

Penn-Union TP 4/0

Penn-Union TP-4/0 4/0 AWG Aluminum Terminal Plug Instruction Manual

Model: TP 4/0

INTRODUCTION

This manual provides essential information for the safe and correct installation and use of the Penn-Union TP-4/0 4/0 AWG Aluminum Terminal Plug. Please read these instructions thoroughly before proceeding with installation to ensure proper function and safety.

SAFETY INFORMATION

Important Safety Instructions

- Always disconnect power before installing or servicing electrical connectors.
- Installation should be performed by qualified personnel only.
- Use appropriate personal protective equipment (PPE) such as insulated gloves and safety glasses.
- Ensure all connections are secure and meet local electrical codes and standards.
- This product is designed for aluminum conductors. Do not use with dissimilar metals unless specifically rated for such applications.
- Observe the maximum temperature rating of 257°F (125°C).

WARNING: This product may expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

PRODUCT OVERVIEW

Product Description

The Penn-Union TP-4/0 is a high-quality aluminum terminal plug designed for connecting 4/0 AWG aluminum conductors. It ensures a reliable electrical connection in various industrial and scientific applications, functioning as a robust split-bolt type connector.



Image: Penn-Union TP-4/0 4/0 AWG Aluminum Terminal Plug. This image displays the aluminum terminal plug, highlighting its robust construction and design for secure electrical connections.

INSTALLATION INSTRUCTIONS

Installation Procedure

- Preparation:** Ensure the power supply to the circuit is completely disconnected and verified. Clean the ends of the 4/0 AWG aluminum conductors to be connected, removing any insulation, oxidation, or debris.
- Insert Conductor:** Loosen the bolt on the terminal plug sufficiently to allow insertion of the prepared aluminum conductor. Insert the conductor fully into the barrel of the terminal plug.
- Tighten Connection:** Using an appropriate wrench, tighten the bolt on the terminal plug. Apply sufficient torque to ensure a secure mechanical and electrical connection. Refer to manufacturer's torque specifications if available. Avoid over-tightening, which can damage the conductor or connector.
- Verify Connection:** Visually inspect the connection to ensure the conductor is fully seated and the bolt is tight. Perform continuity and resistance checks as required by local codes and safety standards.
- Insulate (if necessary):** If the connection is exposed, apply appropriate electrical insulation (e.g., electrical tape, heat shrink tubing) to cover the terminal plug and exposed conductor parts, ensuring compliance with safety standards.

MAINTENANCE

Maintenance Guidelines

The Penn-Union TP-4/0 terminal plug is designed for long-term reliability with minimal maintenance requirements.

- Periodically inspect connections for signs of corrosion, loosening, or overheating.
- If any issues are detected, disconnect power and re-secure or replace the connector as necessary.
- Keep the area around electrical connections clean and free from dust and moisture.

SPECIFICATIONS

Technical Specifications

Feature	Detail
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Model Number	TP 4/0
Conductor Size	4/0 AWG
Material	Aluminum
Contact Material	Aluminum
Terminal Type	Plug Connector
Temperature Rating	257°F (125°C)
Item Weight	1 Pound
Manufacturer	Penn-Union
ASIN	B00JV3IRK2



CUSTOMER SUPPORT





For technical assistance or further inquiries regarding the Penn-Union TP-4/0 Aluminum Terminal Plug, please contact Penn-Union customer service. Refer to the official Penn-Union website for current contact details.

Note: Warranty information is not available in the provided product data. Please consult the manufacturer's official documentation or website for current warranty terms.

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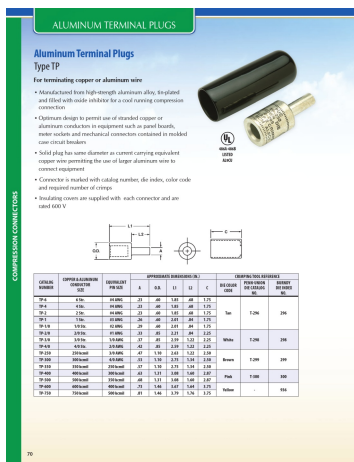
Related Documents - TP 4/0

	<p>BLUA-4/0S5-1 Penn-Union Compression Lug Cut Sheet</p> <p>Detailed technical specifications, agency approvals, and dimensional drawing link for the Penn-Union BLUA-4/0S5-1 standard barrel compression lug. Features include 35 kV rating, 4/0 AWG conductor size, and tin-plated aluminum construction.</p>
	<p>Penn-Union BLUA-025S2-1 Compression Lug - Technical Specifications AutomationDirect</p> <p>Detailed technical specifications, agency approvals, and dimensional drawing link for the Penn-Union BLUA-025S2-1 compression lug. This tin-plated aluminum lug is rated for 35 kV, supports 250 MCM conductors, and features a standard barrel with a 3/8in mounting bolt.</p>

