use as a permanent connection on copper wire of any stranding. The lug can be bolted to a variety of flat or buss type conductors. This connector is particularly well suited for high flex 1000 MCM copper conductor that is used to connect third rail mass transit systems.

Features

- The Compression Lug Terminal meets UL 486 & NEMA performance standards for 500 cycles.
- Manufactured from 1/8 hard DLP Copper tubing, "60 degree F 28,000 PSI yield" for optimal electrical conductivity.
- Heavy wall construction prevents lugs from breaking while in service.
- Designed for the most heavy duty applications.
- Tin Plated to withstand corrosion in severe environmental conditions.



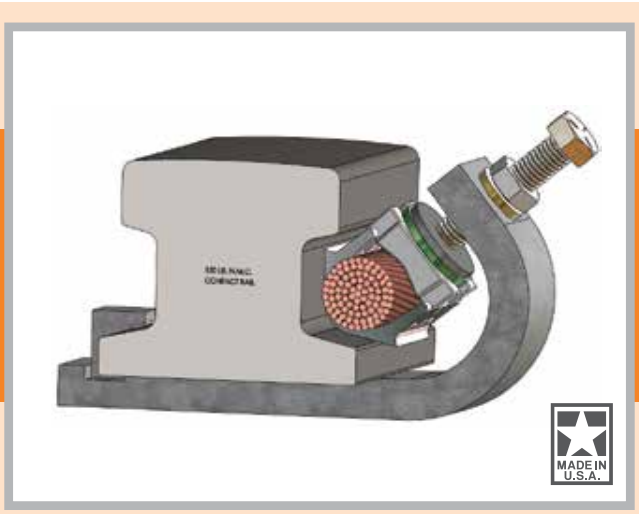
MAX WIRE SIZE	CATALOG #
1000MCM	171320

PERFORMANCE: UL 486 & NEMA 500 CYCLE STANDARDS

Standard Package: 30 Units : 49 Lbs. : 11" x 7" x 7" Box

CPI Connector Products Inc. "Better Products by Design"

Contact Rail Connector

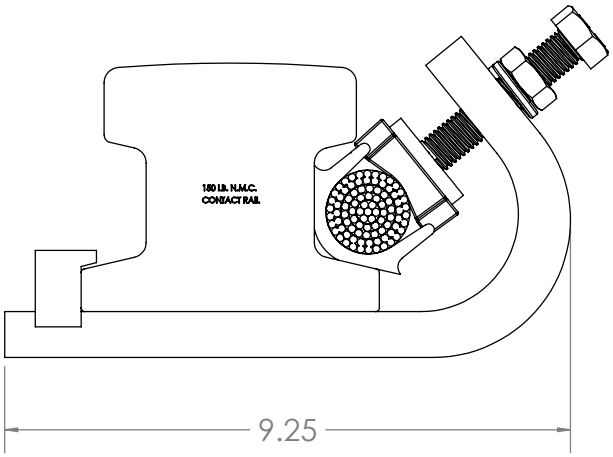


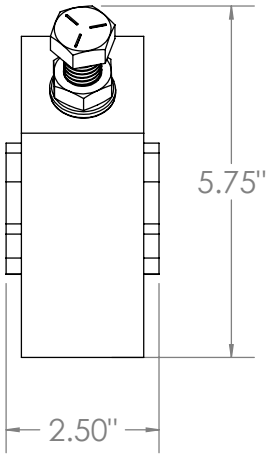
The CPI Contact Rail Connector is designed as a permanent connection for Cu conductor to a variety of rails used in Heavy Rail Mass Transit systems.

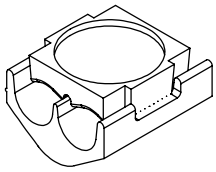
Constructed using a Heavy Duty Aircraft quality steel spring member, Copper Cable Nest, Indentor, Hex Head Bolt and Locking Nut.

Features

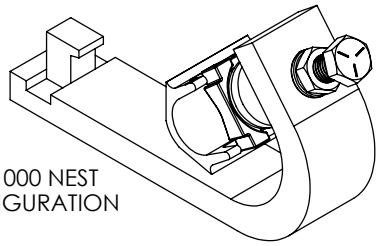
- No need to drill holes in the rail.
- No need to weld conductor to the rail.
- The rail is not subjected to warping by excessive heat or to weakening by drilling.
- Labor Saving- Installation time is 1/6 man hours.
- Fewer rail connections required because of the large conductor capacity.
  - Single conductors up to 2000 MCM
  - Dual conductors up to 750 MCM
- Large conductors can be bent away from the rail after installation without the risk of damaging the connector. Unlike Compression type lugs that can crack during this process.
- The Clamp is an active spring that applies a consistent force on the conductor ensuring a positive connection through heat cycling and train vibration.
- The "J" shaped spring member of the connector helps overcome loosening problems associated with harsh train vibrations by flexing rather than breaking. Whereas a Static type connection doesn't have this resiliency and could crack under prolonged vibration.
- The consistent spring pressure also prevents moisture and contamination from seeping into the connection.
- All Copper components are Tin Plated and Steel Components are Galvanized.







150-2-500 NEST
CONFIGURATION



150-1000 NEST
CONFIGURATION

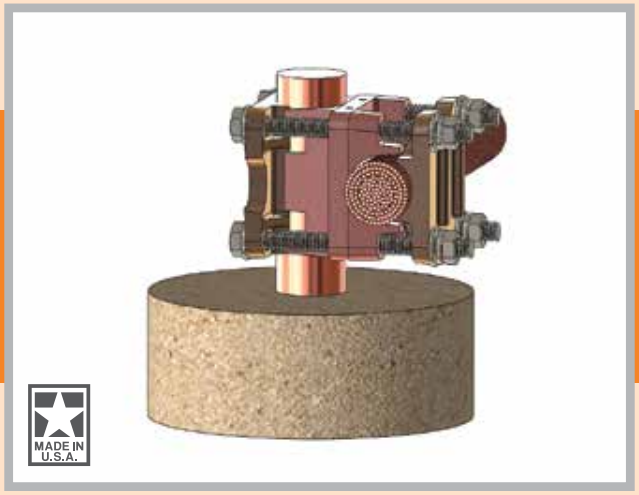
Rail Size & Type	Conductor Size & Range	Catalog #
150 lb NMC	1000MCM	**150-1000**
150 lb NMC	2000MCM	**150-2000**
Two Conductor Connections		
150 lb NMC	2 250MCM - 2 500MCM	**150-2-500**

For any rail or conductor combination not listed above consult factory

STANDARD PACKAGE: Full Carton: 8 Units: 11" x 11" x 11.5" Box: 48 Lbs.

CPI Connector Products Inc. "Better Products by Design"

