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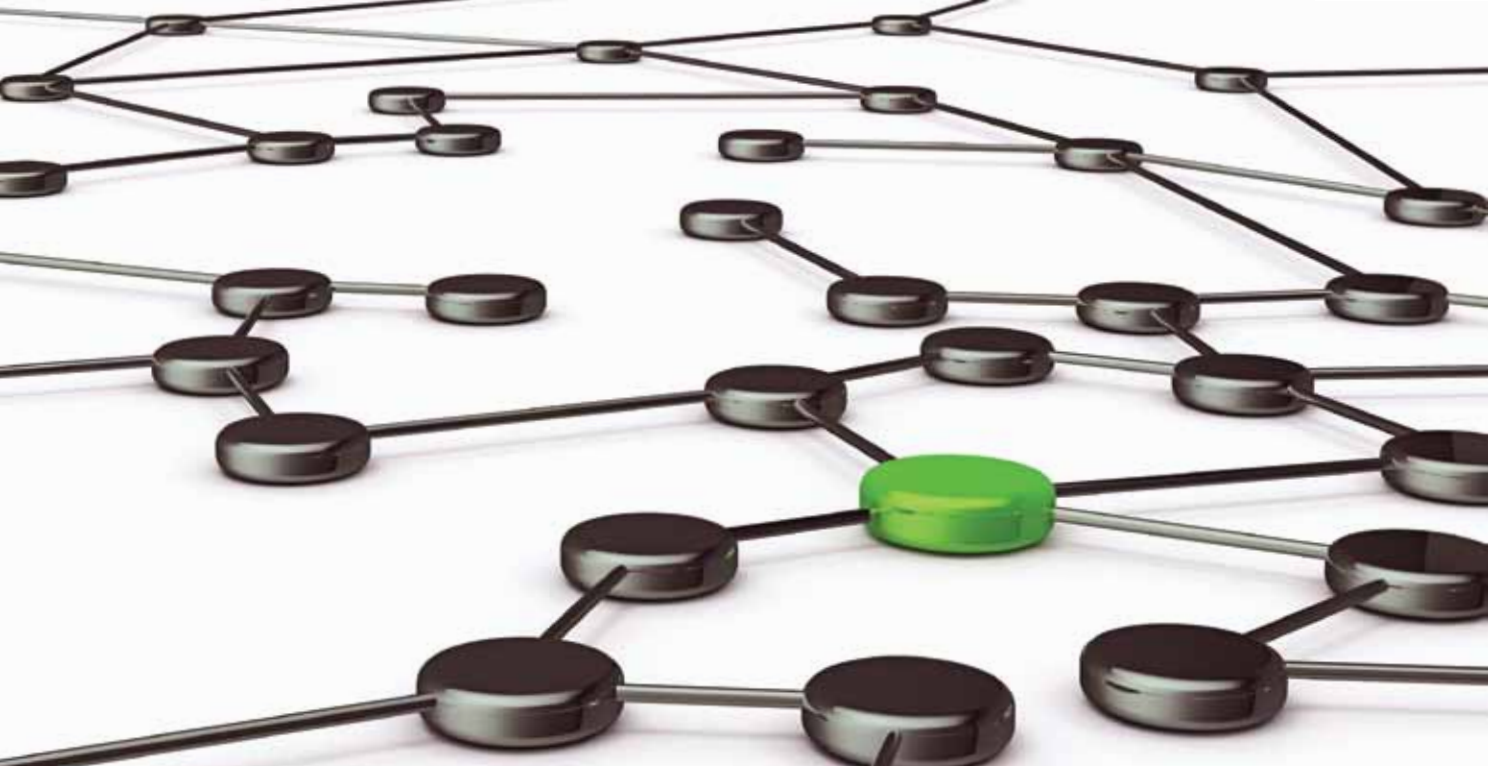


# Energy Ready Reference Guide

Generation • Distribution • Transmission

Raychem Cable Accessories, ALR Photocontrols, AMP Connectors

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# CONNECTORS & TERMINALS

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C\_ASBC



C\_ASBC\_Wrench

## Aluminum ShearBolt Splice Connectors

### #2 AWG Compact to 1000 kcmil Stranded

TE Connectivity's Aluminum ShearBolt connectors are range-taking mechanical connectors. Just six connectors will accommodate a wide range of aluminum and copper conductors from #2 AWG compact stranded to 1000 kcmil standard stranded class B. The primary application of Aluminum ShearBolt connectors is for underground splices up to 35 kV.

ShearBolt connectors are ideally suited for aluminum to aluminum, aluminum to copper and copper to copper applications making them the universal connector solution. Please refer to tests listed below.

The only tool required to install the connector is a standard ratchet wrench with the appropriate sized hexagonal sockets. The connector design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently the optimal contact force is generated to minimize connection resistance. A holding tool is recommended to avoid core bending of conductors and can be ordered from TE Connectivity (#188072-000).

TE's cordless impact wrench (#CA7469-000) can also be used to install the connector. This convenient and quick tool has been tested and qualified to install ShearBolt connectors.

The solid center stop (available on most sizes) inside the connector ensures proper conductor positioning and eliminates oil leakage when connecting oil impregnated conductors.

Two removable inserts in the connector body centralize smaller conductor sizes. For larger sizes, inserts are not required and are easily removed with a standard screwdriver.

ShearBolt connectors meet the electrical requirements (Class A) of ANSI C119.4 and exceed the mechanical requirements of a class 3 connector by a large margin of safety.

ShearBolt connectors are designed to be compatible with TE's Raychem brand cable accessories and insulation products.

#### Selection Information: dimensions shown in inches (millimeters)

Catalog Number	Conductor Range	OD Range	Length	Connector O.D.	Stop
ASBS-2-3/0	2 AWG compact stranded to 3/0 AWG standard stranded	.268-.470 (6.8-11.9)	2.5 (65)	.95 (24)	Disc
ASBS-2-350	2 AWG compact stranded to 350 kcmil standard stranded	.268-.681 (6.8-17.3)	3.9 (100)	1.22 (31)	Solid
ASBS-3/0-500	3/0 AWG compact stranded to 500 kcmil standard stranded	.423-.813 (10.7-20.6)	4.9 (125)	1.3 (34)	Disc
ASBS-3/0-500-S	3/0 AWG compact stranded to 500 kcmil standard stranded	.423-.813 (10.7-20.6)	4.9 (125)	1.3 (34)	Solid
ASBS-500-750	500 kcmil compact stranded to 750 kcmil standard stranded	.736-.998 (18.7-25.3)	6.0 (152)	1.52 (39)	Solid
ASBS-350-750	350 kcmil compact stranded to 750 kcmil standard stranded	.616-.998 (15.6-25.3)	6.7 (170)	1.67 (42.5)	Solid
ASBS-600-1000	600 kcmil compact stranded to 1000 kcmil standard stranded	.813-1.152 (20.6-29.2)	8.0 (203)	1.75 (44.4)	Solid

#### Application Information

Catalog Number	PII Number*	Socket Size	Test Reports	Conductor Combination
ASBS-2-3/0	408-8990	1/2	Note 1	Note 1
ASBS-2-350	408-8990	11/16	502-47292(I) 502-47300(I) 502-47340(I)	4/0 kcmil Cu to 350 kcmil AAC 350 kcmil AAC to 350 kcmil AAC 350 kcmil CU to 350 kcmil CU
ASBS-3/0-500	408-8990	3/4	502-47331(I) 502-47331(I)	500 kcmil AAC to 500 kcmil AAC 500 kcmil CU to 500 kcmil CU
ASBS-3/0-500-S	408-10429	3/4	502-47331(I) 502-47331(I)	500 kcmil AAC to 500 kcmil AAC 500 kcmil CU to 500 kcmil CU
ASBS-350-750	408-8990	7/8	502-47329(I)	750 kcmil AAC to 750 kcmil AAC
ASBS-500-750	408-8990	3/4	502-47288(I) 502-47294(I)	500 kcmil CU to 750 kcmil CU 750 kcmil AAC to 750 kcmil AAC
ASBS-600-1000	408-8990	7/8	502-47289(I) 502-47344(I) 502-47305(I)	750 kcmil CU to 1000 kcmil AAC 1000 kcmil CU to 1000 kcmil CU 1000 kcmil AAC to 1000 kcmil AAC

\*Installation Instructions Reference Number

Note: The part number was not tested as ANSI C119.4 allows a smaller size connector of the same design to be added without additional testing.



C\_CSBC



C\_CSBC\_Wrench

## Copper ShearBolt Splice Connectors #2 AWG Compact to 1000 kcmil Stranded

TE Connectivity's Copper ShearBolt connectors are range-taking, mechanical connectors that will accommodate a wide range of copper cables from #2 AWG compact stranded to 1000 kcmil compact stranded. The primary application is for underground splices up to 35 kV.

The tool required to install the connector is a standard ratchet wrench with hexagonal sockets. The connector design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently to the end of each conductor. A holding tool is recommended to avoid core bending of conductors and can be ordered separately (#188072-000). TE's cordless impact wrench (#CA7469-000) can also be used to install the connector. This tool offers convenience and speed and has been tested and qualified to install ShearBolt connectors. It eliminates the need for a holding tool. Please refer to accessory and tool section for ordering information.

The connector is supplied with two copper inserts assembled into the connector body to center small conductor sizes. For larger sizes, inserts are not required and are easily removed with a standard screwdriver. Please see the installation table for details. An oxide-inhibiting joint compound is factory-applied in the barrel of the connector to provide low initial contact resistance, seal out air and moisture, prevent oxidation/corrosion, and maintain a reliable connection for the life of the installation.

The connectors have been electrically tested to the class A requirements of ANSI C119.4 and mechanically rated at a pull out force of 1670 lbs for the #2 AWG to 250 kcmil version; 2300 lbs for the 2/0 AWG to 500 kcmil version; 3000 lbs for the 300 kcmil to 750 kcmil version; and 3800 lbs for the 500 kcmil to 1000 kcmil version. Engineering Test Reports are available upon request

Copper ShearBolt connectors have an impermeable oil block for connecting paper-insulated cables.

### Selection Information: dimensions shown in inches (millimeters)

Catalog Number	Conductor Cable Range	Conductor OD Range	Length	Connector O.D.	Stop
CSBS-2-250	#2 AWG compact to 250 kcmil stranded	.268-.575 (6.81-14.61)	3.2 (81)	1.05 (26.7)	Solid
CSBS-2/0C-500C	2/0 compact to 500 kcmil compact	.376-.736 (9.5-18.7)	4 (101)	1.2 (30.5)	Solid
CSBS-2/0-500-CPR	2/0 compact to 500 kcmil compressed	.376-.79 (9.5-20)	4 (101)	1.3 (33)	Solid
CSBS-300C-750C	300 kcmil compact to 750 kcmil compact	.570-.945 (14.5-24.0)	5 (127)	1.45 (36.8)	Solid
CSBS-300-750	300 kcmil compact to 750 kcmil standard	.570-.99 (14.5-25.4)	5 (127)	1.5 (38.1)	Solid
CSBS-500-1000	500 kcmil compact to 1000 kcmil stranded	.736 to 1.152 (1.87-2.93)	7 (18)	1.75 (44.4)	Solid

### Installation

Copper ShearBolt connectors use four (six for the CSBS 500-1000) bronze alloy shear head bolts, two (or three) on each side of the center stop. A torque wrench is not required. The only tool required is a standard ratchet wrench with a hexagonal socket.

