

Stackable Lugs with Interlocking, Anti-Rotation Mechanism

Applications:

Multiple terminations on a singular stud in a high vibration environment such as: starter motors on diesel engines and electrical motors on compressors or pumps

Customer Concern:

A manufacturer of industrial trucks needed to improve the long-term reliability of electrical components. A typical application includes multiple lugs stacked on a single stud. The inherent vibration caused the multiple stacked lugs to rotate and become loose, which created poor electrical connections resulting in failures, electrical shorts and warranty claims.

PANDUIT Solution:

Stackable Lugs with Interlocking, Anti-Rotation Mechanism
PANDUIT developed a tubular terminal with an interlocking mechanism that allows the terminals to be stacked and oriented in 45° increments. When a fastener is tightened down on the stud, the assembly securely locks together preventing rotation of the parts. In-house reliability testing verified the enhanced performance of the anti-rotation feature.

Stackable lugs use the same barrel dimensions as standard parts and do not require special crimp tooling.

Application Considerations:

Consult factory to determine if the stackable feature is available for your current size of lug.

Ensure that interlocking anti-rotation mechanisms between lugs are fully engaged before securing the fastening nut. These lugs can be used in non-stacking applications and are interchangeable with lugs that do not have the interlocking anti-rotation feature.



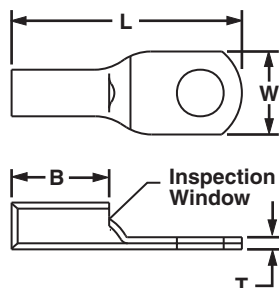
Stackable Lugs Showing Top and Bottom Features of Interlocking, Anti-Rotation Mechanism



Three Stackable Lugs Fastened to a Bolt in Different Orientations

Stackable Lugs with Interlocking, Anit-Rotation Mechanism

Loose Piece



Part Number	Wire Range	Stud Hole Size	Tongue Width	Figure Dimensions (In.)			Compatible Installation Tools
			W	L	B	T	
S8-38LR	8 AWG	3/8"	.60	1.40	.40	.05	CT-1700, CT-720, CT-930, CT-2001, CT-2002, CT-2931, CT-2940
S6-38LR	6 AWG	3/8"	.62	1.50	.48	.06	
S4-38LR	4 AWG	3/8"	.62	1.50	.48	.07	
S2-38LR	1 – 2 AWG	3/8"	.70	1.70	.59	.11	
S2-12LR		1/2"	.79	1.90	.59	.09	
S1/0-38LR	1/0 AWG	3/8"	.76	1.70	.58	.12	
S1/0-12LR		1/2"	.82	1.90	.58	.12	
S2/0-38LR	2/0 AWG	3/8"	.85	1.90	.66	.13	
S2/0-76LR		7/16"	.85	2.10	.66	.13	
S2/0-12LR		1/2"	.85	2.10	.66	.13	
S3/0-38LR	3/0 AWG	3/8"	.96	2.10	.83	.13	
S3/0-76LR		7/16"	.96	2.30	.83	.13	
S3/0-12LR		1/2"	.96	2.30	.83	.13	
S4/0-38LR	4/0 AWG	3/8"	1.06	2.30	.91	.14	
S4/0-76LR		7/16"	1.06	2.50	.91	.14	
S4/0-12LR		1/2"	1.06	2.50	.91	.14	
S250-38LR	250 kcmil	3/8"	1.17	2.60	1.01	.14	
S250-76LR		7/16"	1.17	2.60	1.01	.14	
S250-12LR		1/2"	1.17	2.60	1.01	.14	

Notes:

1. Consult factory for availability of locking feature on other tubular terminal sizes.
2. UL Listed with code copper conductors for applications up to 35kv, file E52164
3. Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V
4. CSA Certified for applications up to 600 V, file LR31212
5. Material: High conductivity seamless copper tubing, tin-plated
6. RoHS compliant
7. For use with copper cables only

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