2000 MCM Cathode Connector



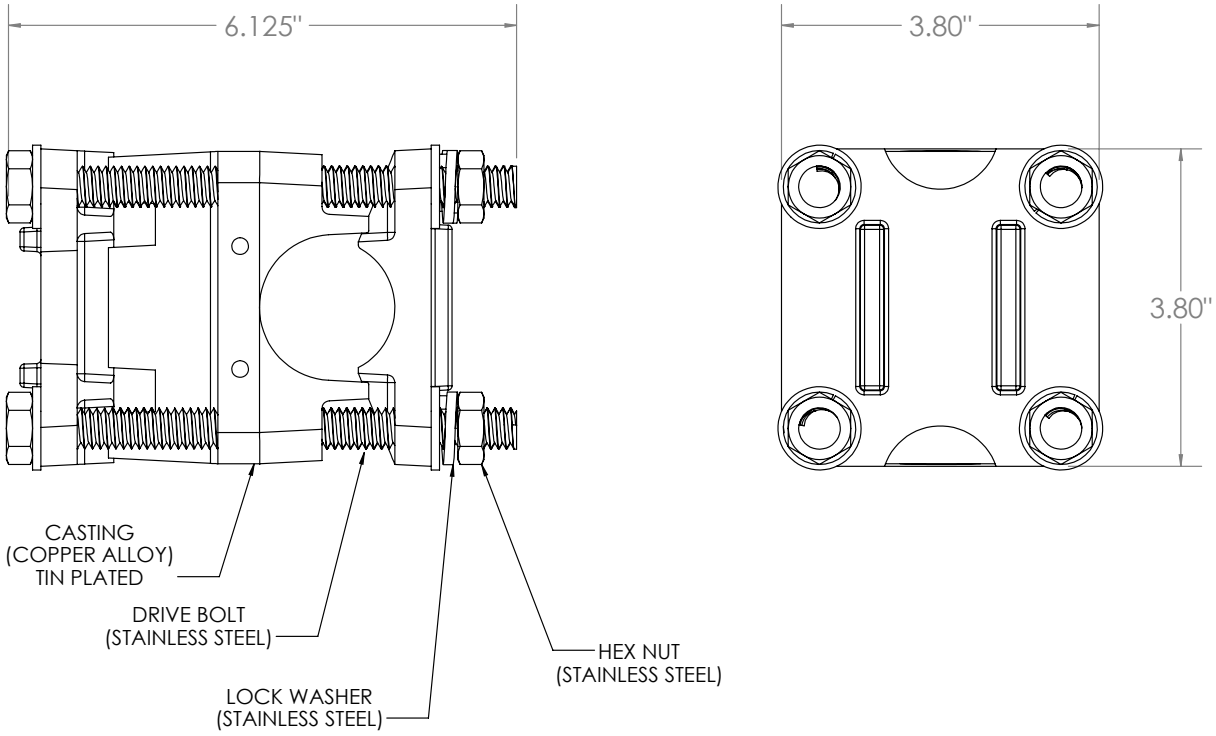
The CPI Cathode Connector

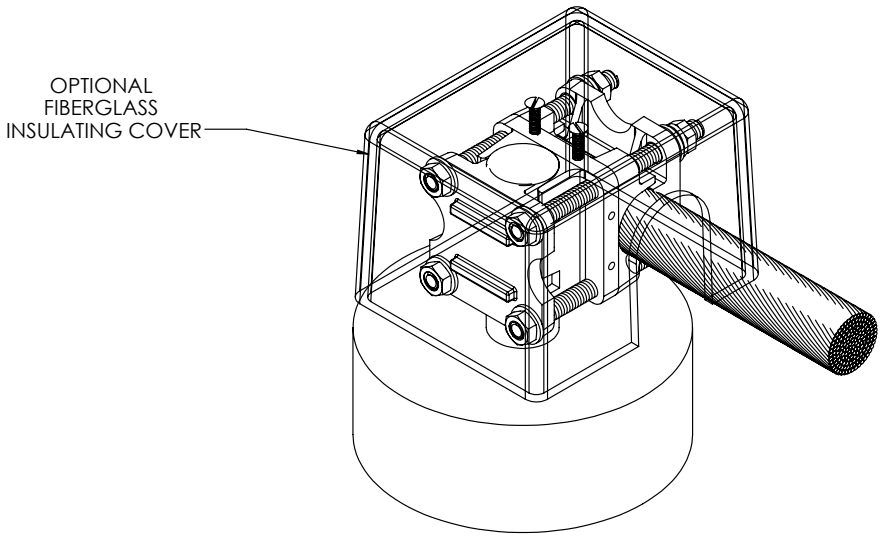
aka "Pot Head Connector" is designed to connect a single 2000 MCM conductor from the main feeder directly to the Third Rail.

When used in conjunction with the CPI Contact Rail Clamp, a Pot Head connector can replace the need for having 4 separate 500 MCM connections with one single 2000 MCM connection.

Features

- Constructed of High Conductivity Copper.
- The assembly comes standard with a Tin Plated Finish (not pictured).
- Incorporates the use of a Stainless Steel hardware for increased strength and corrosion resistance.
- Optional molded fiberglass Insulation Cover available upon request.
- Simple 4 bolt installation.
- Eliminates the need for any welding.
- Recommended for use with the CPI 2000 MCM contact rail connector.

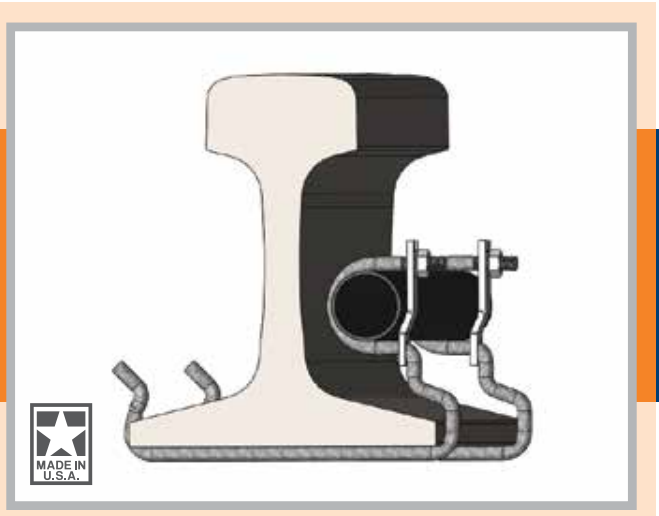




Conductor Size	Catalog#
2000 MCM	**22000**
FIBERGLASS INSULATING COVER	**750336**

CPI Connector Products Inc. "Better Products by Design"

Single Cable Support Spring Rail Clips

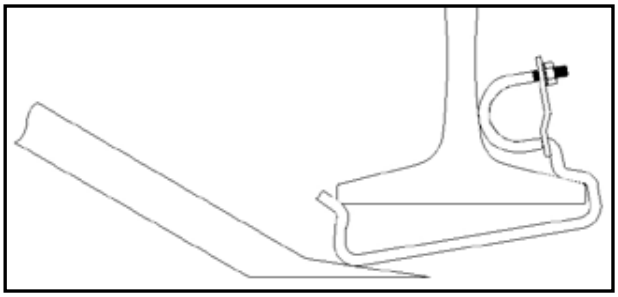


The CPI Support Spring Rail Clips

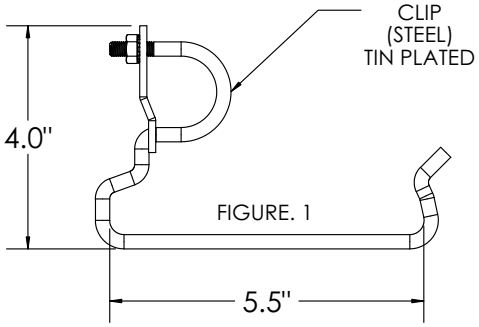
are designed to support and hold a variety of Signal cables or Conductors in a close proximity to the rail.

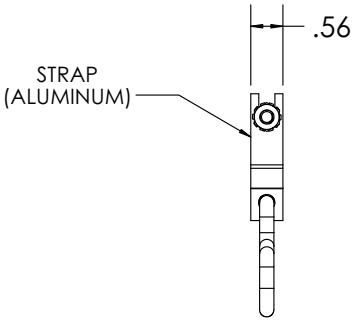
Features

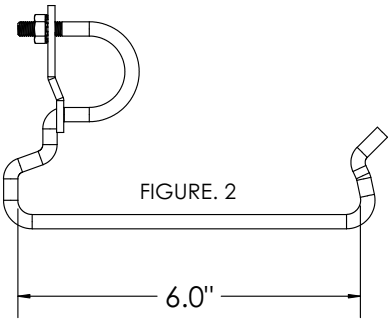
- Tempered spring steel wire construction assures a positive grip on the rail.
- All components are plated or galvanized to resist corrosion.
- Quick and easy to install. (see insert)

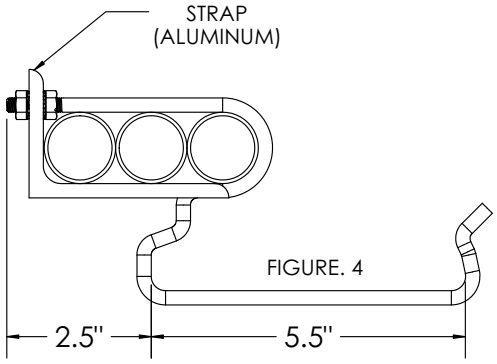


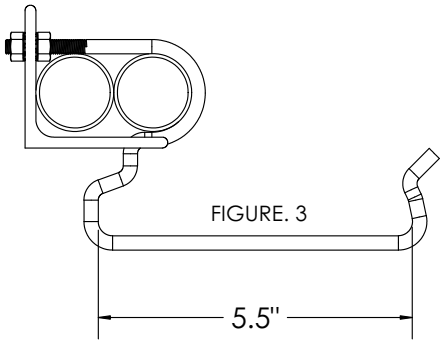
- Removable and reusable.
- Available in different configurations to accommodate different size rails and multiple conductor combinations.
- See corresponding page for product specifications and part numbers.