\* Refer to the following installation table.

Catalog Number	PII Number*	Socket Size	Test Reports	Application Guide
CSBS-2-250	408-10327	1/2 (13)	502-47407	Remove inserts for cable sizes equal to or greater than 4/0 AWG compressed
CSBS-2/0C-500C	408-8894	11/16 (17)	502-47265	Remove inserts for cable sizes equal to or greater than 300 kcmil compact.
CSBS-2/0-500-CPR	408-10327	11/16 (17)	502-47265	Remove inserts for cable sizes equal to or greater than 350 kcmil compressed.
CSBS-300C-750C	408-8863	3/4 (19)	502-47257 502-47260	Remove inserts for cable sizes equal to or greater than 500 kcmil compact.
CSBS-300-750	408-10327	3/4 (19)	502-47260	Remove inserts for cable sizes equal to or greater than 600 kcmil compressed.
CSBS-500-1000	408-10327	3/4 (19)	502-47386	Remove inserts for cable sizes equal to or greater than 750 kcmil stranded

\*Installation Instructions Reference Number

Please contact your TE Connectivity representative for conductor sizes or types not listed in this catalog.



C\_ASBT



C\_ASBT\_Wrench

## Aluminum ShearBolt Terminal Connectors #2 AWG Compact to 1000 kcmil Stranded

TE Connectivity's Aluminum ShearBolt Terminals (ASBT) are range-taking mechanical connectors that will accommodate a conductor range from #2 compact stranded to 1000 kcmil stranded, Class B. The primary application of the ASBT is for power cable terminations, both underground and above ground at voltages up to 35 kV. ASBT is ideally suited for making aluminum or copper cable connections to flat bar or equipment pads equipped with 2-hole NEMA spacing.

To extend the range of each connector, an aluminum insert is assembled into the connector body, which centers the smaller conductor sizes in the barrel of the connector. For larger sizes the insert is not required and is easily removed with a standard screwdriver. An oxide-inhibiting joint compound is factory applied in the connector barrel to maintain a reliable connection for the life of the installation.

The connector design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently the optimal contact force is generated to minimize connection resistance. The primary tool required to install the connector is a standard ratchet wrench with the appropriate hexagonal sockets. The TE Connectivity cordless impact wrench (#CA7469-000) can also be used to install the connector.

The connectors have been electrically tested to the class A requirements of ANSI C119.4 and exceed the mechanical requirements of a class 3 connector by a large margin of safety. The existing Aluminum ShearBolt Splice (ASBS) connector Engineering Test Reports are applicable since the barrel end of the ASBT exactly replicates the design criteria of the ASBS.

### Selection Information: dimensions shown in inches (millimeters)

Catalog Number	Length	OD	Socket Size	Conductor Range	Conductor OD Range	Remove Insert for Conductor Size Greater Than
ASBT-2-350 (2-Bolt)	5.9 (1.49)	1.22 (31)	11/16 (17)	2 AWG Compact to 350 kcmil Stranded	.268-.681 (6.8-17.3)	4/0 AWG Stranded (.528 (13.4) Conductor Dia.)
ASBT-350-750 (3-Bolt)	7.4 (1.88)	1.67 (42.5)	7/8 (22)	350 kcmil Compact to 750 kcmil Stranded	.616-.998 (15.7-25.3)	600 kcmil Compact (.813 (20.6) Conductor Dia.)
ASBT-600-1000 (3-Bolt)	7.7 (1.96)	1.75 (44.4)	7/8 (22)	600 kcmil Compact to 1000 kcmil Stranded	.813-1.152 (20.6-29.2)	750 kcmil Stranded (.998 (25.3) Conductor Dia.)

### Engineering Test Information

Catalog Number	TE Part Number	RPN Part Number	Test Number	Conductor
ASBT-2-350	1099368-1	CM9694-000	N/A	See below conductors for ASBS-2-350 test reports
ASBT-350-750	1099369-1	CM9695-000	N/A	See below conductor for ASBS-350-750 test report.
ASBT-600-1000	1099585-1	CM9696-000	502-47363, Rev. O 502-47370	1000 kcmil AAC 1000 kcmil CU

Please contact your TE Connectivity representative for conductor sizes or types not listed in this datasheet.

### Engineering Test Information:

Catalog Number	Installation Instruction Number	Socket Size	Test Number	Conductor Combination
ASBS-2-350	408-8990	11/16"	502-47292(I) 502-47300(I) 502-47340(I)	4/0 kcmil Cu to 350 kcmil AAC 350 kcmil AAC to 350 kcmil AAC 350 kcmil Cu to 350 kcmil CU
ASBS-350-750	408-8990	7/8"	502-47329(I)	750 kcmil AAC to 750 kcmil AAC
ASBS-600-1000	408-8990	7/8"	502-47289(I) 502-47344(I) 502-47305(I)	750 kcmil Cu to 1000 kcmil AAC 1000 kcmil Cu to 1000 kcmil CU 1000 kcmil AAC to 1000 kcmil AAC



C\_CUCT

## Copper Compression Terminals

- Uses industry-standard tooling for simple installation
- Industry-standard color coding system simplifies die selection
- Chamfered connector end allows cable to be inserted easily
- One-piece, seamless construction from electrolytic tough pitch (ETP) copper for superior electrical performance and mechanical operation
- Closed barrel transition design for protection from moisture and contaminants
- Tin-plated for corrosion resistance and durability, and tempered for easy crimping

Copper compression terminals are ideally suited for secondary power distribution in buildings, power plants, electrical equipment, and industrial applications. Connectors can be used on applications up to 35 kV, and meet the requirements of UL486A and CSA C22.2 No. 65-95 when applied with approved die sets. (See Instruction Sheet #408-8869 for approved listing of die sets).

Copper compression terminals are available to accommodate a range of cable sizes from 6 AWG through 1,000 MCM and are designed for terminating concentric, compressed, and compact conductors. These terminals are offered in one-hole terminals from 6 AWG through 1,000 MCM with either a standard or long barrel. A two-hole NEMA terminal with a long barrel is also available for 4 AWG through 1,000 MCM.

Compression crimping forms the terminal barrel and conductor into a strong, almost homogeneous unit, producing excellent conductivity, low temperature rise, and outstanding resistance to oxidation and corrosion.

### Physical and Electrical Properties

Material:	ETP copper alloy C11000
Plating:	Electro tin plate
Heat treating:	Soft tempered
Voltage Rating:	For applications up to 35 kV consult shielded cable manufacturers stress relief instructions.

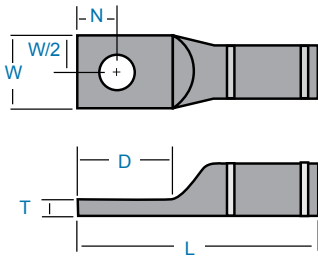
Agency approvals (when crimped with the approved die sets): Listed by Underwriters Laboratories, Inc. File No. E13288, Compression terminal connectors comply with the requirements of UL486A and CSA C.22.2 No. 65-93.



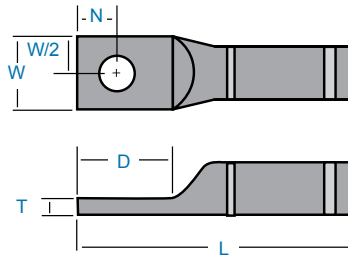


# Compression Connectors

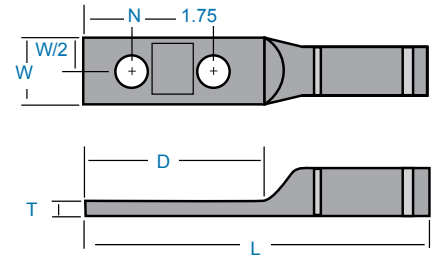
One Hole, Short Barrel



One Hole, Long Barrel



Two-Hole NEMA, Long Barrel



**Selection Information: dimensions shown in inches**

Catalog Number	Conductor	Stud Size	Dimensions					Color Code
			L	W	T	D	N	
<b>One Hole, Short Barrel</b>								
1099898-1	6 STR.	1/4	1.5	0.45	0.08	0.56	0.27	blue
1099898-2	4 STR.	1/4	1.5	0.50	0.09	0.56	0.27	gray
1099898-3	3 STR.	5/16	1.6	0.57	0.09	0.70	0.34	white
1099898-4	2 STR.	5/16	1.6	0.61	0.11	0.70	0.34	brown
1099898-5	1 STR.	1/4	1.6	0.68	0.10	0.56	0.27	green
1099898-6	1/0 STR.	5/16	1.7	0.74	0.12	0.70	0.34	pink
1099898-7	1/0 STR.	1/2	2.1	0.88	0.09	1.08	0.53	pink
1099898-8	2/0 STR.	3/8	1.9	0.83	0.12	0.83	0.41	black
1099898-9	3/0 STR.	1/2	2.2	0.91	0.13	1.08	0.53	orange
1-1099898-0	4/0 STR.	1/2	2.2	1.02	0.14	1.08	0.53	purple
1-1099898-1	250 MCM	1/2	2.4	1.11	0.16	1.08	0.53	yellow
1-1099898-2	350 MCM	1/2	2.5	1.27	0.18	1.08	0.53	red
1-1099898-3	500 MCM	1/2	3.2	1.54	0.23	1.30	0.65	brown
1-1099898-4	750 MCM	5/8	4.0	1.88	0.27	1.94	0.88	black
1-1099898-5	1000 MCM	5/8	4.9	2.16	0.32	2.12	0.94	white
<b>One Hole, Long Barrel</b>								
1099899-1	6 STR.	1/4	1.9	0.45	0.08	0.56	0.34	blue
1099899-2	4 STR.	1/4	1.9	0.50	0.09	0.56	0.38	gray
1099899-3	3 STR.	5/16	2.3	0.57	0.09	0.70	0.38	white
1099899-4	2 STR.	5/16	2.3	0.60	0.11	0.75	0.38	brown
1099899-5	1 STR.	5/16	2.4	0.68	0.10	0.75	0.27	green
1099899-6	1/0 STR.	5/16	2.4	0.74	0.12	0.75	0.27	pink
1099899-7	1/0 STR.	1/2	2.7	0.75	0.11	1.08	0.53	pink
1099899-8	2/0 STR.	3/8	2.7	0.82	0.12	0.88	0.44	black
1099899-9	3/0 STR.	1/2	2.9	0.91	0.13	1.08	0.53	orange
1-1099899-0	4/0 STR.	1/2	3.0	1.00	0.14	1.08	0.53	purple
1-1099899-1	250 MCM	1/2	3.2	1.09	0.16	1.12	0.56	yellow
1-1099899-2	300 MCM	1/2	3.6	1.19	0.16	1.12	0.56	white
1-1099899-3	350 MCM	1/2	3.7	1.28	0.18	1.12	0.56	red
1-1099899-4	400 MCM	5/8	4.2	1.38	0.19	1.50	0.75	blue
1-1099899-5	500 MCM	5/8	4.4	1.52	0.23	1.50	0.75	brown
1-1099899-6	500 MCM	1/2	4.2	1.54	0.23	1.30	0.65	brown
1-1099899-7	600 MCM	5/8	5.2	1.69	0.27	1.75	0.88	green
1-1099899-8	750 MCM	5/8	5.4	1.89	0.27	1.94	0.88	black
1-1099899-9	1000 MCM	5/8	6.0	2.17	0.32	2.12	0.94	white
<b>Two-Hole NEMA, Long Barrel</b>								
1099939-1	4 STR.	1/2	4.4	0.83	0.11	3.00	0.62	gray
1099939-2	3 STR.	1/2	4.4	0.83	0.11	3.00	0.62	white
1099939-3	2 STR.	1/2	4.5	0.82	0.11	3.00	0.62	brown
1099939-4	1 STR.	1/2	4.7	0.80	0.09	3.00	0.62	green
1099939-5	1/0 STR.	1/2	4.7	0.75	0.12	3.00	0.62	pink
1099939-6	2/0 STR.	1/2	4.8	0.82	0.12	3.00	0.62	black
1099939-7	3/0 STR.	1/2	4.8	0.90	0.12	3.00	0.62	orange
1099939-8	4/0 STR.	1/2	5.0	1.00	0.14	3.00	0.62	purple
1099939-9	250 MCM	1/2	5.0	1.09	0.16	3.00	0.62	yellow
1-1099939-0	300 MCM	1/2	5.4	1.18	0.16	3.00	0.62	white
1-1099939-1	350 MCM	1/2	5.4	1.27	0.18	3.00	0.62	red
1-1099939-2	500 MCM	1/2	5.7	1.53	0.23	3.00	0.62	brown
1-1099939-3	600 MCM	1/2	6.2	1.71	0.27	3.00	0.62	green
1-1099939-4	750 MCM	1/2	6.5	1.89	0.27	3.00	0.62	black
1-1099939-5	1000 MCM	1/2	6.8	2.16	0.33	3.00	0.62	white

