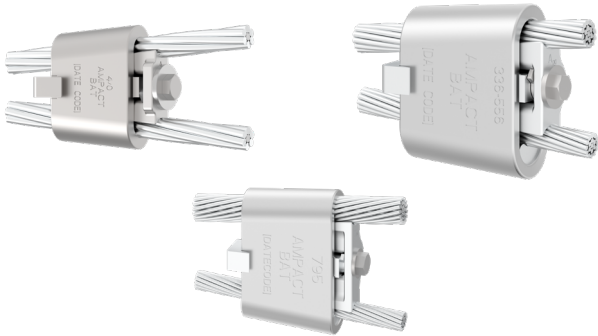


AMPACT BAT BOLT ACTUATED TAP CONNECTORS

4/0, 556 & 795 SERIES - IMPERIAL SYSTEM



**CLASS-LEADING TECHNICAL STRENGTH
UTILIZING TE'S ENGINEERING PRINCIPLE OF
WEDGE PRESSURE TECHNOLOGY FIELD
PROVEN FOR OVER 60 YEARS**

KEY FEATURES

- Expanded application range with use of removable insert
- Easy to install with a standard impact wrench
- Tap connectors may be used to connect multiple conductor combinations
- No damage to the conductors when installing or removing the tap connectors
- Solid stop for visual inspection of properly installed connector
- RUS listed

TE Connectivity's (TE) AMPACT BAT Bolt Actuated Tap connectors are part of TE's legacy brand AMP utility connectors portfolio. The AMPACT BAT tap connectors are our second-generation wedge-pressure connectors, which provide the proven performance of AMPACT fired-on wedge connectors without the requirement of a powder-actuated installation tool. Select taps utilize a factory-installed insert (removable) to maximize the application range, resulting in a reduction in the number of unique connectors required for a network.

The AMPACT "Smart C" and wedge components are made of aluminum alloy with stainless steel hardware 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.

During the connection process, the AMPACT BAT wedge pressure technology combines the abrading action between the conductor and connector surfaces with an inhibitor that seals the connection. This prevents air from reaching the mated material. The result is a longer-lasting, more reliable electrical connection.

For the installation process, the AMPACT BAT tap connectors develop and maintain the clamping force on the conductor, through the residual elastic load developed in the connector, ensuring the integrity of the connection for the life of the installation. The elastic force also helps prevent creepage by compensating for expansion and contraction of the assembly during thermal cycling. The presence of an inhibitor in the electrical interfaces protects electrical contact spots from corrosive attack during their lifetime.

APPLICATIONS

- Overhead Power Systems
- Electrical Substations

RELEVANT STANDARDS AND TEST REPORTS

- Electrical performance according to ANSI C-119.4 Class AA
- Short-time current test to AS1154.1

4/0 SERIES

AMPACT BAT ALUMINUM TAP SYSTEM SELECTION GUIDE

Part Number	Main Conductor	Tap Conductor
2445483-1	4/0 AAC-ACSR	4/0 AAC-ACSR, SOL
		3/0 AAC-ACSR
2445483-2	4/0 AAC-ACSR	3/0 SOL
		2/0 AAC-ACSR, SOL
		1/0 AAC-ACSR, SOL
	3/0 AAC-ACSR	
2445483-3	2/0 AAC-ACSR	3/0 AAC-ACSR, SOL
	2/0 AAC-ACSR	2/0 AAC-ACSR
2445483-3	4/0 AAC-ACSR	#2 AAC-ACSR
	3/0 AAC-ACSR	2/0 SOL
	2/0 AAC-ACSR	1/0 AAC-ACSR, SOL
	2/0 AAC-ACSR	2/0 AAC-ACSR, SOL
2445483-4	4/0 AAC-ACSR	1/0 AAC-ACSR
		1/0 AAC-ACSR
		1/0 AAC-ACSR
	3/0 AAC-ACSR	#2 AAC-ACSR, SOL
	2/0 AAC-ACSR	#4 AAC-ACSR
	1/0 AAC-ACSR	1/0 SOL
2445483-5	3/0 AAC-ACSR	#2 AAC-ACSR
		#4 AAC-ACSR, SOL
	2/0 AAC-ACSR	#6 AAC-ACSR, SOL
		#2 AAC-ACSR, SOL
	1/0 AAC-ACSR	#4 AAC-ACSR, SOL
		#2 AAC-ACSR, SOL
	#2 AAC-ACSR	#2 AAC-ACSR
	2445483-6	1/0 AAC-ACSR
#2 AAC-ACSR		#6 AAC-ACSR, SOL
		#2 SOL
		#4 AAC-ACSR, SOL
2445483-7	#4 AAC-ACSR	#6 AAC-ACSR, SOL
	#4 AAC-ACSR	#4 AAC-ACSR, SOL
		#6 AAC-ACSR, SOL