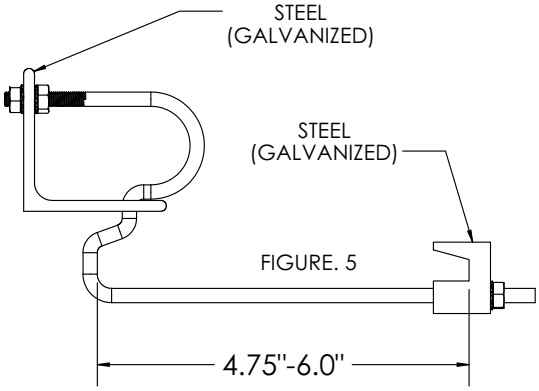












NOTE: ALL PART #'S ARE SUPPLIED WITH STANDARD ZINC PLATED KEPT NUTS.
ADD SUFFIX "N" TO THE PART # TO SPECIFY A STAINLESS STEEL NYLON INSERT NUT. EX:115-250N

Ordering Information			
Rail Size & Type	**Cable O.D & Capacity**	**Figure #**	**Catalog #**
115 LB AREA	1.25" x 1	1	**115-250**
140 LB AREA	1.375" x 1	2	**140-375**
115 LB AREA	1.095" x2 - 1.365" x2	3	**115-250-2S**
115 LB AREA	1.302" x3	4	**115-250-3**
100 ARA-B	1.095" x2 - 1.365" x2	5	**100-ARA-B-250-2**

Connector Products Inc. "Better Products by Design"

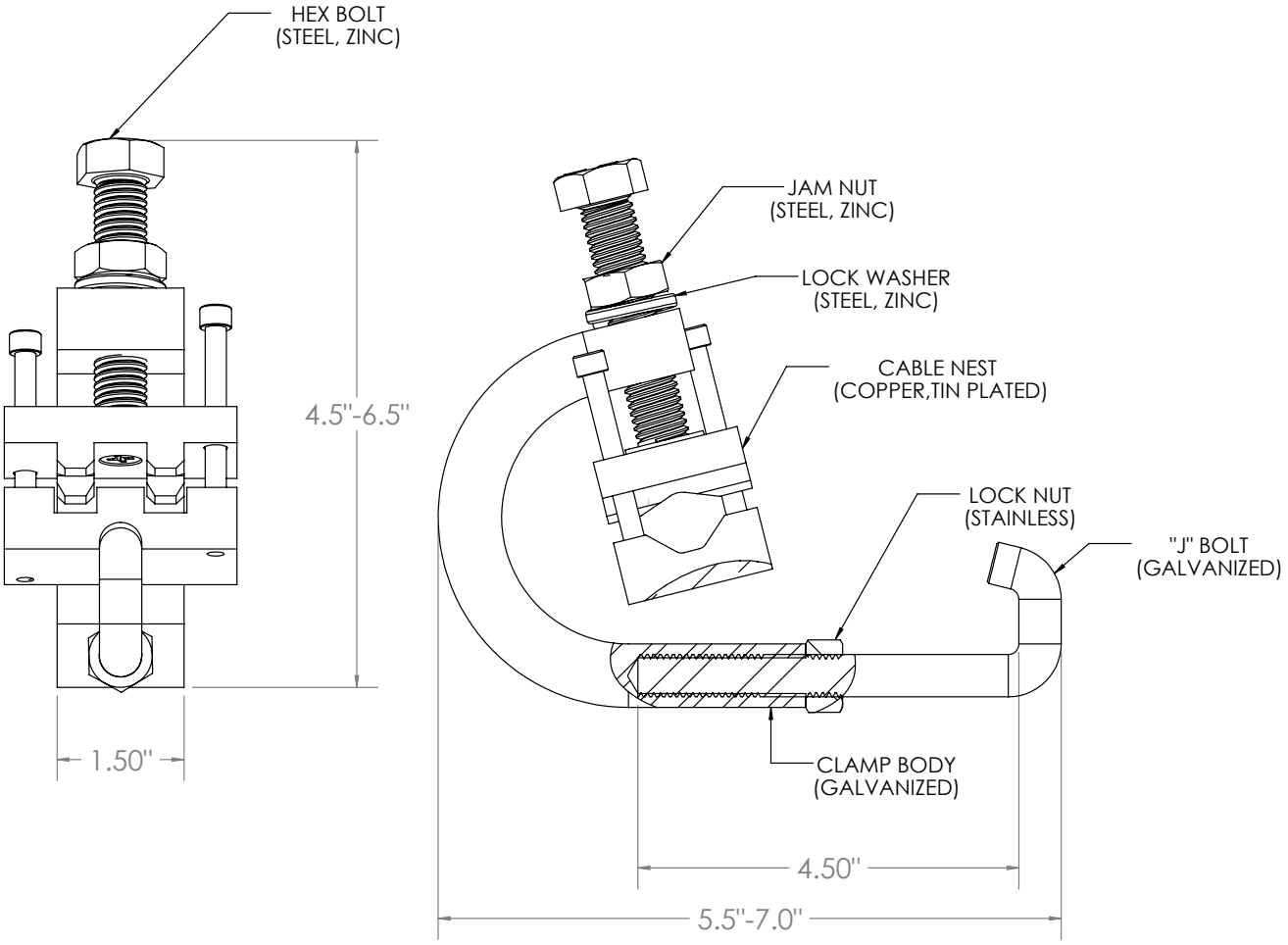
Rail Bonding Connector

The CPI Rail Bonding Connectors are designed as a permanent connection for Cu conductor to a variety of rails used in Heavy Rail Mass Transit systems.

Constructed using a Heavy Duty steel spring member, Copper Cable Nest,Hex Head Bolt and Locking Nut.

Features

- Fully Adjustable to accommodate any size Running Rail.
- No need to drill holes in the rail.
- No need to weld conductor to the rail.
- The rail is not subjected to warping by excessive heat or to weakening by drilling.
- Quick and easy Labor Saving Installation.
- Able to be installed in all weather conditions.
- The Clamp is an active spring that applies a consistent force on the conductor ensuring a positive connection through heat cycling and train vibration.
- The "J" shaped spring member of the connector helps overcome loosening problems associated with harsh train vibrations by flexing rather than breaking. Whereas a Static type connection doesn't have this resiliency and could crack under prolonged vibration.
- The consistent spring pressure also prevents moisture and contamination from seeping into the connection.
- All Copper components are Tin Plated and Steel Components are Galvanized.
- Accepts conductors from 250-500 MCM.
- 100% Removable and Re-Useable.



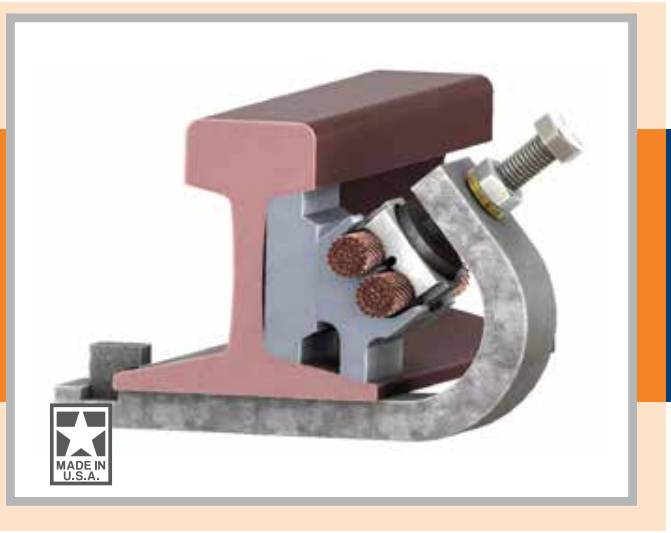
Specifications		
Rail Size & Type	**Conductor Size & Range**	**Catalog #**
All Running Rails	1/0 - 500MCM	**250400**

For any rail or conductor combination not listed above consult factory

STANDARD PACKAGE: Full Carton: 8 Units: 11" x 11" x 7" Box: 38 Lbs.