**Additional Information:**

PII Number 408-8869



C\_CUCS

## Copper Compression Splices

- Uses industry-standard tooling for simple installation
- Industry-standard color coding system simplifies die selection
- Chamfered connector end allows cable to be inserted easily
- One-piece, seamless construction from electrolytic tough pitch (ETP) copper for superior electrical performance and mechanical operation
- Tin-plated for corrosion resistance and durability, and tempered for easy crimping

Copper compression splices are ideally suited for secondary power distribution in buildings, power plants, electrical equipment, and industrial applications. Connectors can be used on applications up to 35 kV, and meet the requirements of UL486A and CSA C22.2 No. 65-95 when applied with approved die sets. (See Instruction Sheet #408-8969 for approved listing of die sets).

Copper compression splices are available to accommodate a range of cable sizes from 6 AWG through 1,000 MCM and are designed for splicing concentric, compressed and compact conductors. These splices are offered from 6 AWG through 1,000 MCM with either a standard or long barrel.

Compression crimping forms the splice and conductor into a strong, almost homogeneous unit, producing excellent conductivity, low temperature rise, and outstanding resistance to oxidation and corrosion.

### Physical and Electrical Properties

Material: ETP copper alloy C11000  
 Plating: Electro tin plate  
 Heat treating: Soft tempered  
 Voltage rating: For applications up to 35 kV  
 Consult shielded cable manufacturers' stress relief instructions.

Agency approvals (when crimped with the approved die sets): Listed by Underwriters Laboratories, Inc. File No. E13288, Compression splice connectors comply with the requirements of UL486A and CSA C.22.2 No. 65-93.

### Selection Information: dimensions shown in inches (millimeters)

Catalog Number	Conductor	Length		Outside Diameter	Color Code
		L	L/2	D	

#### Standard Barrel Splice

1443402-1	#6 STR	1.75	0.83	0.292	Blue
1443402-2	#4 STR	2.00	0.96	0.340	Gray
1443402-3	#3 STR	2.09	1.00	0.377	White
1443402-4	#2 STR	2.09	1.00	0.418	Brown
1443402-5	#1 STR	2.09	1.00	0.462	Green
1443402-6	1/0 STR	2.09	1.00	0.515	Pink
1443402-7	2/0 STR	2.18	1.05	0.583	Black
1443402-8	3/0 STR	2.32	1.11	0.618	Orange
1443402-9	4/0 STR	2.32	1.12	0.691	Purple
1-1443402-0	250 MCM	2.50	1.19	0.753	Yellow
1-1443402-1	300 MCM	2.50	1.19	0.815	White
1-1443402-2	350 MCM	2.62	1.25	0.844	Red
1-1443402-3	400 MCM	2.75	1.31	0.953	Blue
1-1443402-4	500 MCM	3.15	1.50	1.064	Brown
1-1443402-5	600 MCM	3.25	1.55	1.185	Green
1-1443402-6	750 MCM	3.75	1.80	1.302	Black
1-1443402-7	1000 MCM	4.26	2.06	1.504	White

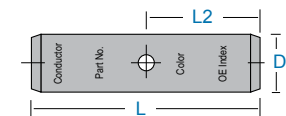
#### Long Barrel Splice

1443403-1	#6 STR	2.41	1.16	0.292	Blue
1443403-2	#4 STR	2.41	1.16	0.340	Gray
1443403-3	#3 STR	2.53	1.22	0.377	White
1443403-4	#2 STR	2.65	1.28	0.418	Brown
1443403-5	#1 STR	2.91	1.41	0.462	Green
1443403-6	1/0 STR	2.91	1.41	0.515	Pink
1443403-7	2/0 STR	3.15	1.53	0.583	Black
1443403-8	3/0 STR	3.15	1.53	0.618	Orange
1443403-9	4/0 STR	3.39	1.63	0.691	Purple
1-1443403-0	250 MCM	3.39	1.63	0.753	Yellow
1-1443403-1	300 MCM	4.13	2.00	0.815	White
1-1443403-2	350 MCM	4.13	2.00	0.844	Red
1-1443403-3	400 MCM	4.38	2.13	0.953	Blue
1-1443403-4	500 MCM	4.62	2.23	1.064	Brown
1-1443403-5	600 MCM	5.50	2.67	1.185	Green
1-1443403-6	750 MCM	5.88	2.86	1.302	Black
1-1443403-7	1000 MCM	6.12	2.96	1.504	White

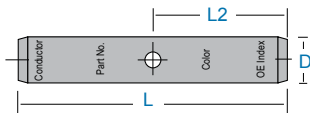
### Additional Information:

PII Number 408-8969

Standard Barrel Splice



Long Barrel Splice





C\_IPC

## Insulation Piercing Connectors

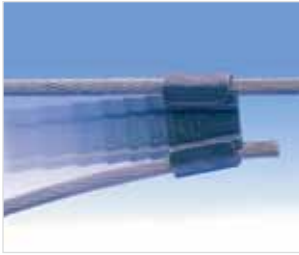
Insulation Piercing Connectors (IPCs) provide electrical connection for aluminum and copper stranded conductors without stripping and removing insulation from the conductors. During installation the IPC establishes electrical contact, protects, and seals the contact interface, and electrically insulates the connection, eliminating the need for weather-proofing and re-insulating.

### Features

- Wide conductor range, bare and insulated cables
- Suitable for aluminum and copper conductors
- Tin-plated copper alloy contacts pierce insulation sheath
- Single bolt application with ring washers provide residual contact force
- Torque-control nut for precise pressure on conductor and insulation
- Operating temperature from -40°C to +55°C
- Quick, reliable, and safe connections on energized conductors (not under load)
- Contact TE Connectivity for sizes not listed
- Meets ANSI C119.5 requirements
- Test reports available upon request.

### Selection Information: dimensions shown in inches (millimeters)

Catalog Number	Main Al/Cu		Tap Al/Cu		Dimensions		Std. Pack
	Min. AWG	Max. AWG	Min. AWG	Max. AWG	Shear Head	Weight (g)	
SIML-1727742-1 (P3X-4/0)	4 (25)	4/0 Al-2/0 Cu (95-70)	4 (25)	4/0 Al-2/0 Cu (95-70)	9/16 Install 3/4 Remove	202	20
SIML-1-708052-1 (KZEP-4/0)	6 (16)	4/0 (95)	14 (1.5)	10 (6)	10 mm Install 13 mm Remove	54	50



C\_wedge

## Wedge Pressure Technology

The key to higher efficiency and more reliable power connections

TE Connectivity's AMP utility connectors are designed around an engineering principle that TE calls "Wedge Pressure Technology". Field proven for more than 40 years, Wedge Pressure Technology has formed the basis for a complete family of connectors that outperforms other connectors types, resulting in "lowest life cycle cost" for our customers.

Developed to overcome the physical and electrical limitations of traditional compression or bolted connectors. Its design addresses four key areas affecting connectors performance by:

- Maximizing contact between the connector and conductor surfaces
- Overcoming the problems associated with oxidation of metallic surfaces
- Maintaining a constant force within the connection for the life of the connector, while compensating for thermal expansion or "creep"
- Providing a simple, fool proof method for connector installation



C\_ampactAtap

## AMPACT Aluminum Tap System

The proven AMPACT tap "C-spring" and wedge design provides a stored energy system that prevents connector degradation and achieves significantly lower resistance than any competitive product over the "in service" life of the connector. As thermal cycling causes the conductors to expand and contract, the AMPACT tap spring member flexes and maintains constant contact pressure.

- Installing taps takes a fraction of the time needed for conventional crimp-type connectors
- A locking tab prevents wedge from loosening once it has been driven into position. Every connection may be visually inspected by checking wedge movement and locking tab.
- Taps may be used to connect multiple conductor combinations
- No damage to the conductors when installing or removing tap
- Lightweight, power-actuated tools require minimum operator effort
- "C" and wedge are factory coated with an inhibitor containing abrasive particles to help clean the contact surfaces during installation
- Individual tap packages are imprinted with applicable conductor combinations. Packages and labels are color coded to easily match taps with proper tool and cartridge combination

The "C" and wedge are made of aluminum alloys. They are used to connect solid and stranded aluminum, aluminum alloy and stranded aluminum composite conductors including AAC, AAAC, ACSR, ACAR, AW, ACSR/AW, and ACSS. They may also be used in non-corrosive environments to connect copper conductors.