Note: Tap Selection Chart covers common conductor combinations, refer to Sum of Diameter table below for full connector use range.

4/0 SERIES - SUM OF DIAMETER LIMITS SELECTION GUIDE (DIMENSIONS ARE IN INCHES)

Part Number	Sum of Diameters		Main Conductor Diameter (Large Groove)		Tap Conductor Diameter (Small Groove)	
	Max.	Min.	Max.	Min.	Max.	Min.
2445483-1	1.126	0.986	0.563	0.522	0.563	0.464
2445483-2	1.010	0.877	0.563	0.464	0.502	0.355
2445483-3	0.900	0.782	0.563	0.414	0.447	0.292
2445483-4	0.827	0.696	0.563	0.368	0.398	0.162
2445483-5	0.723	0.584	0.502	0.292	0.355	0.162
2445483-6	0.596	0.464	0.398	0.232	0.258	0.162
2445483-7	0.455	0.368	0.257	0.162	0.204	0.162

Note: Conductor diameters must fit within the Main and Tap diameter ranges. The sum of both conductor diameters must fit within the Min and Max range of the Sum of Diameters.

556 SERIES

AMPACT BAT ALUMINUM TAP SYSTEM SELECTION GUIDE

Part Number	Conductor Range with Insert		Conductor Range No/Remove Insert	
	Main Conductor	Tap Conductor	Main Conductor	Tap Conductor
2376750-1	556.5 AAC-ACSR	336.4 AAC- ACSR, 350 AAC	556.5 AAC-ACSR	556.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	397.5 AAC-ACSR		
2376750-2	556.5 AAC-ACSR	266.8 AAC-ACSR, 250 AAC	556.5 AAC-ACSR	477 AAC-ACSR, 500 AAC
	477 AAC-ACSR, 500 AAC	336.4 AAC-ACSR, 350 AAC		
	397.5 AAC-ACSR	397.5 AAC-ACSR		
2376750-3	556.5 AAC-ACSR	4/0 AAC-ACSR	556.5 AAC-ACSR	397.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	266.8 AAC-ACSR, 250 AAC		
	397.5 AAC-ACSR	336.4 AAC-ACSR, 350 AAC	477 AAC-ACSR, 500 AAC	477 AAC-ACSR, 500 AAC
2376750-4	556.5 AAC-ACSR	3/0 AAC-ACSR, 4/ 0 SOL	556.5 AAC-ACSR	556.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	4/0 AAC-ACSR		
	397.5 AAC-ACSR	266.8 AAC-ACSR, 250 AAC		
	336.4 AAC-ACSR	336.4 AAC-ACSR, 350 AAC		
	350 AAC	350 AAC		
2376750-5	556.5 AAC-ACSR	2/0 AAC-ACSR, SOL, 3/0 SOL	556.5 AAC-ACSR	477 AAC-ACSR, 500 AAC
	477 AAC-ACSR, 500 AAC	3/0 AAC-ACSR, 4/0 SOL		
	397.5 AAC-ACSR	4/0 AAC-ACSR		
	336.4 AAC-ACSR	266.8 AAC-ACSR, 250 AAC		
2376750-6	556.5 AAC-ACSR	1/0 SOL -STR	556.5 AAC-ACSR	397.5 AAC-ACSR
	477 AAC-ACSR, 500 AAC	2/0 AAC-ACSR, SOL, 3/0 SOL		
	397.5 AAC-ACSR	3/0 AAC-ACSR, 4/0 SOL		
	336.4 AAC-ACSR	4/0 AAC-ACSR	477 AAC-ACSR, 500 AAC	500 AAC
	350 AAC	4/0 AAC-ACSR		
	266.8 AAC-ACSR	266.8 AAC-ACSR, 250 AAC		
2376750-7	N/A		556.5 AAC-ACSR	#2 AAC-ACSR, SOL
			477 AAC-ACSR, 500 AAC	1/0 AAC-ACSR, SOL
			397.5 AAC-ACSR	2/0 AAC-ACSR, SOL, 3/0 SOL
			336.4 AAC-ACSR	3/0 AAC-ACSR, 4/0 SOL
			350 AAC	3/0 AAC-ACSR, 4/0 SOL
			266.8 AAC-ACSR	4/0 AAC-ACSR