Connector Products Inc. "Better Products by Design"

Composite Contact Rail Connector

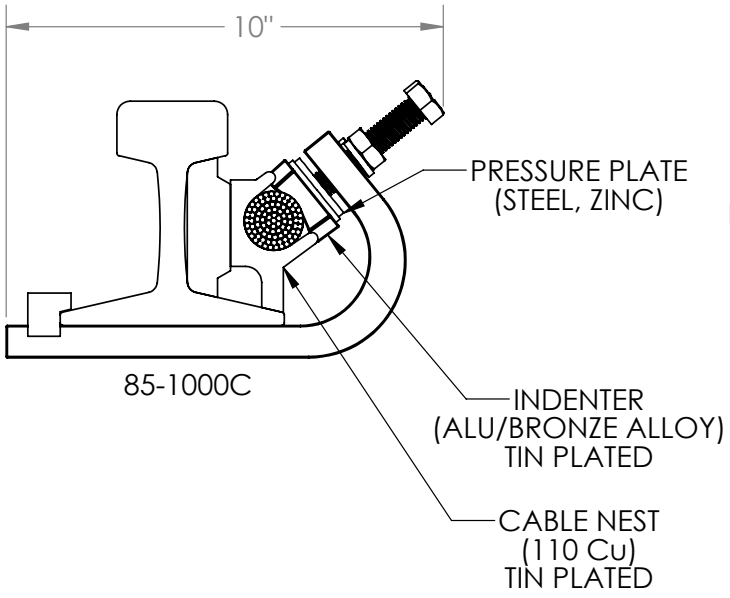


The CPI Composite Contact Rail Connector is designed as a permanent connection for Cu conductor to composite rail used in Heavy Mass Transit Systems.

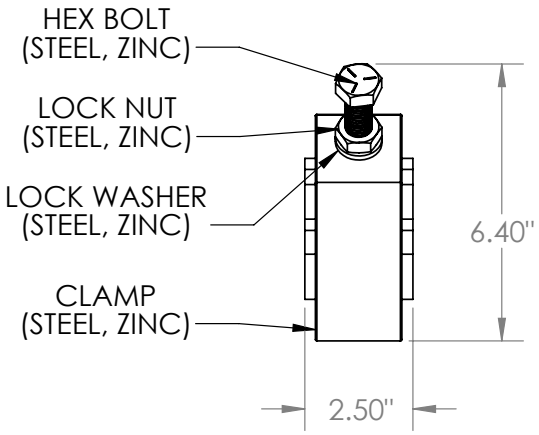
Constructed of Heavy Duty Heat Treated Steel spring member, Copper cable nest, indenter, and Hex head Bolt with Locking Nut.

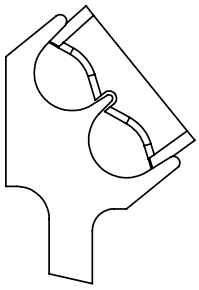
Features

- No need to drill holes in the rail
- No need to weld conductor to the rail
- The rail is not subject to warping by excessive heat or weakening from drilling
- Labor Saving – Installation time is 1/6 the man hours.
- Large Conductors can be bent away from the rail after installation without the risk of damaging the connector, unlike compression type lugs that can crack during this process.
- The clamp is an active spring that applies a consistent force on the conductor ensuring a positive connection through heat cycling and train vibration
- The consistent spring pressure also prevents moisture and contamination from seeping into the connection.

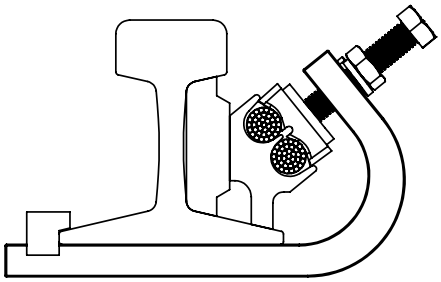


85-1000C





85-2-500C Nest



85-2-500C

Single Conductor Connectors		
Rail Size & Type	**Conductor Size & Range**	**Catalog #**
85 lb A.R.E.A	1000 MCM	**85-1000C**
Two Conductor Connections		
85 lb A.R.E.A	500 MCM	**85-2-500C**

United States Department of Agriculture | Rural Electrification Administration | Washington D.C. 20250

MAY 20 1987

Mr. Thomas Polidori
Connector Products, Inc.
P.O. Box 534
Pennsauken, New Jersey 08110

Dear Mr. Polidori:

The connectors referred to in your letters dated February 20 and April 27, 1987, have been brought to the attention of Technical Standards Committee "A" (Electric).

Your request for listing of its aluminum tap connector was accepted. Your listing will appear as follows on page p-11 of the List of Materials.

p-11

p - Connectors

Manufacturer	Aluminum-to-Aluminum	Aluminum-to-Copper	Copper-to-Copper	Tap Connections (Al to Al, Al to Cu)
Connector Products, Inc.	Aluminum Tap Connector	Aluminum Tap Connector	- - - - - -	Aluminum Tap Connector

This acceptance does not relieve the manufacturer of any responsibility for the satisfactory performance of the item and its conformity to guarantees, specifications or other provisions of contracts covering its sale. This acceptance is made with the further understanding that no changes in design or workmanship affecting the quality, strength or electrical characteristics of the item will be made without the knowledge of the Technical Standards Committees.

JAMES C. ARNOLD, JR., Chairman
Technical Standards Committee "A"
Electric Staff Division

USDA Rural Development

United States Department of Agriculture
Rural Development

September 20, 2005

Mr. Nick Polidori
Connector Products Inc.
P. O. Box 2516
Cannaminson, New Jersey 08077

Dear Mr.Polidori:

Your application for acceptance of the S1000 automatic conductor splice has been brought to the attention of Technical Standards Committee "A" (Electric).

The Committee found your S1000 automatic splice to be acceptable on a conditional basis. The S1000 automatic splice will appear on page bx(1) of the Conditional List of Materials as follows:

Conditional List
bx(1)

bx - Splice, automatic

Manufacturer		Conditions
		DISTRIBUTION
2 ACSR	(S1000)	1. To obtain experience.
#1 ACSR	(S1000)	2. For use on distribution systems only.
#2 AAC	(S1000)	
1/0 AAC	(S1000)	
2/0 AAC	(S1000)	
#2 AAAC	(S1000)	
1/0 AAAC	(S1000)	

This acceptance does not relieve the manufacturer of any responsibility for the satisfactory performance of the item and its conformity to guarantees, specifications, or other provisions of contracts covering its sale. This acceptance is made with the further understanding that no changes in design or workmanship affecting the quality, strength, or electrical characteristics of the item will be made without the knowledge of the Technical Standards Committees. You are also asked to notify the Technical Standards Committees of any change in manufacturing plant location or locations.

A representative list should be kept of our borrowers purchasing these S1000 automatic splices. This information will be needed at the time you apply for full acceptance after the trial period. The selection of conditionally accepted materials and equipment is at the option of the borrower.

1400 Independence Ave, SW - Washington, DC 20250-0700
Web: http://www.rurdev.usda.gov

Committed to the future of rural communities.

"USDA is an equal opportunity provider, employer and lender"
To file a complaint of discrimination write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD).

USDA Rural Development

United States Department of Agriculture
Rural Development

July 8, 2009

Mr. Nick Polidori
Connector Products, Inc.
5 Surrey Lane
Cinnaminson, New Jersey 08077

Dear Mr. Polidori:

Your application for Acceptance of hot line clamps has been brought to the attention of Technical Standards Committee "A" (Electric).

The Committee has granted Full Acceptance of your hotline clamps. The items will appear in the List of Materials as follows:

ap-1.1
July 2009

ap - Clamp, hot line
Copper and Copperweld-copper Conductor
(Clamps with internal springs and enclosed threads)

Conductor	Conductor Size
Copper:	6 thru 2/0
Copperweld-copper:	8A thru 2A

Manufacturer	
Connector Products, Inc.	HTC 100
	HTC 100-6
	HTC 200
	HTC 200-4

1400 Independence Ave, SW • Washington, DC 20250-0700
Web: http://www.rurdev.usda.gov

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Mr. Nick Polidori 2

ap-1.2
July 2009

ap - Clamp, hot line
ACSR with armor rods

Clamps listed below have spring action and enclosed thread chambers.