Listed File No. E13288

RUS: ANSI C119.4  
Class AA - Electrical  
Class 1 - Mechanical

Conductor Standard Sizes	Size Tap Conductor Applicable
1192.5 kcmil	1192.5 thru 6
1033.5	1033.5 thru 6
795	795 thru 6
556.5	556.5 thru 6
477	477 thru 6
397.5	397.5 thru 6
350	350 thru 6
336.4	336.4 thru 6
266.8	266.8 thru 6
4/0 AWG	4/0 thru 6
3/0	3/0 thru 6
2/0	2/0 thru 6
1/0	1/0 thru 14
2	2 thru 14
4	4 thru 14
6	6 thru 14
8	8 thru 14

AMPACT Aluminum Tap System Selection Guide

Catalog Number	Wire Combinations
<b>Type II Street Light Taps (White Cartridge P/N 69338-5 separately)</b>	
83653-1	1/0-10-12-14
83653-2	2-10-12-14
83653-5	4-10-12-14
83653-3	6-10-12-14
83653-4	8-10-12-14
<b>Type II Taps (White Cartridge P/N 69338-5 separately)</b>	
602283	1/0-2
602283-1	2-2; 1/0-4
602283-2	2-4; 1/0-6
602283-3	4-4; 2-6
602283-4	6-6; 4-6
602283-5	8-8
602283-6	1/0-8
602283-7	2-8
602283-8	6-8; 4-8
<b>Medium Taps (Blue Cartridge P/N 69338-1 separately)</b>	
600403	1/0-1/0; 2/0-2; 1/0-2
600411	2/0-2/0; 3/0-1/0; 4/0-2
600446	3/0-6; 2/0-6
600447	2/0-4; 3/0-4
600448	2/0-1/0; 3/0-2
600455	4/0-4
600456	4/0-4
600458	3/0-2/0; 4/0-1/0
600459	3/0-3/0; 4/0-2/0
600465	4/0-3/0
600466	4/0-4/0
<b>266.8 kcmil Taps (Blue Cartridge P/N 69338-1 separately)</b>	
602046-1	266.86
602046-2	266.8-4
602046-3	266.8-2
602046-4	266.8-1/0
602046-5	266.8-2/0
602046-6	266.8-3/0
602046-7	266.8-4/0
602046-9	266.8-266.8
<b>350 kcmil Taps (Blue Cartridge P/N 69338-1 separately)</b>	
602380	350-6
602380-1	350-4
602380-2	350-2
602380-3	350-1/0
602380-4	350-2/0
602380-5	350-3/0
602380-6	350-4/0
602380-7	350-350
<b>336.4-477-556.5 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)</b>	
602014	336.4-6
602013	336.4-4
602000	336.4-2
602001	336.4-1/0
602002	336.4-2/0
602003	336.4-3/0
602004	336.4-4/0
602006	336.4-266.8
602007	336.4-336.4
602031-8	477.0-2, 3
602031-9	477.0-4, 5
1-602031-0	477.0-6
1-602031-2	556.5-477.0; 556.5
1-602031-3	477.0-477.0; 556.5-336.4
1-602031-4	477.0-336.4; 556.5-266.8
1-602031-5	477.0-266.8; 556.5-3/0; 4/0
1-602031-6	477.0-4/0; 556.5-2/0
1-602031-7	477.0-3/0; 556.5-1/0
1-602031-8	477.0-2/0; 556.5-1
1-602031-9	477.0-1/0; 556.5-2
2-602031-0	556.5-2; 3
2-602031-1	556.5-4; 5
2-602031-2	556.5-6

Tap Catalog Number	Wire Combinations
<b>795 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)</b>	
602121	795-795
602121-1	795-715
602121-2	795-636
602121-3	795-556.5
602121-4	795-477
602121-5	795-397.5
602121-6	795-336.4
602121-7	795-266.8
602121-8	795-4/0
602121-9	795-3/0
1-602121-0	795-2/0
1-602121-1	795-1/0
1-602121-2	795-2
1-602121-3	795-4
1-602121-4	795-6
<b>1033.5 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)</b>	
602180	1033.5-1033.5
602180-1	1033.5-954.0
602180-2	1033.5-795.0
602180-3	1033.5-715.5
602180-4	1033.5-636.0
602180-5	1033.5-556.5
602180-6	1033.5-477.0
602180-7	1033.5-397.5
602180-8	1033.5-336.4
602180-9	1033.5-266.8
1-602180-0	1033.5-4/0
1-602180-1	1033.5-3/0
1-602180-2	1033.5-2/0
1-602180-3	1033.5-1/0
1-602180-4	1033.5-2
1-602180-5	1033.5-4
1-602180-6	1033.5-6
<b>1192.5 kcmil Taps (Yellow Cartridge P/N 69338-4 separately)</b>	
602300	1192.5-1192.5
602300-1	1192.5-1033.5
602300-2	1192.5-954.0
602300-3	1192.5-795.0
602300-4	1192.5-715.5
602300-5	1192.5-636.0
602300-6	1192.5-556.5
602300-7	1192.5-477.0
602300-8	1192.5-397.5
602300-9	1192.5-336.4
1-602300-0	1192.5-266.8
1-602300-1	1192.5-4/0
1-602300-2	1192.5-3/0
1-602300-3	1192.5-2/0
1-602300-4	1192.5-1/0
1-602300-5	1192.5-2
1-602300-6	1192.5-4
1-602300-7	1192.5-6

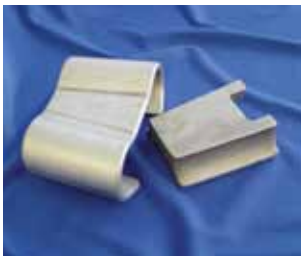
Note: For specific wire sizes refer to the AMPACT Tap Selection Guide.

**AMPACT Aluminum Tap System Diameter Limits Selection Guide**  
 (Dimensions shown in inches (millimeters))

Catalog Number	Sum of Diameters		(Large Groove ) Through Wire Diameter		(Small Groove) Tap Wire Diameter	
	Max.	Min.	Max.	Min.	Max.	Min.
<b>Type II Taps (White Coded)</b>						
602283	.724 (18.39)	.583 (14.81)	.398 (10.11)	.257 (6.53)	.398 (10.11)	.257 (6.53)
602283-1	.656 (16.66)	.515 (13.08)	.398 (10.11)	.257 (6.53)	.330 (8.38)	.204 (5.18)
602283-2	.602 (15.29)	.464 (11.79)	.398 (10.11)	.257 (6.53)	.258 (6.55)	.162 (4.11)
602283-3	.530 (13.46)	.410 (10.41)	.330 (8.38)	.204 (5.18)	.258 (6.55)	.162 (4.11)
602283-4	.456 (11.58)	.331 (8.41)	.258 (6.55)	.162 (4.11)	.230 (5.84)	.162 (4.11)
602283-5	.324 (8.23)	.256 (6.50)	.162 (4.11)	.128 (3.25)	.162 (4.11)	.128 (3.25)
602283-6	.560 (14.22)	.452 (11.48)	.398 (10.11)	.257 (6.53)	.162 (4.11)	.128 (3.25)
602283-7	.488 (12.40)	.387 (9.83)	.398 (10.11)	.257 (6.53)	.162 (4.11)	.128 (3.25)
602283-8	.416 (10.57)	.297 (7.54)	.258 (6.55)	.162 (4.11)	.162 (4.11)	.128 (3.25)
<b>Medium Wire Range Taps (Blue Coded)</b>						
600403	.796 (20.22)	.621 (15.77)	.500 (12.70)	.324 (8.23)	.464 (11.79)	.257 (6.53)
600411	.901 (22.89)	.736 (18.69)	.572 (14.53)	.364 (9.25)	.464 (11.79)	.257 (6.53)
600446	.707 (17.96)	.526 (13.36)	.572 (14.53)	.364 (9.25)	.204 (5.18)	.162 (4.11)
600447	.761 (19.33)	.570 (14.48)	.572 (14.53)	.364 (9.25)	.258 (6.55)	.204 (5.18)
600448	.846 (21.49)	.690 (17.53)	.572 (14.53)	.364 (9.25)	.398 (10.11)	.257 (6.53)
600455	.769 (19.53)	.622 (15.80)	.572 (14.53)	.364 (9.25)	.204 (5.18)	.162 (4.11)
600456	.823 (20.90)	.664 (16.87)	.572 (14.53)	.364 (9.25)	.258 (6.55)	.204 (5.18)
600458	.963 (24.46)	.804 (20.42)	.572 (14.53)	.364 (9.25)	.464 (11.79)	.257 (6.53)
600459	1.013 (25.73)	.858 (21.79)	.572 (14.53)	.364 (9.25)	.572 (14.53)	.364 (9.25)
600465	1.068 (27.13)	.938 (23.83)	.572 (14.53)	.364 (9.25)	.572 (14.53)	.364 (9.25)
600466	1.130 (28.70)	.956 (24.28)	.572 (14.53)	.364 (9.25)	.572 (14.53)	.364 (9.25)
<b>226.8 kcmil Range Taps (Blue Coded)</b>						
602046-1	.846 (21.49)	.699 (17.75)	.650 (16.51)	.525 (13.34)	.204 (5.18)	.162 (4.11)
602046-2	.900 (22.86)	.755 (19.18)	.650 (16.51)	.525 (13.34)	.258 (6.55)	.204 (5.18)
602046-3	.972 (24.69)	.818 (20.78)	.650 (16.51)	.525 (13.34)	.330 (8.38)	.257 (6.53)
602046-4	1.052 (26.72)	.897 (22.78)	.650 (16.51)	.525 (13.34)	.500 (12.70)	.324 (8.23)
602046-5	1.104 (28.04)	.963 (24.46)	.650 (16.51)	.525 (13.34)	.562 (14.27)	.364 (9.25)
602046-6	1.159 (29.44)	1.015 (25.78)	.650 (16.51)	.525 (13.34)	.562 (14.27)	.409 (10.39)
602046-7	1.217 (30.91)	1.080 (27.43)	.650 (16.51)	.525 (13.34)	.575 (14.61)	.460 (11.68)
602046-9	1.284 (32.61)	1.149 (29.18)	.650 (16.51)	.525 (13.34)	.650 (16.51)	.525 (13.34)
<b>350 kcmil Range Taps (Blue Coded)</b>						
602380	.885 (22.48)	.738 (18.75)	.684 (17.37)	.600 (15.24)	.204 (5.18)	.162 (4.11)
602380-1	.939 (23.85)	.794 (20.17)	.684 (17.37)	.600 (15.24)	.258 (6.55)	.204 (5.18)
602380-2	1.011 (25.68)	.857 (21.77)	.684 (17.37)	.600 (15.24)	.333 (8.46)	.257 (6.53)
602380-3	1.091 (27.71)	.936 (23.77)	.684 (17.37)	.600 (15.24)	.500 (12.70)	.324 (8.23)
602380-4	1.143 (29.03)	1.002 (25.45)	.684 (17.37)	.600 (15.24)	.562 (14.27)	.364 (9.25)
602380-5	1.198 (30.43)	1.054 (26.77)	.684 (17.37)	.600 (15.24)	.562 (14.27)	.409 (10.39)
602380-6	1.284 (32.61)	1.119 (28.42)	.684 (17.37)	.600 (15.24)	.600 (15.24)	.460 (11.68)
602380-7	1.368 (34.75)	1.188 (30.18)	.684 (17.37)	.600 (15.24)	.684 (17.37)	.600 (15.24)
<b>336.4 kcmil Range Taps (Yellow Coded)</b>						
602000	1.069 (27.15)	.860 (21.84)	.750 (19.05)	.524 (13.31)	.355 (9.02)	.257 (6.53)
602001	1.141 (28.98)	.927 (23.55)	.750 (19.05)	.524 (13.31)	.557 (14.15)	.324 (8.23)
602002	1.190 (30.23)	.967 (24.56)	.750 (19.05)	.524 (13.31)	.619 (15.72)	.364 (9.25)
602003	1.245 (31.62)	1.012 (25.70)	.750 (19.05)	.524 (13.31)	.619 (15.72)	.409 (10.39)
602004	1.306 (33.17)	1.063 (27.00)	.750 (19.05)	.524 (13.31)	.630 (16.00)	.460 (11.68)
602006	1.370 (34.08)	1.140 (28.96)	.750 (19.05)	.524 (13.31)	.750 (19.05)	.524 (13.31)
602007	1.456 (36.98)	1.206 (30.63)	.750 (19.05)	.524 (13.31)	.750 (19.05)	.524 (13.31)
602013	.999 (25.37)	.807 (20.50)	.750 (19.05)	.524 (13.31)	.258 (6.55)	.204 (5.18)
602014	.932 (23.67)	.765 (19.43)	.750 (19.05)	.524 (13.31)	.204 (5.18)	.162 (4.11)
<b>477.0 kcmil Range Taps (Yellow Coded)</b>						
602031-8	1.185 (30.10)	.995 (25.27)	.893 (22.68)	.666 (16.92)	.326 (8.28)	.257 (6.53)
602031-9	1.118 (28.40)	.942 (23.93)	.893 (22.68)	.666 (16.92)	.258 (6.55)	.204 (5.18)
1-602031-0	1.056 (26.82)	.900 (22.86)	.893 (22.68)	.666 (16.92)	.199 (5.05)	.162 (4.11)