	<p>Penn-Union BLUA-4S3-1 Compression Lug - Technical Specifications</p> <p>Technical specifications and agency approvals for the Penn-Union BLUA-4S3-1 compression lug. Features include tin-plated aluminum construction, 35 kV rating, 1-hole, 4 AWG conductor size, and prefilled oxide inhibitor compound.</p>
	<p>Penn-Union BLUA-1/0D3-1 Compression Lug - Technical Specifications AutomationDirect</p> <p>Detailed cut sheet for the Penn-Union BLUA-1/0D3-1 compression lug. Features include tin-plated aluminum, 35 kV rating, 1/0 AWG conductor size, 2-hole mounting, and AL9CU dual rating. Find technical specs, agency approvals, and dimensional drawing links.</p>
	<p>Penn-Union BLUA-1S-1 Compression Lug - Technical Specifications</p> <p>Detailed technical specifications for the Penn-Union BLUA-1S-1 compression lug, including material, voltage rating, conductor size, agency approvals, and dimensional drawing links.</p>
	<p>Penn-Union Mechanical Connectors: Lugs, Compression Lugs, and Crimp Tools</p> <p>Comprehensive guide comparing Penn-Union mechanical and compression lugs, detailing the BLUA series of aluminum compression lugs (1-hole and 2-hole tongue), their specifications, dimensions, and installation instructions. Includes information on hand-operated crimp tools and agency approvals.</p>