Manufacturer	Tap Conductor	Conductor Size 477 & 336.4	4/0 & 3/0	2/0	1/0 & 2	4
Connector Products, Inc.	Aluminum	HTC 200 HTC 200-4 HTC 300	HTC 100 HTC 100-6 HTC 200 HTC 200-4	HTC 100 HTC 100-6 HTC 200 HTC 200-4	HTC 100 HTC 100-6	HTC 100 HTC 100-6
	Copper	HTC 200 HTC 200-4 HTC 300	HTC 100 HTC 100-6 HTC 200 HTC 200-4	HTC 100 HTC 100-6 HTC 200 HTC 200-4	HTC 100 HTC 100-6	HTC 100 HTC 100-6

This acceptance does not relieve the manufacturer of any responsibility for the satisfactory performance of the item and its conformity to guarantees, specifications, or other provisions of contracts covering its sale. This acceptance is made with the further understanding that no changes in design or workmanship affecting the quality, strength, or electrical characteristics of the item will be made without the knowledge of the Technical Standards Committees. You are also asked to notify the Technical Standards Committees of any change in manufacturing plant location or locations.

Sincerely,

Norris W. Nicholson

NORRIS W. NICHOLSON
Chair, Technical Standards
Committee "A"
Electric Staff Division
Rural Utilities Service

Connector Products Inc. "Better Products by Design"

Conductor Specifications

Aluminum Cable, Steel Reinforced Bare

Code Word	Cross Section Aluminum Cir. Mils or AWG	Copper Equivalent Based on Equal DC Resistance	Stranding Number and Diameter of strands		Diameter - Inches						Ultimate Strength Lbs.	Weight Per 1000 Ft. Pounds
					Complete Cable	Steel Core	Over Armor Rods					
							Straight	Tapered	Preformed			
			Aluminum	Steel					Alum. Alloy	Galv. Steel		
TURKEY	6	8	6x0.0661	1x0.0661	0.198	0.0661	0.434		0.440		1170	36.1
SWAN	4	6	6x0.0834	1x0.0834	.250	0.0834	0.548		0.542	0.438	1830	57.4
SWANTE	4	6	7x0.0772	1x0.1029	0.257	0.1029	0.555		0.549	0.438	2288	67.1
SPARROW	2	4	6x0.1052	1x0.1052	0.316	0.1052	0.586		0.608	0.504	2790	91.3
SPARATE	2	4	7x0.0974	1x0.1299	0.325	0.1299	0.595		0.617	0.504	3525	106.7
ROBIN	1	3	6x0.1182	1x0.1182	0.355	0.1182	0.657		0.647	0.543	3480	115.2
RAVEN	1/0	2	6x0.1327	1x0.1327	0.398	0.1327	0.744		0.732	0.606	4280	145.2
QUAIL	2/0	1	6x0.1490	1x0.1490	0.447	0.1490	0.745	0.835	0.781	0.651	5345	183.1
PIEGON	3/0	1/0	6x0.1672	1x0.1672	0.502	0.1672	0.386	0.938	0.863	0.782	6675	230.9
PENGUIN	4/0	2/0	6x0.1878	1x0.1878	0.563	0.1878	0.939	1.051	0.927	0.843	8420	291.1
WAXWING	266800	3/0	18x0.1217	1x0.1217	0.609	0.1217	0.999	1.125	0.973		7100	289.7
OWL	266800	3/0	6x0.2109	7x0.0703	0.633	0.2109		1.179	0.997	0.929	9645	343.3
PARTRIDGE	266800	3/0	26x0.1013	7x0.0788	0.642	0.2364		1.188	1.006	0.938	11250	367.3
OSTRICH	300000	188700	26x0.1074	7x0.0835	0.680	0.2505		1.258	1.088	1.004	12650	412.9
MERLIN	336400	4/0	18x0.1367	1x0.1367	0.684	0.1367	1.046	1.262	1.092		8950	336.0
LINNET	336400	4/0	26x0.1138	7x0.0885	0.721	0.2655		1.349	1.129	1.045	14050	463.0
ORIOLE	336400	4/0	30x0.1059	7x0.1059	0.741	0.3177		1.369	1.149	1.065	17040	527.1
CHICKADEE	397500	250000	18x0.1486	1x0.1486	0.743	0.1486	1.057	1.371	1.151		10400	432.0
BRANT	397500	250000	24x0.1287	7x0.0858	0.772	0.2574		1.436	1.272		14690	512.1
IBIS	397500	250000	26x0.1236	7x0.0961	0.783	0.2883		1.447	1.283		16190	547.2
LARK	397500	250000	30x0.1151	7x0.1151	0.806	0.3453		1.490	1.306		19980	622.8
PELICAN	477000	300000	18x0.1628	1x0.1628	0.814	0.1628	1.180	1.518	1.314		12300	518.0
FLICKER	477000	300000	24x0.1410	7x0.0940	0.846	0.2820		1.570	1.346		17200	514.0
HAWK	477000	300000	26x0.1355	7x0.1054	0.858	0.3162		1.602	1.358		19430	656.0
HEN	477000	300000	30x0.1261	7x0.1261	0.883	0.3783		1.649	1.383		23300	747.3
OSPREY	556500	350000	18x0.1758	1x0.1785	0.879	0.1758		1.623	1.379		13850	604.0
PARAKEET	556500	350000	24x0.1523	7x0.1015	0.914	0.3045		1.702	1.414		19850	717.0
DOVE	556500	350000	26x0.1463	7x0.1138	0.927	0.341		1.715	1.427		22400	766.0
EAGLE	556500	350000	30x0.1362	7x0.1362	0.953	0.409		1.763	1.453		27200	872.0
PEACOCK	605000	380500	24x0.1588	7x0.1059	0.953	0.318		1.763	1.453		2150	780.0
SQUAB	605000	380500	26x0.1525	7x0.1186	0.966	0.356		1.798	1.466		24100	833.0
TEAL	605000	380500	30x0.1420	19x0.0852	0.994	0.426		1.850	1.614		30000	939.0
SWIFT	636000	400000	36x0.1329	1x0.1329	0.930	0.1329		1.718	1.430		13450	644.0
KINGBIRD	636000	400000	18x0.1880	1x0.1880	0.940	0.1880		1.750	1.440		15830	691.0
ROOK	636000	400000	24x0.1628	7x0.1085	0.977	0.326		1.809	1.597		22600	819.0
GROSBEAK	636000	400000	26x0.1564	7x0.1216	0.990	0.365		1.846	1.610		25000	875.0
EGRET	636000	400000	30x0.1456	19x0.0874	1.019	0.437		1.901	1.639		31500	988.0
FLAMINGO	666600	419000	24x0.1667	7x0.1111	1.000	0.333		1.856	1.620		23700	859.0
STILT	715500	450000	24x0.1727	7x0.1151	1.036	0.345		1.918	1.656		25500	921.0
STARLING	715500	450000	26x0.1659	7x0.1290	1.051	0.387		1.959	1.671		28100	985.0
REDWING	715500	450000	30x0.1544	19x0.0926	1.081	0.463		2.013	1.701		34600	1111.0
COOT	795000	500000	36x0.1486	1x0.1486	1.040	0.1486		1.922	1.660		16540	805.0
TERN	795000	500000	45x0.1329	7x0.0886	1.063	0.266		1.971	1.683		22900	896.0
CUCKOO	795000	500000	24x0.1820	7x0.1214	1.092	0.364		2.025	1.713		27900	1024.0
CONDOR	795000	500000	54x0.1214	7x0.1214	1.093	0.364		2.025	1.713		28500	1024.0
DRAKE	795000	500000	26x0.1749	7x0.1360	1.108	0.408		2.040	1.728		31200	1094.0
MALLARD	795000	500000	30x0.1628	19x0.0977	1.140	0.489		2.128	1.760		38400	1235.0
RUDDY	9000	556000	45x0.1414	7x0.0943	1.131	0.283		2.063	1.740		25400	1015.0
CANARY	900000	556000	54x0.1291	7x0.1291	1.162	0.387		2.150	1.782		32300	1159.0
CATBIRD	954000	600000	36x0.1628	1x0.1628	1.140	0.1628		2.120	1.760		19520	966.0
RAIL	954000	600000	45x0.1456	7x0.0971	1.165	0.291		2.153	1.785		26900	1075.0
CARDINAL	954000	600000	54x0.1329	7x0.1329	1.196	0.399		1.984	1.816		34200	1229.0
TANAGER	1033500	650000	36x0.1694	1x0.1694	1.186	0.1694		1.974	1.850		21100	1046.0
ORTLAN	1033500	650000	45x0.1516	7x0.1011	1.213	0.303		2.023	1.943		28900	1165.0
CURLEW	1033500	650000	54x0.1384	7x0.1384	1.246	0.415		2.078	1.976		37100	1331.0
BLUEJAY	1113000	700000	45x0.1573	7x0.1049	1.259	0.315		2.091	1.989		30900	1255.0
FINCH	1113000	700000	54x0.1436	19x0.0862	1.293	0.431		2.149	2.023		40200	1431.0
BUNTING	1192500	750000	45x0.1628	7x0.1085	1.302	0.326		2.158	2.032		33200	1344.0
GRACKLE	1192500	750000	54x0.1486	19x0.0892	1.333	0.446		2.220	2.068		43100	1533.0
BITTERN	1272000	800000	45x0.1681	7x0.1121	1.345	0.336		2.227	2.075		35400	1434.0