AMPACT Aluminum Tap System Diameter Limits Selection Guide *continues*

Catalog Number	Sum of Diameters		(Large Groove) Through Wire Diameter		(Small Groove) Tap Wire Diameter	
	Max.	Min.	Max.	Min.	Max.	Min.
<b>477.0/556.5 kcmil Range Taps (Yellow Coded)</b>						
1-602031-2	1.854 (47.09)	1.692 (42.98)	.950 (24.13)	.722 (18.34)	.950 (24.13)	.722 (18.34)
1-602031-3	1.741 (44.22)	1.524 (38.71)	.940 (23.88)	.666 (16.92)	.940 (23.88)	.666 (16.92)
1-602031-4	1.587 (40.31)	1.366 (34.70)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.573 (14.55)
1-602031-5	1.500 (38.10)	1.297 (32.94)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.481 (12.22)
1-602031-6	1.421 (36.09)	1.216 (30.89)	.940 (23.88)	.666 (16.92)	.650 (16.51)	.436 (11.07)
1-602031-7	1.360 (34.54)	1.147 (29.13)	.940 (23.88)	.666 (16.92)	.562 (14.27)	.382 (9.70)
1-602031-8	1.305 (33.15)	1.102 (27.99)	.940 (23.88)	.666 (16.92)	.562 (14.27)	.346 (8.79)
1-602031-9	1.270 (32.26)	1.062 (26.97)	.940 (23.88)	.666 (16.92)	.450 (11.43)	.324 (8.23)
2-602031-0	1.247 (31.67)	1.115 (28.32)	.940 (23.88)	.666 (16.92)	.326 (8.28)	.257 (6.53)
2-602031-1	1.181 (30.00)	1.062 (26.97)	.940 (23.88)	.666 (16.92)	.258 (6.55)	.204 (5.18)
2-602031-2	1.126 (28.60)	1.020 (25.91)	.940 (23.88)	.666 (16.92)	.199 (5.05)	.162 (4.11)
<b>795.0 kcmil Range Taps (Yellow Coded)</b>						
602121	2.216 (56.29)	2.072 (52.63)	1.156 (29.36)	.858 (21.79)	1.158 (29.41)	.858 (21.79)
602121-1	2.159 (54.84)	2.002 (50.85)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-2	2.098 (53.29)	1.946 (49.43)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-3	2.035 (51.69)	1.891 (48.03)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-4	1.966 (49.94)	1.822 (46.28)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
602121-5	1.891 (48.03)	1.747 (44.37)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
602121-6	1.829 (46.46)	1.685 (42.80)	1.156 (29.36)	.858 (21.79)	.750 (19.05)	.525 (13.34)
602121-7	1.750 (44.45)	1.606 (40.79)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.525 (13.34)
602121-8	1.670 (42.42)	1.526 (38.76)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.364 (9.25)
602121-9	1.610 (40.89)	1.466 (37.24)	1.156 (29.36)	.858 (21.79)	.608 (15.44)	.364 (9.25)
1-602121-0	1.555 (39.50)	1.411 (35.84)	1.156 (29.36)	.858 (21.79)	.608 (15.44)	.364 (9.25)
1-602121-1	1.506 (38.25)	1.362 (34.59)	1.156 (29.36)	.858 (21.79)	.436 (11.07)	.324 (8.23)
1-602121-2	1.434 (36.42)	1.290 (32.77)	1.156 (29.36)	.858 (21.79)	.398 (10.11)	.257 (6.53)
1-602121-3	1.365 (34.67)	1.221 (31.01)	1.156 (29.36)	.858 (21.79)	.312 (7.92)	.204 (5.18)
1-602121-4	1.306 (33.17)	1.162 (29.51)	1.156 (29.36)	.858 (21.79)	.250 (6.35)	.162 (4.11)
<b>1033.5 kcmil Range Taps (Yellow Coded)</b>						
602180	2.496 (63.40)	2.332 (59.23)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-1	2.411 (61.24)	2.251 (57.18)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-2	2.354 (59.79)	2.194 (55.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-3	2.297 (58.34)	2.137 (54.28)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-4	2.236 (56.79)	2.076 (52.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-5	2.173 (55.19)	2.013 (51.13)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-6	2.104 (53.44)	1.944 (49.38)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602180-7	2.029 (51.54)	1.869 (47.47)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602180-8	1.967 (49.96)	1.807 (45.90)	1.250 (31.75)	.856 (21.74)	.750 (19.05)	.525 (13.34)
602180-9	1.888 (47.96)	1.728 (43.89)	1.250 (31.75)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1-602180-0	1.808 (45.92)	1.648 (41.86)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-1	1.748 (44.40)	1.588 (40.34)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-2	1.693 (43.00)	1.533 (38.94)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-3	1.644 (41.76)	1.484 (37.69)	1.250 (31.75)	.856 (21.74)	.398 (10.11)	.324 (8.23)
1-602180-4	1.572 (39.93)	1.412 (35.86)	1.250 (31.75)	.856 (21.74)	.326 (8.28)	.257 (6.53)
1-602180-5	1.503 (38.18)	1.343 (34.11)	1.250 (31.75)	.856 (21.74)	.258 (6.55)	.204 (5.18)
1-602180-6	1.444 (36.68)	1.284 (32.61)	1.250 (31.75)	.856 (21.74)	.198 (5.03)	.162 (4.11)
<b>1192.5 kcmil Range Taps (Yellow Coded)</b>						
602300	2.604 (66.14)	2.516 (63.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-1	2.548 (64.72)	2.448 (62.18)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-2	2.498 (63.45)	2.398 (60.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-3	2.410 (61.21)	2.310 (58.67)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-4	2.353 (59.77)	2.253 (57.23)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-5	2.292 (58.22)	2.192 (55.68)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-6	2.229 (56.62)	2.129 (54.08)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-7	2.160 (54.86)	2.060 (52.32)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602300-8	2.085 (52.96)	1.985 (50.42)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602300-9	2.023 (51.38)	1.923 (48.84)	1.375 (34.93)	.856 (21.74)	.750 (19.05)	.525 (13.34)
1-602300-0	1.944 (49.38)	1.844 (46.84)	1.375 (34.93)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1-602300-1	1.865 (47.37)	1.765 (44.83)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-2	1.804 (45.82)	1.704 (43.28)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-3	1.749 (44.42)	1.649 (41.88)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-4	1.701 (43.21)	1.601 (40.67)	1.375 (34.93)	.856 (21.74)	.398 (10.11)	.324 (8.23)
1-602300-5	1.627 (41.33)	1.527 (38.79)	1.375 (34.93)	.856 (21.74)	.326 (8.28)	.257 (6.53)
1-602300-6	1.559 (39.60)	1.459 (37.06)	1.375 (34.93)	.856 (21.74)	.258 (6.55)	.204 (5.18)
1-602300-7	1.500 (38.10)	1.400 (35.56)	1.375 (34.93)	.856 (21.74)	.198 (5.03)	.162 (4.11)



C\_ampact\_el

## AMPACT EL

AMPACT EL connectors are designed for use on a larger conductor that is used on transmission lines. AMPACT EL connectors can be used in high voltage applications up to 230 kV. 500 kV lines will require a corona ring. AMPACT EL connectors can be used on solid and stranded aluminum, aluminum alloy and stranded aluminum composite conductors including AAC, AAAC, ACSR, ACAR, AW, ACSR/AW and ACSS. Below are conductor combinations already available. Contact your TE representatives for your individual needs.