Part Number	Conductor Range with Insert		Conductor Range No/Remove Insert	
	Main Conductor	Tap Conductor	Main Conductor	Tap Conductor
2376750-8	N/A	556.5 AAC-ACSR	#4 SOL- STR	
		477 AAC-ACSR, 500 AAC	#2 AAC-ACSR, SOL	
		397.5 AAC-ACSR	1/0 AAC-ACSR, SOL	
		336.4 AAC-ACSR	2/0 AAC-ACSR, 3/0 SOL	
		350 AAC	2/0 AAC-ACSR, 3/0 SOL	
		266.8 AAC-ACSR	3/0 AAC-ACSR, 4/0 SOL	
2376750-9	N/A	556.5 AAC-ACSR	#6 AAC-ACSR, SOL	
		477 AAC-ACSR, 500 AAC	#4 AAC-ACSR, SOL	
		397.5 AAC-ACSR	#2 AAC-ACSR, SOL	
		336.4 AAC-ACSR	1/0 AAC-ACSR, SOL, 2/0 SOL	
		350 AAC	1/0 AAC-ACSR, SOL, 2/0 SOL	
		266.8 AAC-ACSR	2/0 ACSR, 3/0 SOL	
1-2376750-0	N/A	477 AAC-ACSR, 500 AAC	#6 AAC-ACSR, SOL	
		397.5 AAC-ACSR	#4 AAC-ACSR, SOL	
		336.4 AAC-ACSR	#2 AAC-ACSR, SOL	
		350 AAC	#2 AAC-ACSR, SOL	
		266.8 AAC-ACSR	1/0 AAC-ACSR, SOL, 2/0 SOL	
1-2376750-1	N/A	397.5 AAC-ACSR	#6 AAC-ACSR, SOL	
		336.4 AAC-ACSR	#4 AAC-ACSR, SOL	
		350 AAC	#4 AAC-ACSR, SOL	
		266.8 AAC-ACSR	#2 AAC-ACSR, SOL	
1-2376750-2	N/A	336.4 AAC-ACSR	#6 AAC-ACSR, SOL	
		350 AAC	#6 AAC-ACSR, SOL	
		266.8 AAC-ACSR	#4 ACSR	

Note: 30/7 ACSR Conductor stranding outside of standard range. Contact customer service for details. Tap Selection Chart covers common conductor combinations, refer to Sum of Diameter table below for full connector use range.

556 SERIES - SUM OF DIAMETER LIMITS SELECTION GUIDE (DIMENSIONS ARE IN INCHES)

Part Number	Insert	Sum of Diameters		Main Conductor (Large Groove)		Tap Conductor (Small Groove)	
		Max.	Min.	Max.	Min.	Max.	Min.
2376750-1	REMOVED	1.854	1.712	0.927	0.856	0.927	0.856
	USED	1.641	1.515	0.927	0.792	0.806	0.665
2376750-2	REMOVED	1.785	1.648	0.927	0.856	0.858	0.792
	USED	1.578	1.442	0.927	0.723	0.806	0.586
2376750-3	REMOVED	1.716	1.579	0.927	0.792	0.858	0.723
	USED	1.503	1.378	0.927	0.723	0.720	0.522
2376750-4	REMOVED	1.854	1.712	0.927	0.856	0.927	0.856
	USED	1.440	1.309	0.927	0.665	0.720	0.464
2376750-5	REMOVED	1.785	1.648	0.927	0.856	0.858	0.792
	USED	1.374	1.245	0.927	0.665	0.642	0.414
2376750-6	REMOVED	1.716	1.579	0.927	0.792	0.858	0.723
	USED	1.325	1.172	0.927	0.586	0.642	0.368
2376750-7	CONNECTOR DOES NOT UTILIZE INSERT	1.256	1.108	0.927	0.586	0.563	0.292
2376750-8		1.185	1.046	0.927	0.586	0.502	0.232
2376750-9		1.131	0.996	0.927	0.586	0.447	0.162
1-2376750-0		1.062	0.951	0.858	0.586	0.398	0.162
1-2376750-1		0.987	0.878	0.783	0.586	0.325	0.162
1-2376750-2		0.924	0.818	0.720	0.586	0.257	0.162