CONTINUED ON BACK

10/06

Conductor Specifications

Aluminum Cable, Steel Reinforced Bare

Code Word	Cross Section Aluminum Cir. Mils or AWG	Copper Equivalent Based on Equal DC Resistance	Stranding Number and Diameter of strands		Diameter - Inches						Ultimate Strength Lbs.	Weight Per 1000 Ft. Pounds
					Complete Cable	Steel Core	Over Armor Rods					
							Straight	Tapered	Preformed			
			Aluminum	Steel					Alum. Alloy	Galv. Steel		
PHEASANT	1272000	800000	54x0.1535	19x0.0921	1.382	0.461		2.290	2.030		44800	1635.0
DIPPER	1351500	850000	45x0.1733	7x0.1151	1.385	0.345		2.152	2.116		37600	1523.0
MARTIN	1351500	850000	54x0.1582	19x0.0949	1.424	0.475		2.190	2.296		47600	1737.0
BOBOLINK	1431000	900000	45x0.1783	7x0.1189	1.427	0.357		2.215	2.299		39800	1613.0
PLOVER	1431000	900000	54x0.1628	19x0.0977	1.465	0.489					50400	1840.0
NUTHATCH	1510500	950000	45x0.1832	7x0.1211	1.4766	0.366		2.276	2.338		41600	1702.0
PARROT	1510500	950000	54x0.1675	19x0.1004	1.506	0.502		2.316	2.378		53200	1942.0
LAPWING	1590000	1000000	45x0.1878	7x0.1252	1.502	0.376		2.312	2.374		43800	1792.0
FALCON	1590000	1000000	54x0.1716	19x0.1030	1.545	0.515					56000	2044.0
CHUKAR	1780000	1119000	84x0.1456	19x0.0874	1.602	0.437		2.474	2.474		53600	2074.0
BLUEBIRD	2156000	1352000	84x0.1602	19x0.0961	1.762	0.481		*2.462			63400	2512.0
KIWI	2167000	1361000	72x0.1735	7x0.1157	1.737	0.347		*2.437	2.609		53000	2304.0

* Using 18 rod sets

The conductors listed below have a high ratio of mechanical strength to current carrying capacity. They are used largely for overhead ground wires or for special long span construction such as river crossings. Generally speaking, they are of interest where mechanical requirements are of primary importance. These conductors are in every respect standard types of ACSR.

Code Word	Cross Section Aluminum		Copper Equivalent Based on Equal DC Resistance Cop. 97% Alum. 61%	Stranding Number and Diameter of strands		Diameter - Inches					Ultimate Strength Lbs.	Weight Per 1000 Ft. Pounds
						Complete Cable	Steel Core	Over Armor Rods				
	Cir. Mils	Square Inches		Aluminum	Steel			Straight	Tapered	Preformed Alum. Alloy		
GROUSE	80000	0.0628	50310	8x0.1000	1x0.1670	0.367	0.1670	0.687		0.659	5206	149.0
PETREL	101800	0.0800	64160	12x0.0921	7x0.0921	0.461	0.2763		0.861	0.795	9860	254.1
MINORCA	110800	0.0870	69700	12x0.0961	7x0.0961	0.481	0.2883		0.893	0.815	10730	276.6
LEGHORN	134600	0.1057	84600	12x0.1059	7x0.1059	0.530	0.3177		0.990	0.864	12920	336.0
GUINEA	159000	0.1249	1000000	12x0.1151	7x0.1151	0.576	0.3453		1.078	0.940	15200	396.8
DOTTEREL	176900	0.1389	111200	12x0.1214	7x0.1214	0.607	0.3642		1.123	0.971	16440	441.5
DORKING	190800	0.1499	120000	12x0.1261	7x0.1261	0.631	0.3783		1.177	0.995	17730	476.3
COCHIN	211300	0.1660	132900	12x0.1327	7x0.1327	0.663	0.3981		1.241	1.027	19640	527.5
BRAHMA	203200	0.1596	127800	16x0.1127	19x0.0977	0.714	0.4885		1.324	1.122	27500	676.7

CPI Connector Products Inc. "Better Products by Design"

Conductor Specifications

Stranded Aluminum Conductor, Bare-Classes AA and A Hard-Drawn (EC-H19)

Code Word	Conductor Size		Copper equivalent based on equal dc resistance Cu-97% Al- 61%	Stranding		Cable dia. Inches	D.C. resistance at 20°C ohms per 1,000 ft (61%)	Ultimate Strength Pounds	Weight per 1,000 Ft. Pounds
	Circular mils or AWG	Square Inches		Class	Number and dia of wires, inches				
PEACHBELL	6	0.0206	8	A	7x0.0612	0.184	0.6606	528	24.6
ROSE	4	0.0328	6	A	7x0.0772	0.232	0.4155	826	39.2
LILY	3	0.0413	5	A	7x0.0867	0.260	0.3295	1022	49.4
IRIS	2	0.0521	4	"AA, A"	7x0.0974	0.292	0.2613	1266	62.3
PANSY	1	0.0657	3	"AA, A"	7x0.1094	0.328	0.2072	1537	78.5
POPPY	1/0	0.0829	2	"AA, A"	7x0.1228	0.368	0.1643	1865	99.1
ASTER	2/0	0.1045	1	"AA, A"	7x0.1379	0.414	0.1303	2350	124.9
PHLOX	3/0	0.1318	1/0	"AA, A"	7x0.1548	0.464	0.1033	2845	157.5
OXLIP	4/0	0.1662	2/0	"AA, A"	7x0.1739	0.522	0.08195	3590	198.6
DAISY	266800	0.2095	3/0	———	7x0.1953	0.586	0.06500	4525	250.4
LAUREL	266800	0.2095	3/0	A	19x0.1185	0.593	0.06500	4800	250.4
TULIP	336400	0.2642	4/0	"AA, A"	19x0.1331	0.666	0.05155	5940	315.8
CANNA	397500	0.3122	250000	"AA, A"	19x0.1447	0.724	0.04363	6880	372.5
COSMOS	477000	0.3746	300000	"AA, A"	19x0.1585	0.793	0.03636	8090	477.8
SYRINGA	477000	0.3746	300000	A	37x0.1135	0.759	0.03636	8600	477.8 522.4
DAHLIA	556500	0.4371	350000	——	19x0.1711	0.856	0.03116	9440	522.4
MISTLETOE	556500	0.4371	350000	"AA, A"	37x0.1226	0.858	0.03166	9830	597.0
ORCHID	636000	0.4995	400000	"AA, A"	37x0.1311	0.918	0.02727	12240	671.6
VIOLET	715000	0.5620	450000	AA	37x0.1391	0.974	0.02424	12640	671.6
NASTURTIUM	715500	0.5620	450000	A	61x0.1083	0.975	0.02424	13150	671.6
ARBUTUS	795000	0.6244	500000	AA	37x0.1466	1.026	0.02181	13770	746.3
LILAC	795000	0.6244	500000	A	61x0.1142	1.028	0.02181	14330	746.6
ANEMONE	874500	0.6868	550000	AA	37x0.1538	1.077	0.01983	14830	820.9
CROCUS	874500	0.6868	550000	A	61x0.1198	1.078	0.01983	15760	820.9
MAGNOLIA	954000	0.7493	600000	AA	37x0.1606	1.124	0.01818	16180	895.5
GOLDENROD	954000	0.7493	600000	A	61x0.1251	1.126	0.01818	16860	895.5
BLUEBELL	1033500	0.8177	650000	AA	37x0.1672	1.170	0.01678	17530	970.1
LARKSPUR	1033500	0.8177	650000	A	61x0.1302	1.172	0.01678	18260	970.1
MARIGOLD	1113000	0.8741	700000	"AA, A"	61x0.1351	1.216	0.01558	19660	1045.
HAWTHORN	1192500	0.9366	750000	"AA, A"	61x0.1398	1.258	0.01454	21000	1119.
NARCISSUS	1272000	0.999	800000	"AA, A"	61x0.1444	1.300	0.01363	22000	1193.
COLUMBINE	1351500	1.062	850000	"AA, A"	61x0.1489	1.340	0.01283	23400	1269.
CARNATION	1431000	1.124	900000	"AA, A"	61x0.1532	1.379	0.01212	24300	1343.
GLADIOLUS	1510500	1.186	950000	"AA, A"	61x0.1574	1.417	0.01148	25600	1418.
COREOPSIS	1590000	1.249	1000000	AA	61x0.1615	1.454	0.01091	27000	1493.
DOGWOOD	1590000	1.249	1000000	A	91x0.1322	1.454	0.01091	28100	1493.