Documents - Penn-Union – TP 4/0

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100	CSA 100	AL-122	UL 100	CSA 100	AL-123	UL 100	CSA 100	AL-124	UL 100	CSA 100	AL-125	UL 100	CSA 100	AL-126	UL 100	CSA 100	AL-127	UL 100	CSA 100	AL-128	UL 100	CSA 100	AL-129	UL 100	CSA 100	AL-130	UL 100	CSA 100	AL-131	UL 100	CSA 100	AL-132	UL 100	CSA 100	AL-133	UL 100	CSA 100	AL-134	UL 100	CSA 100	AL-135	UL 100	CSA 100	AL-136	UL 100	CSA 100	AL-137	UL 100	CSA 100	AL-138	UL 100	CSA 100	AL-139	UL 100	CSA 100	AL-140	UL 100	CSA 100	AL-141	UL 100	CSA 100	AL-142	UL 100	CSA 100	AL-143	UL 100	CSA 100	AL-144	UL 100	CSA 100	AL-145	UL 100	CSA 100	AL-146	UL 100	CSA 100	AL-147	UL 100	CSA 100	AL-148	UL 100	CSA 100	AL-149	UL 100	CSA 100	AL-150	UL 100	CSA 100	AL-151	UL 100	CSA 100	AL-152	UL 100	CSA 100	AL-153	UL 100	CSA 100	AL-154	UL 100	CSA 100	AL-155	UL 100	CSA 100	AL-156	UL 100	CSA 100	AL-157	UL 100	CSA 100	AL-158	UL 100	CSA 100	AL-159	UL 100	CSA 100	AL-160	UL 100	CSA 100	AL-161	UL 100	CSA 100	AL-162	UL 100	CSA 100	AL-163	UL 100	CSA 100	AL-164	UL 100	CSA 100	AL-165	UL 100	CSA 100	AL-166	UL 100	CSA 100	AL-167	UL 100	CSA 100	AL-168	UL 100	CSA 100	AL-169	UL 100	CSA 100	AL-170	UL 100	CSA 100	AL-171	UL 100	CSA 100	AL-172	UL 100	CSA 100	AL-173	UL 100	CSA 100	AL-174	UL 100	CSA 100	AL-175	UL 100	CSA 100	AL-176	UL 100	CSA 100	AL-177	UL 100	CSA 100	AL-178	UL 100	CSA 100	AL-179	UL 100	CSA 100	AL-180	UL 100	CSA 100	AL-181	UL 100	CSA 100	AL-182	UL 100	CSA 100	AL-183	UL 100	CSA 100	AL-184	UL 100	CSA 100	AL-185	UL 100	CSA 100	AL-186	UL 100	CSA 100	AL-187	UL 100	CSA 100	AL-188	UL 100	CSA 100	AL-189	UL 100	CSA 100	AL-190	UL 100	CSA 100	AL-191	UL 100	CSA 100	AL-192	UL 100	CSA 100	AL-193	UL 100	CSA 100	AL-194	UL 100	CSA 100	AL-195	UL 100	CSA 100	AL-196	UL 100	CSA 100	AL-197	UL 100	CSA 100	AL-198	UL 100	CSA 100	AL-199	UL 100	CSA 100	AL-200	UL 100	CSA 100
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100	AL-211	UL 100	CSA 100	AL-212	UL 100	CSA 100	AL-213	UL 100	CSA 100	AL-214	UL 100	CSA 100	AL-215	UL 100	CSA 100	AL-216	UL 100	CSA 100	AL-217	UL 100	CSA 100	AL-218	UL 100	CSA 100	AL-219	UL 100	CSA 100	AL-220	UL 100	CSA 100	AL-221	UL 100	CSA 100	AL-222	UL 100	CSA 100	AL-223	UL 100	CSA 100	AL-224	UL 100	CSA 100	AL-225	UL 100	CSA 100	AL-226	UL 100	CSA 100	AL-227	UL 100	CSA 100	AL-228	UL 100	CSA 100	AL-229	UL 100	CSA 100	AL-230	UL 100	CSA 100	AL-231	UL 100	CSA 100	AL-232	UL 100	CSA 100	AL-233	UL 100	CSA 100	AL-234	UL 100	CSA 100	AL-235	UL 100	CSA 100	AL-236	UL 100	CSA 100	AL-237	UL 100	CSA 100	AL-238	UL 100	CSA 100	AL-239	UL 100	CSA 100	AL-240	UL 100	CSA 100	AL-241	UL 100	CSA 100	AL-242	UL 100	CSA 100	AL-243	UL 100	CSA 100	AL-244	UL 100	CSA 100	AL-245	UL 100	CSA 100	AL-246	UL 100	CSA 100	AL-247	UL 100	CSA 100	AL-248	UL 100	CSA 100	AL-249	UL 100	CSA 100	AL-250	UL 100	CSA 100	AL-251	UL 100	CSA 100	AL-252	UL 100	CSA 100	AL-253	UL 100	CSA 100	AL-254	UL 100	CSA 100	AL-255	UL 100	CSA 100	AL-256	UL 100	CSA 100	AL-257	UL 100	CSA 100	AL-258	UL 100	CSA 100	AL-259	UL 100	CSA 100	AL-260	UL 100	CSA 100	AL-261	UL 100	CSA 100	AL-262	UL 100	CSA 100	AL-263	UL 100	CSA 100	AL-264	UL 100	CSA 100	AL-265	UL 100	CSA 100	AL-266	UL 100	CSA 100	AL-267	UL 100	CSA 100	AL-268	UL 100	CSA 100	AL-269	UL 100	CSA 100	AL-270	UL 100	CSA 100	AL-271	UL 100	CSA 100	AL-272	UL 100	CSA 100	AL-273	UL 100	CSA 100	AL-274	UL 100	CSA 100	AL-275	UL 100	CSA 100	AL-276	UL 100	CSA 100	AL-277	UL 100	CSA 100	AL-278	UL 100	CSA 100	AL-279	UL 100	CSA 100	AL-280	UL 100	CSA 100	AL-281	UL 100	CSA 100	AL-282	UL 100	CSA 100	AL-283	UL 100	CSA 100	AL-284	UL 100	CSA 100	AL-285	UL 100	CSA 100	AL-286	UL 100	CSA 100	AL-287	UL 100	CSA 100	AL-288	UL 100	CSA 100	AL-289	UL 100	CSA 100	AL-290	UL 100	CSA 100	AL-291	UL 100	CSA 100	AL-292	UL 100	CSA 100	AL-293	UL 100	CSA 100	AL-294	UL 100	CSA 100	AL-295	UL 100	CSA 100	AL-296	UL 100	CSA 100	AL-297	UL 100	CSA 100	AL-298	UL 100	CSA 100	AL-299	UL 100	CSA 100	AL-300	UL 100	CSA 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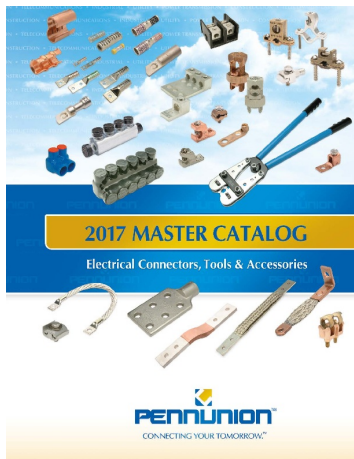