Note: Conductor diameters must fit within the Main and Tap diameter ranges. The sum of both conductor diameters must fit within the Min and Max range of the Sum of Diameters.

795 SERIES

AMPACT BAT ALUMINUM TAP SYSTEM SELECTION GUIDE

Part Number	Conductor Range with Insert		Conductor Range No/Remove Insert	
	Main Conductor	Tap Conductor	Main Conductor	Tap Conductor
2377042-1	795 AAC-26/7 715 24/7-30/19	477 30/7 556 AAC-26/7	795 AAC-26/7 715 24/7-30/19	715 30/19 795 AAC-26/7
	715 AAC-45/7 636 30/19-24/7	556 30/7 605 24/7-30/19 636 AAC-26/7		
	605 24/7-30/19	605 24/7-30/19		
2377042-2	795 AAC-26/7 715 24/7-30/19	397 30/7 477 AAC-26/7	795AAC	795AAC
	715 AAC-45/7 636 30/19-24/7	477 30/7 556 AAC-26/7	795 AAC-26/7 715 24/7-30/19	636 30/7-30/19 715 AAC-26/7
	605 24/7-30/19 556.5 30/7	556 18/1-30/7		
2377042-3	795 AAC-26/7 715 24/7-30/19	336 30/7 397 AAC-26/7	795 AAC-26/7 715 24/7-30/19	556 30/7 605 24/7-30/19 636 AAC-26/7
	715 AAC-45/7 636 30/19-24/7	477 AAC-26/7		
	605 24/7-30/19 556.5 30/7	477 AAC-30/7 556 AAC	715 AAC-45/7 636 30/19-24/7	636 30/7-30/19 715 AAC-45/7
2377042-4	795 AAC-26/7 715 24/7-30/19	336 AAC-26/7	795AAC	795AAC
	715 AAC-45/7 636 30/19-24/7	397 AAC-30/7		
	605 26/7-30/19	397 AAC	795 AAC-26/7 715 24/7-30/19	636 30/7-30/19 715 AAC-26/7
	605 24/7-30/19 556.5 30/7	397 AAC-30/7		
2377042-5	795 AAC-26/7 715 24/7-30/19	266 AAC-26/7	795 AAC-26/7 715 24/7-30/19	556 30/7 605 24/7-30/19 636 AAC-26/7
	715 AAC-45/7 636 30/19-24/7	336 AAC-30/7		
	605 24/7-30/19 556.5 30/7	336 AAC-30/7	715 AAC-45/7 636 30/19-24/7	636 30/7-30/19 715 AAC-45/7
	605 24/7 556.5 30/7	397 AAC		
2377042-6	795 AAC-26/7 715 24/7-30/19	1/0 AAC-ACSR 2/0 SOL	795 AAC-26/7 715 24/7-30/19	4/0 AAC-ACSR
	715 AAC-45/7 636 30/19-24/7	2/0 AAC-ACSR, SOL 3/0 SOL	715 AAC-45/7 636 30/19-24/7	266 AAC-26/7
	605 24/7-30/19 556.5 30/7	2/0 AAC-ACSR 3/0 SOL	605 24/7-30/19 556.5 30/7	266 AAC-26/7