Conductor Specifications

High Strength Aluminum Alloy (6201) Conductor, AAAC

Code Word	Area			Stranding		Conductor Diameter Inches	D.C. resistance at 20°C ohms per 1,000 ft.	Minimum Ultimate Strength Lbs.	Weight per 1,000 Ft. Lbs.
	CM	Square Inches	Approx. EC Equivalent AWG or CM	No.	Dia. Inch				
AKRON	"30,580"	0.02402	6	7	0.0661	0.198	0.6588	"1,095"	28.7
ALTON	"48,690"	0.03824	4	7	0.0834	0.25	0.4138	"1,744"	45.7
AMES	"77,470"	0.06084	2	7	0.1055	0.316	0.2601	"2,775"	72.7
AZUSA	"123,300"	0.09681	1/0	7	0.1327	0.398	0.1635	"4,415"	115.7
ANAHEIM	"155,400"	0.1221	2/0	7	0.149	0.447	0.1297	"5,334"	145.9
AMHERST	"195,700"	0.1537	3/0	7	0.1672	0.502	0.103	"6,717"	183.7
ALLIANCE	"246,900"	0.1939	4/0	7	0.1878	0.563	0.08161	"8,473"	231.8
BUTTE	"312,800"	0.2456	"266,800"	19	0.1283	0.642	0.06442	"10,610"	293.6
CANTON	"394,500"	0.3099	"336,400"	19	0.1441	0.721	0.05107	"12,830"	370.3
CAIRO	"465,400"	0.3655	"397,500"	19	0.1565	0.783	0.0433	"15,130"	436.9
DARIEN	"559,500"	0.4394	"477,000"	19	0.1716	0.858	0.03601	"18,190"	525.2
ALIGN	"652,400"	0.5124	"556,500"	19	0.1853	0.927	0.03089	"21,210"	612.4
FLINT	"740,800"	0.5818	"636,000"	37	0.1415	0.991	0.0272	"24,090"	695.4
GREELEY	"927,200"	0.7282	"795,000"	37	0.1583	1.108	0.02173	"30,150"	870.4

Data prepared on the basis of the ASTM Specifications for Alloy 6201 Conductor (ASTM B 398-63T, "Aluminum Alloy 6201-T81 Wire for Electrical Purposes"" and ASTM 399-63T, ""Concentric-Lay Stranded 6201-T81 Aluminum Alloy Conductors")

High Strength Aluminum Alloy (6201) Conductor, AAAC

Code Word	Size, MCM	Stranding		ACSR of Equal OD Size & Std.	Area, Square Inches	Outside Dia. Inches	Rated Strength Pounds	Resistance		Approx. EC Equiv. MCM	Weight per 1000 Feet (Lbs.)
		No.	Dia. Inch					Ohms 1000 Ft. DC @ 20°C	AC @ 50°C		
KAZOO	30.58	7	.0661	6 - 6/1	.0240	.198	915	.6466	.7151	26.39	28.7
KAKI	48.69	7	.0834	4 - 6/1	.0382	.250	"1,415"	.4061	4491	42.01	45.7
KENCH	77.47	7	.1052	2 - 6/1	.0608	.316	"2,195"	.2552	.2823	66.85	72.7
KIBE	123.3	7	.1327	1/0 - 6/1	.0968	.398	"3,405"	.1604	.1774	106.4	115.7
KAYAK	155.4	7	.1490	2/0 - 6/1	.1221	.447	"4,230"	.1272	.1408	134.1	145.9
KOPECK	195.7	7	.1672	3/0 - 6/1	.1537	.502	"4,965"	.1010	.1118	168.9	183.7
KITTLE	246.9	7	.1878	4/0 - 6/1	.1939	.563	"6,262"	.08008	.08869	213.1	231.8
RATCH	281.4	19	.1217	266.8 - 18/1	.2210	.609	"7,360"	.07027	.07793	242.8	264.2
RAMIE	312.8	19	.1283	266.8 - 26/7	.2456	.642	"8,180"	.06321	.07006	296.9	293.6
RADAR	355.1	19	.1367	336.4 - 18/1	.2789	.684	"9,290"	.05568	.06176	306.4	333.3
RADIAN	394.5	19	.1441	336.4 - 26/7	.3099	.721	"10,180"	.05012	.05562	340.4	370.3
REDE	419.6	19	.1486	397.5 - 18/1	.3295	.743	"10,830"	.04712	.05232	362.1	393.9
RAGOUT	465.4	19	.1565	397.5 - 26/7	.3655	.783	"11,840"	.04249	.04722	401.6	436.9
REX	503.6	19	.1628	477.0 - 18/1	.3955	.814	"12,100"	.03926	.04367	434.6	472.7
REMEX	559.5	19	.1716	477.0 - 26/7	.4394	.858	"13,450"	.03534	.03936	482.8	525.2
RUBLE	587.2	19	.1758	556.5 - 18/1	.4612	.879	"14,110"	.03367	.03753	506.7	551.2
RUNE	652.4	19	.1853	556.5 - 26/7	.5124	.927	"15,680"	.03031	.03384	563.0	612.4
SURAL	704.6	37	.1380	605.0 - 26/7	.5534	.966	"18,430"	.02755	.03089	615.4	661.4
SPAR	740.8	37	.1415	636.0 - 26/7	.5818	.990	"19,110"	.02620	.02940	647.0	695.4
SORA	833.6	37	.1501	715.5 - 26/7	.6547	1.051	"21,210"	.02328	.02626	728.1	782.5
SOLAR	927.2	37	.1583	795.0 - 26/7	.7282	1.108	"23,590"	.02093	.02366	809.8	870.4

CPI Connector Products Inc. "Better Products by Design"

Conductor Specifications

Bare Copper Wire

Conductor Size	Wire Diameter	Cross-Sectional Area		Weight		Hard-Drawn	
						Min. Ultimate Strength	D.C. Resistance at 20°C (68°F)
Awg	inch	circular mills	square inch	lb per M ft	lb per mile	pounds	ohms per M ft
20	.0320	1020	.000804	3.10	16.4		
19	.0359	1290	.00101	3.90	20.6		
18	.0403	1620	.00128	4.92	26.0	85.5	6.64
17	.0453	2050	.00161	6.21	32.8	108	5.26
16	.0508	2580	.00203	7.81	41.2	135	4.18
15	.0571	3260	.00256	9.87	52.1	170	3.31
14	.0641	4110	.00323	12.4	65.7	214	2.63
13	.0720	5180	.00407	15.7	82.9	268	2.08
12	.0808	6530	.00513	19.8	104	337	1.65
11	.0907	8230	.00646	24.9	131	423	1.31
10	.1019	10380	.008155	31.43	166.0	529.3	1.039
9	.1144	13090	.01028	39.61	209.2	660.9	.8241
8	.1285	16510	.01297	49.98	263.9	826.1	.6532
7	.1443	20820	.01635	63.03	332.8	1030	.5180
6	.1620	26240	.02061	79.44	419.4	1280	.4110
5	.1819	33090	.02599	100.2	528.8	1590	.3260
4	.2043	41740	.03278	126.3	667.1	1970	.2584
3	.2294	52620	.04133	159.3	841.1	2439	.2050
2	.2576	66360	.05212	200.9	1061	3002	.1625
1	.2893	83690	.06573	253.3	1338	3688	.1289
1/0	.3249	105600	.08291	319.5	1687	4518	.1022
2/0	.3648	133100	.1045	402.8	2127	5519	.08021
3/0	.4096	167800	.1318	507.8	2681	6720	.06362
4/0	.4600	211600	.1662	640.5	3385	8143	.05045