### Selection Information

Catalog Number	Connector Description	Sum of Diameter	Large Groove	Small Groove
1443208-1	2500 AAC - 2500 AAC	3.648	1.824	1.824
1443209-1	1351.5 ACSR (54/19)-636 ACSR (26/7)	2.414	1.424	.099
109423-1	1590 AAC (61)-795 AAC (61)	2.482	1.454	1.028
276915-1	1590 ACSR (45/7)-1590 ACSR (45/7)	3.008	1.504	1.504
81673-1	1590 ACSR (45/7)-1272 ACSR (45/7)	2.849	1.504	1.345
81673-2	1590 ACSR (45/7)-795 ACSR (45/7)	2.567	1.504	1.063
81673-3	1590 ACSR (45/7)-336.4 ACSR (26/7)	2.225	1.504	0.721
83086-1	1590 ACSR (45/7)-336 ACSR (26/7)	2.225	1.504	0.721
83086-2	1590 ACSR (45/7)-4/0 AAC (SOL)	1.964	1.504	0.460
109424-1	1351.5 ACSR (54/19)-1351.5 ACSR (54/19)	2.848	1.424	1.424
109703-1	1351.5 ACSR (54/19)-397.5 ACSR (18/1)	2.167	1.424	0.743
276548-1	1843.2 ACSR (72/7)-795.5 ACSR (27/7)	2.712	1.604	1.108
602080-0	2500 AAC (X)-500 AAC (19), 500 CU (19)	2.635 2.634	1.824	0.811 0.810
602080-1	2500 AAC (X)-500 AAC (19), 500 CU (19)	2.635 2.634	1.824	0.811 0.810
109433-1	1272 ACSR (45/7)-954 ACSR (45/7)	2.510	1.345	1.165
276300-1	1272 ACSR (45/7), (36/1)-1272 ACSR (45/7), (36/1)	2.690 2.632	1.345 1.316	1.345 1.316
1443268-1	1272 ACSR (54/19)-1272 ACSR (54/19)	2.764	1.382	1.382
	850 mm <sup>2</sup> HAL-660 mm <sup>2</sup> HAL*	2.799	1.488	1.311
81698-1	2167 ACSR (72/7)-556.5 ACSR (24/7)	2.651	1.737	0.914
83861-1	143 AAC (61)-1272 ACSR (45/7)	2.724	1.379	1.345
1443259-1	1351.5 ACSR (54/19)-397.5 ACSR (18/1)	2.167	1.424	0.743

\*Use yellow cartridge 69338-4, HAL - Hard Drawn Aluminum, use AMPACT tool 69611 to apply taps  
Contact your TE sales representative for additional sizes.



C\_ampact\_hht

## AMPACT HTT High Temperature Tap

To provide a new family of wedge technology products suitable for use on ACSS overhead lines operating at temperatures up to 250°C, TE Connectivity has developed a new contact-aid compound (corrosion inhibitor). This inhibitor compound is capable of sealing the electrical contact area of the connectors while exposed to high operating temperatures. This new compound is incorporated in TE's AMPACT HTT (high temperature tap), expanding the AMPACT connector family of products to provide increased reliability of connectors for ACSS applications.

- Synthetic lubricant will not degrade insulating materials. It is safe to use and will not damage conductor insulation.
- Integrated, large, hard, conductive metal alloy particles scrub the conductor during wedge travel, so the conductor is abraded during the connection installation process.
- Metal-to-metal contact areas are established and sealed.
- Wedge technology combined with a proprietary high-temperature corrosion inhibitor enhances connector reliability on ACSS conductors.
- Exceeds ANSI C119.4 AA standard current cycling test specifications
- Meets mechanical pull test and corrosion requirements
- Accommodates a wide range of cable diameters
- AMPACT HTT are installed with standard AMPACT tools.
- HT Inhibitor may be purchased separately for any HT application.

### Selection Information

Catalog Number	Description	Size
1443316-2	AMPACT High Temperature Inhibitor	1-pound cartridge





C\_Stirrups

## Stirrups

- Easy to install with AMPACT tooling
- Heavy duty, tin plated copper bail
- No damage to conductors when removed
- Connects almost all solid, stranded or compressed conductor combinations

### Selection Information

Catalog Number	Conductor Range Size	ACSR, AAC Conductor	Standard Bail	Part Number	Cartridge Color
602585	Type II	#6	No. 2	69338-5	White
602586	Type II	#4, #2	No. 2	69338-5	White
1443312-1	Medium	#4, #2	No. 2	69338-1	Blue
600464	Medium	1/0 or 2/0	No. 2	69338-1	Blue
275436-1	Medium	1/0 or 2/0	1/0	69338-1	Blue
600468	Medium	2/0 or 3/0	No. 2	69338-1	Blue
600469	Medium	3/0 or 4/0	No. 2	69338-1	Blue
275435-1	Medium	3/0 or 4/0	1/0	69338-1	Blue
602173	Medium	3/0 or 4/0	2/0	69338-1	Blue
600463	Medium	266.8	No. 2	69338-1	Blue
602201	Medium	266.8	1/0	69338-1	Blue
602502	Medium	350 AAC	1/0	69338-1	Blue
276478-1	Medium	350 AAC	No. 2	69338-1	Blue
600474	Large	336.4	1/0	69338-4	Yellow
602142	Large	336.4	2/0	69338-4	Yellow
602136	Large	336.4	4/0	69338-4	Yellow
602047	Large	397.5 or 477	1/0	69338-4	Yellow
602143	Large	397.5 or 477	2/0	69338-4	Yellow
602247	Large	397.5 or 477	4/0	69338-4	Yellow
602104	Large	556.5	1/0	69338-4	Yellow
602248	Large	556.5	2/0	69338-4	Yellow
602115	Large	556.5	4/0	69338-4	Yellow
602174	Large	636	2/0	69338-4	Yellow
602162	Large	795	2/0	69338-4	Yellow
602163	Large	795	4/0	69338-4	Yellow
602237	Large	1033.5	4/0	69338-4	Yellow



C\_ampact\_StudDisc

## AMPACT Stud Disconnect System

Separable connections in the utility industry exist wherever maintenance must be performed. Common practice in many utilities is to use a stirrup connector and hot-line clamp. This practice is not acceptable in high current applications due to current limitations of the hot-line clamp and stirrup bail.

Attached to the circuit conductor using the AMPACT tap, a two-hole NEMA lug can be bolted to the disconnect in either orientation. The disconnect is then plugged onto the stud with hot-sticks or rubber gloves and connected/disconnected in seconds with a few turns of the eyebolt. The stud can be assembled to the line pointing up or down as required.

- Standard NEMA pad allows use of any size jumper conductor
- Can be easily removed in seconds
- Rated for 750 amps continuous current for demanding applications
- Lug can be attached in either orientation for maximum application flexibility
- System tested to ANSI C119.4
- Stud locking feature allows safe removal and easy hot-stick application
- Easy to park on standard parking stud

The AMPACT stud disconnect is an addition to the proven wedge pressure system that utilities around the world have counted on for over thirty years.

### Technical Documents

Instruction Sheet	408-9968
Engineering Test Report	502-47000

### Selection Information *(Use of kits is highly recommended.)*

Kit	Part Number
Replacement Disconnect	83471-1
Replacement Stud	83396-1

Conductors Accommodated	Complete Kit	Kit with Stud w/o Disconnect	Appropriate AMPACT Tap Only
1/0 AAC, ACSR to 4/0 ACSR, AAC	83470-1	83452-1	1-602031-7
266.8 AAC, ACSR to 336.4 AAC, ACSR	83470-2	83452-2	1-602031-5
477.0 AAC, ACSR to 556.5 AAC, ACSR	83470-3	83452-3	1-602031-3
795.0 AAC, ACSR	83470-4	83452-4	602121-5



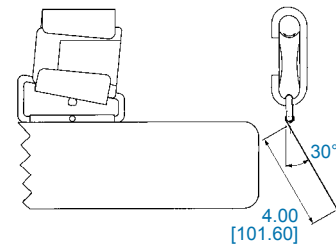
C\_IDplates

## Identifier Plates

TE's Identifier (ID) Plate can be installed on primary or secondary distribution conductors for field identification of circuits and/or switches. The improved identification accuracy can contribute to safer operation of line apparatus especially in congested circuits or multiple switch locations. The AMPACT connectors have been incorporated into the Identifier Plate design creating simple efficient application with the AMPACT tool and cartridge. The lightweight aluminum construction enables easy installation with hot-sticks or rubber gloves. The proven mechanical connection provided by TE's wedge-pressure connectors will not damage the conductor. The vibration resistant connection reduces the possibility of radio frequency interference.

The ID Plate is angled for easier viewing from the ground. Its flat, black anodized surface provides a sharp contrast to the alpha-numeric characters that can be applied to its surface. (Alpha-numeric symbols not supplied with plate).

- Angled for easy viewing from ground
- Reduces radio frequency interference
- Lightweight
- Applied with AMPACT tool or standard wrench
- Circuit Identification
- Phase Marking
- Switch Identification
- All aluminum construction, black anodized



### Selection Information

Part Number	Fits
w/AMPACT Connector	Conductor
83005-4	#2-1/0
83005-1	2/0-4/0 AWG
83005-5	4/0-266.8
83005-2	336.4-556.5 AAC
83005-3	795 AAC, ACSR

Plate width – 4.00 (101.60),  
Plate length – 15.50 (393.70).

Note: Alpha-numeric characters not supplied with ID plate.



C\_ampact\_Deadend

## AMPACT Deadend Clamp Assembly

The AMPACT deadend clamp connector assembly has been designed to simplify installation and to provide superior performance. Standard AMPACT tooling and standard utility construction procedures are used to install the AMPACT deadend clamp connector assembly either by hand (rubber gloves) or with hot-sticks. A quick visual inspection of the lance on the end of the wedge is a positive verification of a proper installation, eliminating the need for torque wrenches or other special tooling.

The AMPACT deadend clamp connector assembly is offered as a Straight Deadend, Deadend Clamp with 3/4 [19.05] Jumper Stud, or Deadend Clamp with 2/0 Bail. Use of the AMPACT deadend clamp connector assembly with Jumper Stud or Bail eliminates the need for a separate electrical connection to the conductor. TE's proven wedge pressure technology and components manufactured from selected aluminum alloys are combined to create a Deadend Clamp that exceeds the mechanical and electrical industry standards.

The "C" and "wedge" components come with factory applied inhibitor to enhance continued contact integrity. The AMPACT deadend clamp connector assembly fits standard stranded, All Aluminum Conductors (AAC) and Aluminum Stranded Conductors (ASC), in sizes 266.8, 336.4, 477.0, and 556.5 kcmil.

The pulling eye, an integral part of the Deadend body, is rated at 6,000 lbs, while the Deadend body is rated at 10,000 lbs. The "C" and "wedge" components are not reusable. Replacement "wedge" and "C" components can be obtained by contacting your local TE Connectivity representative.

- Installed with standard AMPACT tools
- Simple hot-stick application
- Available as a mechanical or combination mechanical and electrical termination
- Wedge pressure technology
- Positive visual inspection
- Removable without damage to conductor
- Exceeds CSA C83.71-M87 Standard for Deadend Clamps
- Exceeds the electrical and mechanical requirements of ANSI C119.4 and CSA C57 standards

### Technical Documents

Instruction Sheet	408-9988
Engineering Test Report	502-47001

### Performance Characteristics

Pulling Eye Strength	6,000 lbs. [26,690 N]
Deadend Body Strength	10,000 lbs. [44,480 N]

### Selection Information

Style	Fits Conductor (AAC/ACSR) <sup>1</sup>	Catalog Number
Deadend Clamp	266.8	83589-1
	336.4	83589-2
	477.0	83589-3
	556.5	83589-4
	795 ACC	83589-6
	795 ACSR / 954 AAC	83589-7
	Deadend Clamp w/Jumper Stud <sup>2</sup> (3/4 [19.05] Plated Cu)	266.8
336.4		83590-2
477.0		83590-3
556.5		83590-4
Deadend Clamp w/Stirrup (2/0 Plated Cu Bail)	266.8	83591-1
	336.4	83591-2
	477.0	83591-3
	556.5	83591-4

1. Designed to fit AAC/ACSR standard stranded conductor.

2. For additional information refer to AMPACT Stud Disconnect System.

Note: The "C" and "wedge" components are not reusable. Contact your local TE representative for replacement "C" and "wedge" components or for part numbers to connect wire types/sizes not shown.