Part Number	Conductor Range with Insert		Conductor Range No/Remove Insert	
	Main Conductor	Tap Conductor	Main Conductor	Tap Conductor
2377042-7	795 AAC-26/7 715 24/7-30/19	#2 AAC-ACSR 1/0 SOL	795 AAC-26/7 715 24/7-30/19	3/0 AAC-ACSR 4/0 SOL
	715 AAC-45/7 636 30/19-24/7	1/0 AAC-ACSR, SOL	715 AAC-45/7 636 30/19-24/7	4/0 AAC-ACSR
	605 24/7-30/19 556.5 30/7	1/0 AAC-ACSR 2/0 SOL	605 24/7-30/19 556.5 30/7	4/0 AAC-ACSR
2377042-8	N / A	N / A	795 AAC-26/7 715 24/7-30/19	2/0 AAC-ACSR 3/0 SOL
			715 AAC-45/7 636 30/19-24/7	3/0 AAC-ACSR 4/0 SOL
			605 24/7-30/19 556.5 30/7	3/0 AAC-ACSR 4/0 SOL
2377042-9	N / A	N / A	795 AAC-26/7 715 24/7-30/19	#4 AAC-ACSR, SOL #2 SOL
			715 AAC-45/7 636 30/19-24/7	#2 AAC-ACSR, SOL
			605 24/7-30/19 556.5 30/7	#2 AAC-ACSR 1/0 SOL
1-2377042-0	N / A	N / A	795 AAC-26/7 715 24/7-30/19	#6 AAC-ACSR, SOL
			721 3/7	#6 SOL
			715 AAC-45/7 636 30/19-24/7	#6 AAC-ACSR #4 SOL- ACSR
			605 30/7-30/19	#6 AAC-ACSR
			605 24/7-30/19 556.5 30/7	#4 AAC-ACSR, SOL #2 SOL

Note: Tap Selection Chart covers common conductor combinations, refer to Sum of Diameter table below for full connector use range.

795 SERIES - SUM OF DIAMETER LIMITS SELECTION GUIDE

(DIMENSIONS ARE IN INCHES)

Part Number	Insert	Sum of Diameters		Main Conductor (Large Groove)		Tap Conductor (Small Groove)	
		Max.	Min.	Max.	Min.	Max.	Min.
2377042-1	REMOVED	2.216	2.054	1.108	1.027	1.108	1.027
	USED	2.035	1.883	1.108	0.953	0.994	0.856
2377042-2	REMOVED	2.159	2.002	1.108	1.027	1.051	0.975
	USED	1.966	1.819	1.108	0.953	0.953	0.792
2377042-3	REMOVED	2.102	1.945	1.108	0.975	1.019	0.918
	USED	1.891	1.745	1.108	0.953	0.883	0.723
2377042-4	REMOVED	2.159	2.002	1.108	1.027	1.051	0.975
	USED	1.828	1.689	1.108	0.953	0.806	0.665
2377042-5	REMOVED	2.102	1.945	1.108	0.975	1.019	0.918
	USED	1.760	1.618	1.108	0.953	0.741	0.586
2377042-6	REMOVED	1.671	1.539	1.108	0.953	0.642	0.522
	USED	1.506	1.363	1.108	0.953	0.447	0.365
2377042-7	REMOVED	1.610	1.475	1.108	0.953	0.563	0.460
	USED	1.433	1.300	1.108	0.953	0.398	0.292
2377042-8	CONNECTOR DOES NOT UTILIZE INSERT	1.555	1.413	1.108	0.953	0.502	0.410
2377042-9		1.366	1.233	1.108	0.953	0.325	0.204
1-2377042-0		1.306	1.157	1.108	0.953	0.258	0.162

Note: Conductor diameters must fit within the Main and Tap diameter ranges. The sum of both conductor diameters must fit within the Min and Max range of the Sum of Diameters.

RELATED DOCUMENTS

Test Reports				
Tap Series	Current Cycling	Short Current	Mechanical Pull-out Test	Thermal Shock & Salt Spray Test
4/0	EDR-5815	502-161318	502-161317	502-161319
556	502-47530 (I)	502-47529 (I)	502-47532 (I)	502-47531 (I)
795	502-47536 (I)	502-47537 (I)	502-47534 (I)	502-47535 (I)

Installation Instructions	EPP-3823
Stirrup Datasheet	EPP-4168
Hot-stick Datasheet	EPP-3948
Metric Datasheet	EPP-4338

Learn more: [TE.com/energy](https://www.te-connectivity.com/energy)

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