



AMPACT BAT BOLT ACTUATED TAP CONNECTOR

795 SERIES - IMPERIAL SELECTION CHART

KEY FEATURES

- 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
- Maintains a constant force within the connection for the life of the connector, while compensating for thermal expansion or “creep”
- Solid stop for visual inspection of properly installed connector
- Industry leading electrical performance to ANSI C-119.4 Class AA
- Can be installed with standard hot sticks using wedge holder PN: 2401815-1

TE Connectivity’s (TE) AMPACT Bolt Actuated Tap (TAP) connector is part of TE’s legacy brand AMP utility connectors portfolio. AMPACT BAT uses wedge pressure technology that was pioneered by AMP 60 years ago to deliver maintenance-free performance over the lifetime of the connection. The AMPACT BAT is the second generation of TE’s wedge-pressure connectors which provides the proven performance of AMPACT fired-on wedge connectors without the requirement of a powder-actuated installation tool.

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.

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 connector develops and maintains 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 and the presence of an inhibitor in the electrical interfaces protects electrical contact spots from corrosive attack during their lifetime.

Customers can count on consistent, high quality products, driven by TE’s proven innovation and backed by our extraordinary customer support.

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Imperial Selection Guide for AMPACT BAT Aluminum Tap System

Test Reports	502-47537 (I) Electrical Short Circuit	502-47536 (I) Electrical CCT	502-47535 (I) Environmental	502-47534 (I) Tensile
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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)	795(AAC)	795(AAC)
	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)	795(AAC)	795(AAC)
	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 (SOL-ACSR) 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)
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 (SOL-ACSR)	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		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

AMPACT BAT BOLT ACTUATED TAP CONNECTOR 795 SERIES



2377042-9	N/A	795 (AAC-26/7) 715 (24/7-30/19)	#4 (SOL-ACSR) #2 SOL
		715 (AAC-45/7) 636 (30/19-24/7)	#2 (SOL-ACSR)
		605 (24/7-30/19) 556.5 (30/7)	#2 (AAC-ACSR) 1/0 SOL
1-2377042-0	N/A	795 (AAC-26/7) 715 (24/7-30/19)	#6 (SOL-ACSR)
		715 (45/7)	#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 (SOL-ACSR) #2 SOL

Sum of Diameter Limits Selection Guide

Dimensions shown in inches

Part Number	Sum of Diameters		Large Groove Main Conductor Diameter		Small Groove Tap Conductor Diameter	
	Max.	Min.	Max.	Min.	Max.	Min.
2377042-1 (no insert)	2.216	2.054	1.108	1.027	1.108	1.027
2377042-1 (with insert)	2.035	1.883	1.108	0.953	0.994	0.856
2377042-2 (no insert)	2.159	2.002	1.108	1.027	1.051	0.975
2377042-2 (with insert)	1.966	1.819	1.108	0.953	0.953	0.792
2377042-3 (no insert)	2.102	1.945	1.108	0.975	1.019	0.918
2377042-3 (with insert)	1.891	1.745	1.108	0.953	0.883	0.723
2377042-4 (no insert)	2.159	2.002	1.108	1.027	1.051	0.975
2377042-4 (with insert)	1.828	1.689	1.108	0.953	0.806	0.665
2377042-5 (no insert)	2.102	1.945	1.108	0.975	1.019	0.918
2377042-5 (with insert)	1.760	1.618	1.108	0.953	0.741	0.586
2377042-6 (no insert)	1.671	1.539	1.108	0.953	0.642	0.522
2377042-6 (with insert)	1.506	1.363	1.108	0.953	0.447	0.365
2377042-7 (no insert)	1.610	1.475	1.108	0.953	0.563	0.460
2377042-7 (with insert)	1.433	1.300	1.108	0.953	0.398	0.292
2377042-8*	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

*Connector does not utilize insert.

RELATED DOCUMENTS

- AMPACT BAT 336-556 Series Datasheet EPP-3769
- AMPACT BAT Hot Stick Accessories Datasheet EPP-3948
- AMPACT BAT Metric Selection Chart Datasheet EPP-3845
- Installation Instructions EPP-3823

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

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