C\_ampact\_ILD

## AMPACT In-Line Disconnect Switch (ILD-II) 15 kV to 69 kV Class

The AMPACT In-Line Disconnect Switch (ILD II) combines the reliability of copper blade components and a double string of polymeric insulators with the AMPACT deadend yoke assembly. The result is an in-line disconnect that can be installed without the need for tensioning devices.

The proven performance of AMPACT deadend technology has been utilized in the design of the AMPACT In-Line Disconnect Switch (ILD II). The deadend yokes are bolted to (2) two polymeric insulators. The copper blade assembly is connected to the AMPACT deadend yoke assembly between and below the double string of insulators. This provides adequate space for cutting the conductor after installation of the AMPACT deadend taps.

Standard AMPACT tap application procedures are used to make both electrical and mechanical connections simultaneously. The AMPACT In-Line Disconnect Switch (ILD II) can be installed on standard stranded all aluminum conductors (AAC) or aluminum conductor steel reinforced (ACSR) in conductor sizes from 1/0 to 954. In addition to its original function to help install the switch on the conductor, the uniquely designed eye keeper doubles as a mechanical clamp to increase the conductor pulling-out strength in excess of 7500 lb without slipping or damage to conductor.

The integral pulling eye on the body of the AMPACT deadend yoke assembly is provided to the attachment of line tensioning devices if removal of the AMPACT in-line disconnect switch is required. The tensile rating of the pulling eye is 6,000 lbs, while the AMPACT deadend yoke assembly is rated at 10,000 lbs tensile. Electrical ratings are provided in the performance characteristic tables.

The unique AMPACT In-Line Disconnect design allows for positioning of cutters between the double insulator assembly. The conductor can be cut between the AMPACT deadend yoke assemblies and the ends bent back, or if using the new keepers, it can be cut flush on each end.

- Installation with standard AMPACT tooling
- Quick, easy manual or hot-stick application
- Both mechanical and electrical connection made simultaneously with the AMPACT tap
- No line tensioning devices required for installation
- Double string of polymeric insulators prevents rolling of the switch
- Copper disconnect blade assembly suspended below the insulators simplifying the cutting of conductor

### Performance Characteristics

Voltage: 15 kV (110 kV BIL), 29 kV (150 kV BIL), 35 kV (200 kV BIL), 46 kV (250 BIL), 69 kV (350 kV BIL)

Current: 900 and 1200 Amps

Frequency: 60Hz

Momentary Current: 40,000 Amps

Short Time Current: 25,000 Amps, 3 sec.

### Technical Documents

Instruction Sheet: PII 56078

Engineering Test Report: 502-47376

### Approvals

RUS Listed

ANSI: C119.4, C37.32, C37.34

IEEE: C37.30

CSA: C83.71

Selection Information

	ACSR	AAC	Replacement	BIL with Taps - <i>without Taps</i>				
				15 kV, 110 kV	29 kV, 150 kV	35 kV, 200 kV	46 kV, 250 kV	69 kV, 350 kV
X-Small	1/0 <sup>6</sup> / <sub>1</sub> 2/0 <sup>6</sup> / <sub>1</sub>	1/0	1-83843-0	1710723-1* <b>1710722-1*</b>	1710727-1* <b>1710726-1*</b>	1710731-1* <b>1710730-1*</b>	-	-
				1710725-1** <b>1710724-1**</b>	1710729-1** <b>1710728-1**</b>	1710733-1** <b>1710732-1**</b>		
Small	3/0 <sup>6</sup> / <sub>1</sub> 4/0 <sup>6</sup> / <sub>1</sub>	4/0	83843-7	1710723-2* <b>1710722-2*</b>	1710727-2* <b>1710726-2*</b>	1710731-2* <b>1710730-2*</b>	1710735-1 <b>1710734-1</b>	1710737-1 <b>1710736-1</b>
				1710725-2** <b>1710724-2**</b>	1710729-2** <b>1710728-2**</b>	1710733-2** <b>1710732-2**</b>		
	266.8 <sup>18</sup> / <sub>1</sub>	266.8	83843-1	1710723-3* <b>1710722-2*</b>	1710727-3* <b>1710726-2**</b>	1710731-3* <b>1710730-2*</b>	1710735-2 <b>1710734-1</b>	1710737-2 <b>1710736-1</b>
				266.8 <sup>26</sup> / <sub>7</sub> 336.4 <sup>18</sup> / <sub>1</sub> , <sup>26</sup> / <sub>7</sub> , <sup>30</sup> / <sub>7</sub>	397.5 336.4 350	83843-2	1710723-4* <b>1710722-2*</b>	1710727-4* <b>1710726-2*</b>
Large	397.5 <sup>18</sup> / <sub>1</sub> , <sup>24</sup> / <sub>7</sub> , <sup>26</sup> / <sub>7</sub> , <sup>30</sup> / <sub>7</sub> 477.0 <sup>18</sup> / <sub>1</sub>	450 477 500	83843-3	1710723-5* <b>1710722-3*</b>	1710727-5* <b>1710726-3*</b>		1710731-5* <b>1710730-3*</b>	1710735-4 <b>1710734-2</b>
				1710725-5** <b>1710724-3**</b>	1710729-5** <b>1710728-3**</b>	1710733-5** <b>1710732-3**</b>		
	477.0 <sup>26</sup> / <sub>7</sub> 556.5 <sup>18</sup> / <sub>1</sub>	556.5	83843-4	1710723-6* <b>1710722-3*</b>	1710727-5* <b>1710726-3*</b>	1710731-6* <b>1710730-3*</b>	1710735-5 <b>1710734-2</b>	1710737-5 <b>1710736-2</b>
				1710725-6** <b>1710724-3**</b>	1710729-5** <b>1710728-3**</b>	1710733-6** <b>1710732-3**</b>		
X-Large	477.0 <sup>30</sup> / <sub>7</sub> 556.5 <sup>24</sup> / <sub>7</sub> , <sup>26</sup> / <sub>7</sub> , <sup>30</sup> / <sub>7</sub> 605 <sup>24</sup> / <sub>7</sub> , <sup>26</sup> / <sub>7</sub> 636 <sup>18</sup> / <sub>1</sub> , <sup>36</sup> / <sub>1</sub>	600 636 650 700	83843-5	1710723-7* <b>1710722-4*</b>	1710727-7* <b>1710726-4*</b>	1710731-7* <b>1710730-4*</b>	1710735-6 <b>1710734-3</b>	1710737-6 <b>1710736-3</b>
				1710725-7** <b>1710724-4**</b>	1710729-7** <b>1710726-4**</b>	1710733-7** <b>1710732-4**</b>		
	605 <sup>30</sup> / <sub>19</sub> 636 <sup>26</sup> / <sub>7</sub> , <sup>24</sup> / <sub>7</sub> , <sup>30</sup> / <sub>19</sub> 666.6 <sup>24</sup> / <sub>7</sub> , <sup>26</sup> / <sub>7</sub> 795 <sup>36</sup> / <sub>1</sub> , <sup>42</sup> / <sub>7</sub> , <sup>45</sup> / <sub>7</sub>	715.5 750 795	83843-6	1710723-8* <b>1710722-4*</b>	1710727-8* <b>1710728-4*</b>	1710731-8* <b>1710730-4*</b>	1710735-7 <b>1710734-3</b>	1710737-7 <b>1710736-3</b>
				1710725-8** <b>1710724-4**</b>	1710729-8** <b>1710728-4**</b>	1710733-8** <b>1710732-4**</b>		
	795 <sup>24</sup> / <sub>7</sub> , <sup>26</sup> / <sub>7</sub> <sup>30</sup> / <sub>7</sub> , <sup>30</sup> / <sub>19</sub> , <sup>54</sup> / <sub>7</sub>	954	1-83843-1	1710723-9* <b>1710722-4*</b>	1710727-9* <b>1710726-4*</b>	1710731-9* <b>1710730-4*</b>	1710735-8 <b>1710734-3</b>	1710737-8 <b>1710736-3</b>
				1710725-9** <b>1710724-4**</b>	1710729-9** <b>1710728-4**</b>	1710733-9** <b>1710732-4**</b>		

\*K-line insulators and S&C blades

\*\*Victor insulators and Royal blades

Note: For hot-stick work you will need the following: "C" and Wedge Holder 69900, Piggy Back Clamp 69883

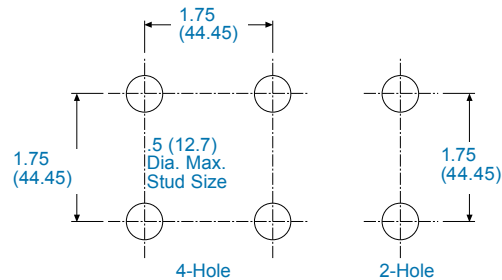


C\_Terminal Lugs

## Terminal Lugs

- Easy to install with AMPACT tooling
- Use as disconnectable tap or jumper connection
- Controlled contact pressure
- Easily removable and relocated
- Aluminum alloy models
- Terminal pads have NEMA drilled bolt patterns
- Use on overhead or pad mounted transformers

### Bolt Hole Patterns



### Selection Information

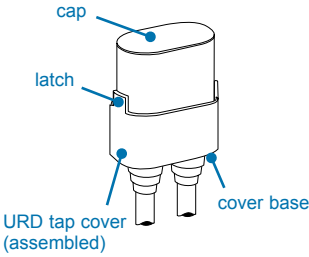
Paddle Type	Shank Size Conductor	(Tap Groove)	Ampacity*	Catalog Number
2-Hole Paddle	#2 thru #6 1/0 thru 4/0 266.8 kcmil	4/0 Str	610	602089
2-Hole Paddle	336.4, 397.5, 477, 556.5 kcmil 636, 795, 954, 1033.5 kcmil	336.4 Str 397.5 795 Str	895 895 1400	602097 569398-1** 602285
4-Hole Paddle	#2 thru #6 1/0 thru 4/0 266.8 kcmil	4/0 Str	610	602091
4-Hole Paddle	336.4, 397.5, 477, 556.5 kcmil 636, 795, 954, 1033.5 kcmil	336.4 Str 795 Str	895 1400	602099 602286
4-Hole Flag	336.4, 397.5, 477, 556.5 kcmil 636, 795, 954, 1033.5 kcmil	336.4 Str 795 Str	895 1400	602093 602287

\*Current-carrying capacity in amperes at 90°C  
IS 408-2116

\*\*569398-1 has longer shank



C\_TapCovers\_URD



## Tap Covers for Underground Residential Distribution (URD)

AMPACT tap covers, combined with the standard AMPACT tap, provide an effective method of making an insulated moisture-proof connection. This connection is designed for use in direct burial and ducted installations, above or below grade, in various types of soil and in various climates.