BARE COPPER CABLE CONCENTRIC STRAND

Conductor Size		Stranding Class	Total Number of Wires	Wire Diameter	Cable Diameter	Cross sectional	Minimum Breaking	Weight	
Mem	Awg			Inch	Inch	Sq. Inch	Lbs. (Hard)	Lb. per M Feet	Lb. per Mile
1.02	20	B	7	.0121	.0363	.0008023	50.04	3.154	16.65
1.62	18	B	7	.0152	.0456	.001276	78.99	5.015	26.48
2.58	16	B	7	.0192	.0576	.002028	124.7	7.974	42.10
4.11	14	B	7	.0242	.0726	.003225	197.1	12.68	66.95
6.53	12	B	7	.0305	.0915	.005129	311.1	20.16	106.5
10.38	10	B	7	.0385	.116	.008155	491.7	32.09	169.3
13.09	9	B	7	.0432	.130	.01028	618.2	40.42	213.4
16.51	8	B	7	.0486	.146	.01297	777.2	50.97	269.1
20.82	7	B	7	.0545	.164	.01635	977.1	64.28	339.4
26.24	6	B	7	.0612	.184	.02062	"1,288"	81.05	427.9
33.09	5	B	7	.0688	.206	.02600	"1,542"	102.2	539.6
41.74	4	AA	3	.1180	.254	.03278	"1,879"	127.6	673.8
41.74	4	B&A	7	.0772	.232	.03278	"1,938"	128.9	680.5
52.62	3	AA	3	.1325	.286	.04134	"2,359"	160.9	849.6
52.62	3	B&A	7	.0867	.260	.04134	"2,433"	162.5	858.0
66.36	2	AA	3	.1487	.320	.05213	"2,913"	202.9	1071
66.36	2	B&A	7	.0974	.292	.05213	"3,045"	204.9	1082
83.69	1	AA	3	.1670	.360	.06573	"3,621"	255.9	1351
83.69	1	AA	7	.1093	.328	.06573	"3,804"	258.4	1364
83.69	1	B	19	.0664	.332	.06573	"3,899"	258.4	1364
105.6	1/0	AA&A	7	.1228	.368	.08289	"4,752"	325.8	1720
105.6	1/0	-	12*	.0938	.390	.08289	"4,841"	325.8	1720
105.6	1/0	B	19	.0745	.372	.08289	"4,901"	325.8	1720
133.1	2/0	A&AA	7	.1379	.414	.1045	"5,962"	410.9	2169
133.1	2/0	-	12*	.1053	.438	.1045	"6,048"	410.9	2169
133.1	2/0	B	19	.0837	.419	.1045	"6,152"	410.9	2169
167.8	3/0	A&AA	7	.1548	.464	.1318	"7,366"	518.1	2736
167.8	3/0	-	12*	.1183	.492	.1318	"7,556"	518.1	2736
167.8	3/0	B	19	.0940	.470	.1318	"7,698"	518.1	2736
211.6	4/0	A&AA	7	.1739	.522	.1662	"9,154"	653.3	3450
211.6	4/0	-	12*	.1328	.552	.1662	"9,483"	653.3	3450
211.6	4/0	B	19	.1055	.528	.1662	"9,617"	653.3	3450
250		AA	12	.1443	.600	.1963	"11,130"	771.9	4076
250		A	19	.1147	.574	.1963	"11,360"	771.9	4076

Conductor Specifications

Physical and Electrical Characteristics of Alumoweld Wire and Strand

No. and Size of Wire	Nominal Diameter Inch	Breaking Load lbs.	Weight		Resistance Ohms per 1000 Ft. at	Cross-Section	
			Lbs per 1000 ft.	Lbs per Mile		Cir. Mils	Sq. In.
STRAND							
37 No. 5 Awg	1.27	"142,800"	2802	"14,800"	0.04247	"1,225,000"	0.9619
37 No .6 Awg	1.13	"120,200"	2222	"11,730"	0.05356	"971,300"	0.7629
37 No. 7 Awg	1.01	"100,700"	1762	9305	0.06754	"770,300"	0.605
37 No. 8 Awg	0.899	"84,200"	1398	7379	0.08516	"610,900"	0.4798
37 No. 9 Awg	0.801	"66,770"	1108	5852	0.1074	"484,400"	0.3805
37 No.10 Awg	0.713	"52,950"	879	4641	0.1354	"384,200"	0.3017
19 No. 5 Awg	0.91	"73,350"	1430	7552	0.08224	"628,900"	0.494
19 No. 6 Awg	0.81	"61,700"	1134	5990	0.1037	"498,800"	0.3917
19 No. 7 Awg	0.721	"51,730"	899.5	4750	0.1308	"395,500"	0.3107
19 No. 8 Awg	0.642	"43,240"	713.5	3767	0.1649	"313,700"	0.2464
19 No. 9 Awg	0.572	"34,290"	565.8	2987	0.2079	"248,800"	0.1954
19 No. 10 Awg	0.509	"27,190"	448.7	2369	0.2622	"197,300"	0.1549
7 No. 5 Awg	0.546	"27,030"	524.9	2772	0.2264	"231,300"	0.182
7 No. 6 Awg	0.486	"22,730"	416.3	2198	0.2803	"183,800"	0.1443
7 No. 7 Awg	0.433	"19,060"	330	1743	0.3535	"145,700"	0.1145
7 No. 8 Awg	0.385	"15,930"	261.8	1382	0.4458	"115,600"	0.09077
7 No. 9 Awg	0.343	"12,630"	207.6	1096	0.5621	"91,650"	0.07198
7 No. 10 Awg	0.306	"10,020"	164.7	869.4	0.7088	"72,680"	0.05708
7 No. 11 Awg	0.272	"7,945"	130.6	689.4	0.8938	"57,640"	0.04527
7 No. 12 Awg	0.242	"6,301"	103.6	546.8	1.127	"45,710"	0.0359
3 No. 5 Awg	0.392	"12,230"	224.5	1186	0.5177	"99,310"	0.078
3 No. 6 Awg	0.349	"10,280"	178.1	940.2	0.6528	"78,750"	0.06185
3 No. 7 Awg	0.311	"8,621"	141.2	745.6	0.8232	"62,450"	0.04905
3 No. 8 Awg	0.277	"7,206"	112	591.3	1.038	"49,530"	0.0389
3 No. 9 Awg	0.247	"5,715"	88.81	468.9	1.309	"39,280"	0.03085
3 No. 10 Awg	0.22	"4,532"	70.43	371.8	1.651	"31,150"	0.02446
SOLID WIRE							
4 AWG	0.2043	"5,081"	93.63	494.3	1.222	"41,740"	0.03278
5 AWG	0.1819	"4,290"	74.25	392	1.541	"33,100"	0.026
6 AWG	0.162	"3,608"	58.88	310.9	1.943	"26,250"	0.02062
7 AWG	0.1443	"3,025"	46.69	246.6	2.45	"20,820"	0.01635
8 AWG	0.1285	"2,529"	37.03	195.6	3.089	"16,510"	0.01297
9 AWG	0.1144	"2,005"	29.37	155.1	3.896	"13,090"	0.01028
10 AWG	0.1019	"1,590"	23.29	123	4.912	"10,380"	0.008155
11 AWG	0.09074	"1,261"	18.47	97.52	6.194	8234	0.006467
12 AWG	0.08081	"1,000"	14.65	77.33	7.811	"6,530"	0.005129

"Modulus of Elasticity: Strand, 23,000,000; Solid Wire, 23,500,000. "

"Coefficient of Linear Expansion: .000,007.2 per degree Fahrenheit"

COPPERWELD 3-WIRE STRANDED CONDUCTORS FOR SPECIAL LONG SPANS

Conductor	Diameter Inch	Breaking Strength Lbs.	Weight		Resistance Ohms per 1000 Ft. at	Cross Section
			Lbs per 1000 ft.	Lbs per Mile		
No. 6 Awg E.H.S. 30% Cond.	0.349	9754	220.3	116.3	0.4513	0.06185
No. 8 Awg E.H.S. 30% Cond.	0.277	6282	138.5	731.5	0.7176	0.0389
No. 10 Awg E.H.S. 30% Cond.	0.22	4160	87.13	460	1.141	0.02446
No. 12 Awg E.H.S. 30% Cond.	0.174	2565	54.8	289.3	1.814	0.01539

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