[\[pdf\]](#) Catalog

Catalog Page TP 3 0 Penn Union Pigtail Adapters tp cp docs galco techdoc penu |||

COMPRESSION CONNECTORS ALUMINUM TERMINAL PLUGS Aluminum

Terminal Plugs Type TP For terminating copper or aluminum wire Manufactured from high-strength aluminum alloy, tin-plated and filled with oxide inhibitor for a cool running compression connection Optimum design to permit use of stranded cop...
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2017 Master Catalog New! Penn Union BA 312 BBCU 43 FL USESI 938137 catalog assets usesi product media catalogs

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[\[pdf\]](#) Instructions Catalog

Tools for industrial electrical applications Thomas and Betts Cosses en cuivre un trou conducteur Selon les instructions fournies avec le produit la surface acier doit être bien nettoyée avant installation

Connecteur fabriqué d moulé 51680 Catalog cisco resources B6E

Thomas Betts LE POUVOIR EN MAIN Depuis plus de 70 ans, les entrepreneurs en électricité, les directeurs d'usines et les ingénieurs-conseils font confiance aux composants électriques Thomas Betts. Aujourd'hui, Thomas Betts offre une gamme complète de produits et services axés sur le marché et connus po...

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For over 70 years, Canadian electrical contractors, plant engineers and engineering consultants have placed their trust in Thomas & Betts electrical components. Today Thomas & Betts offers a complete package of market-driven products and services designed to give you the power to succeed in today's economy.

THE POWER OF TAB ENGINEERED PRODUCTS AND SERVICES
Our products and services continue to set new standards for quality, reliability and innovation.

- Highly-focused sales, product support and customer service teams dedicated to serving the industrial MRO and OEM markets
- Guaranteed, competitive pricing
- The broadest offering of first-price, brand name products available from one manufacturer
- "One order, one shipment" for thousands of standard products through Thomas & Betts and your Signature Service distributor
- Reduced lead time on critical products through your Signature Service distributor
- Technical support via phone, fax on demand and the Internet
- ISO-certified manufacturing — quality engineering and manufacturing
- Local and national inventory support
- T&B Tool Lease program — the tools you need today without tomorrow's investment



[\[pdf\]](#) User Manual Catalog

Tools for industrial electrical applications Thomas and Betts Compression Connectors offering including manual hydraulic battery operated compression tools You ll also find a comprehensive die selection chart that 57736 Catalog cesco resources D93

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[\[pdf\]](#) Installation Guide Catalog

PennUnion Catalog 2010 olsonm Page Penn Union TPO 350 Alum Terminal Plug Rexel USA pennunion
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ALUMINUM TERMINAL PLUG TYPES TP TPO For terminating copper or aluminum
wire 486B LISTED AL9CU Optimum design to permit use of stranded copper or
aluminum conductor in equipment boards and boxes with mechanical connectors.
Type TPO offset pin designed for use in limited spaces in equipment board...

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229 Waterford Street • Edinboro, PA 16412-2398
Phone (814) 734-1631 • FAX (814) 734-4946

ALUMINUM TERMINAL PLUG • TYPES TP & TPO
For terminating copper or aluminum wire



**LISTED
ALSCU**

Optimum design to permit use of stranded copper or aluminum conductor in equipment boards and boxes with mechanical connectors.

Type TPO offset pin designed for use in limited spaces in equipment boards and under hoses.

The plug is made of aluminum, is-plated and filled with CuAlP for a cool running compression connection. A cover is provided for quick insulation of the compression barrel. All required information is marked on the plug.

[illegible]

OFFSET STYLE

TPD-210	210 Str	418	30	2.7	1.3				
TPD-310	310 Str	473	37	85	2.8	1.25	2.25	White	B-290
TPD-410	410 Str	528	42						T-293
TPD-500	200 MACM	519	27		2.5	1.50			
TPD-500	300 MACM	535	33	1.10	3.1	1.47	2.50	Green	D-399
TPD-550	200 MACM	601	37						T-299
TPD-550	400 MACM	728	63	1.30	3.4	1.69	2.67	Pink	B-330
TPD-500	500 MACM	813	88						T-303
TPD-500	600 MACM	903	79	1.48	4.6	1.75	3.75	Yellow	D-436
TPD-500	700 MACM	920	79						