The tap cover is a two-piece molded plastic cover consisting of a cover base and a cap. The cap contains a row of notches on each side to mate with latches on the cover base which contains a piston and the sealing compound. Projecting from the cover base are one or two reducers that may be trimmed to conform to the variety of sizes of insulated conductors. As the cover is closed, the latches engage the notches and the piston forces the sealing compound around the insulated conductor, sealing the connection. This sealing action protects the connection from oxidation and corrosion.

### Selection Information (dimensions shown in inches/millimeters)

Catalog Number	Size	Conductor Insulation Dia Range	Conductor Strip Length
602179	Small	.200-.500 (5.08-12.7)	1.5 (38.1)
602178	Medium	.300-.820 (7.62-20.8)	2.37 (60.3)

Note: Refer to Instruction Sheet IS 2584 for application instructions.



C\_GelPactCovers

## GelPact Covers AMPACT Taps

TE's Raychem GelPact covers provide corrosion protection for AMPACT aluminum taps in severely corrosive environments such as coastal or heavily polluted areas. GelPact covers will prevent corrosion from forming on newly installed AMPACT taps in aerial applications. For previously installed AMPACT taps, installing a GelPact cover will help to arrest the progress of any corrosion that might be forming in the tap.

Made of sturdy, black, UV stable plastic. GelPact covers are provided in packs of 18 for white and blue and in packs of 12 for yellow. These covers are ready to snap on quickly and start providing corrosion protection for your electrical network. GelPact cover kits feature revolutionary PowerGel sealing gel which provides an excellent moisture seal over a wide temperature range (-40°C to 105°C). PowerGel sealing gel offers excellent insulating properties and acts as a vibration damper, as well.

Just three sizes of GelPact covers accommodate the entire AMPACT tap product line. GelPact W-sized covers fit all white coded taps. GelPact B-sized fits all blue-coded AMPACT taps, while GelPact SMY-sized covers fit 336 up to 605 mcm.

### Selection Information

Catalog Number	Product Description
1710523-1	Gelpact B fits all blue connectors #6 - 4/0
1710501-1	Gelpact SMY fits all yellow connectors 336 - 605
1710500-1	Gelpact W fits all white connectors #6 - 1/0



C\_TapCovers

## Tap Covers

These tap covers are used to electrically insulate AMPACT taps from neighboring taps, exposed ground conductors, or nearby grounded structures in 600-volt maximum, insulated-conductor overhead applications.

### Selection Information

Tap Size	Color Code	Strip Style	Cover Length*	Catalog Number
Type II	White	Hinged Top 82.6	3.25	83364-1
Medium 266.8 and 350	Blue	Hinged Top 108	4.25	602080
336.4, 477 and 556.5	Yellow	Hinged Top 152	6	602107
795 and 1033.5	Yellow	2 Half Sections 165	6.5	602284

\*Nominal strip length of insulation on through and tap conductors IS 408-2137

Type II covers will fit MINIWEDGE connectors as well.



C\_AMPACT tool

## AMPACT Tool

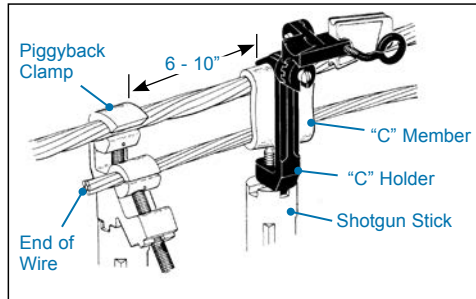
- Lightweight powder-actuated tools require minimum operator effort
- Installs and removes taps even in confined spaces
- Adaptable for standard hot-stick use
- Conductor applications imprinted on tap packages
- Packages and labels color coded to match taps and cartridges

### Selection Information

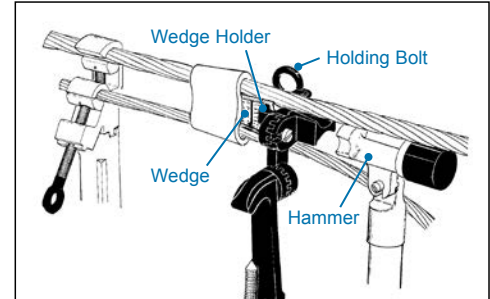
Catalog Number	Description	Connects
69437	Small AMPACT Tool (For Red-, White-, and Blue-coded taps)	Aluminum Wire Combinations: #8 — 350 kcmil
69611	Large AMPACT Tool (For Yellow-coded taps only)	Aluminum Wire Combinations: 336.4 — 1192.5, AMPACT EL tap connectors

### Using the AMPACT tool with the Hot Stick

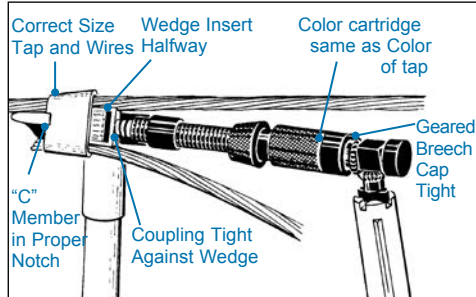
1. Position “piggyback” clamp onto wire.  
“C” member hooked onto the wire



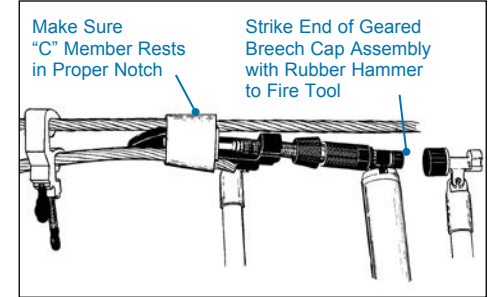
2. Wedge is placed in “C” member.



3. AMPACT tool clamped over the tap.



4. Tap is completed by hammer blow to end of tool.



### Replacement Parts

Catalog Number	Description
69633-2	Large Tool Head
47667-8	Small Tool Head
69612	Universal Power Unit
308967-1	Breech Assembly
314196-1	Breech Cap Assembly (3-Pc)
5-304668-3	Retaining Spring



69633-2



47667-8



69612



308967-1



314196-1, 5-304668-3





C\_ampact\_EZload

## AMPACT EZ Load Wedge Installation Tool

The AMPACT EZ LOAD tool is a precision designed, powder actuated tool that is robust yet lightweight. The tool is designed with a lock and load approach. This all in one design hinges on the power unit and is easily opened and closed to replace the cartridges. AMPACT tools are engaged by firing a special powder loaded cartridge within the tool which reduces the time and effort required to tap a power line.

AMPACT cartridges are color-coded (red etc.) and designed specifically for use in the AMPACT EZ LOAD tools to install AMPACT taps. The cartridges are molded of weatherproof polyethylene and packed with propellant and primer. The color of the cartridge indicates the strength of the powder charge and corresponds to the color-code of tap sizes with which they are used.

The compact tools are manufactured in high-grade steel to precise tolerances and are available in two sizes: large head and small head. The same interchangeable power unit is used in both tools.

### Selection Information

Catalog Number	Description
1443413-2	AMPACT EZ LOAD Power k Adapter
1443514-1	AMPACT EZ LOAD Hot-Stick Adapter Kit (includes Piercer pin guide and cover)
1443470-1	AMPACT EZ LOAD Hot-Stick Adapter with Power Unit
1443442-1	AMPACT EZ LOAD Cleaning tool
1443448-1	AMPACT EZ LOAD Tool repair kit (included Piercer Pin guide, Piercer pin and grub screw)
69610-2	Hot-stick Kit for EZ Load tool



C\_ampact\_cartridges

## Cartridges

Catalog Number	Description
69338-5	White
69338-2	Red
69338-1	Blue
69338-4	Yellow



80665-2

C\_ampact\_inhibitor

## Inhibitor Compound and NEMA Interface Hinge

Catalog Number	Description
80665-3	8 oz. (236 ml) plastic bottle aluminum inhibitor compound
80665-2	1 qt (.95 litre) can aluminum inhibitor compound
561118-1*	2-Hole NEMA interface hinge to protect against corrosion between dissimilar metals

\*IS 408-2556



80665-3



561118-1



C\_cleaningtool

## Cleaning Tool

Part Number	Description
314199-1	Cleaning Tool



C\_takeoffclip

## Take-Off Clip

### Catalog

Number	Description
69685-1*	For Blue-Coded Taps (and White-Coded Copper Taps)
69684	For Red-Coded Taps
69947	For Type II White-Coded Taps
69847	For Yellow-Coded Taps

\*IS 408-2589

Note: Refer to Customer Manual 409-2106 for AMPACT tap removal.



C\_platform

## Auxillary Platform

### Catalog

Number	Description
306814	Auxillary Platform

Notes:

1. Part No. 69437 includes Take-off Clips, Part Nos. 69947 and 69685-1
2. Part No. 69611 includes Take-off Clip, Part No. 69847
3. Auxiliary Platform Part No. 306814-3 is required to install red-coded standard taps with Small AMPACT Tool.
4. Refer to Customer Manual 409-2106 for instructions on AMPACT connector installation and removal.  
IS 408-9494 (P/N 314199-1), IS 408-9907 (P/N 69611 and 69437), IS 408-1201 (P/N 69437)

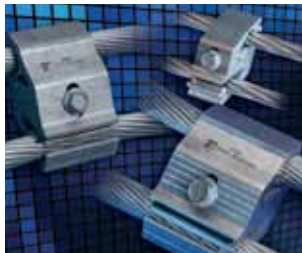


C\_bags

## Accessory Bag

### Catalog

Number	Size	Description
608338-1	12.5 (317.4) tall, 7 (177.8) dia.	Open type, brass snap-on swivel hook, white canvas
607501-1	12.5 (317.4) tall, 7 (177.8) dia.	Open type, brass snap-on swivel hook
608877-1		AMPACT Tool Kit Box



C\_TWC

## Transverse Wedge Connectors

Transverse Wedge Connectors (TWC) represent the second generation of Wedge Pressure Technology developed by the company that introduced Wedge Pressure Technology with the AMPACT connector system. The TWC family provides superior wedge performance and reliability with greater conductor range accommodation – without the need for special application tooling.

The TWC product line has a unique application method. The connector is hooked over both conductors and then closed. As the user tightens the fastener, the interlocking wedges create deflection in the two independent “J” members. Once the wedges bottom out, the “J” members provide consistent contact force regardless of the amount of torque required to close the connector. There is no torque specification for the TWC product line.

Qualified to ANSI Class AA, the TWC does not require special application tooling.

### Selection Information

#### Catalog

Number	Description
2182075-1	TWC Hotstick Kit East Coast Universal Connect includes Sockets
2182076-1	TWC Hotstick Kit West Coast Quick connect includes Sockets

AA Cover	1710837-1
25-Pack	1710837-2
50-Pack	1710837-3

BB Cover	1710839-1
25-Pack	1710839-2
50-Pack	1710839-3