



Connectors & Lugs



JB Jointing Supplies – 100+ yrs Collective HV experience. Setting the standards higher for cable accessories, Helping you connect the future!







Suitable For: Copper (Cu)/ Aluminium (Al) Conductors, Bi-metal surface and core – hard drawn and flexible cable designs available.

JBJS lugs/connectors are designed and manufactured to the requirements of the applicable Australian Standards AS/NZS 4325.1 and/or AS 1154.1 whether they are manufactured in Australia or Internationally; this applies to all products manufactured or modified under JBJS banner in the manufacturing division. This includes, but is not limited to, all Cu, Al and Bi-Metal compression and/or Mechanical lugs and connectors up to 36KV.

Jono Viney Technical Director Our innovative shear bolt design makes for quick and easy installation.

Saving critical time on those critical jobs!

Designed to shear of at the specified torque (Nm) with any tightening method including impact drills



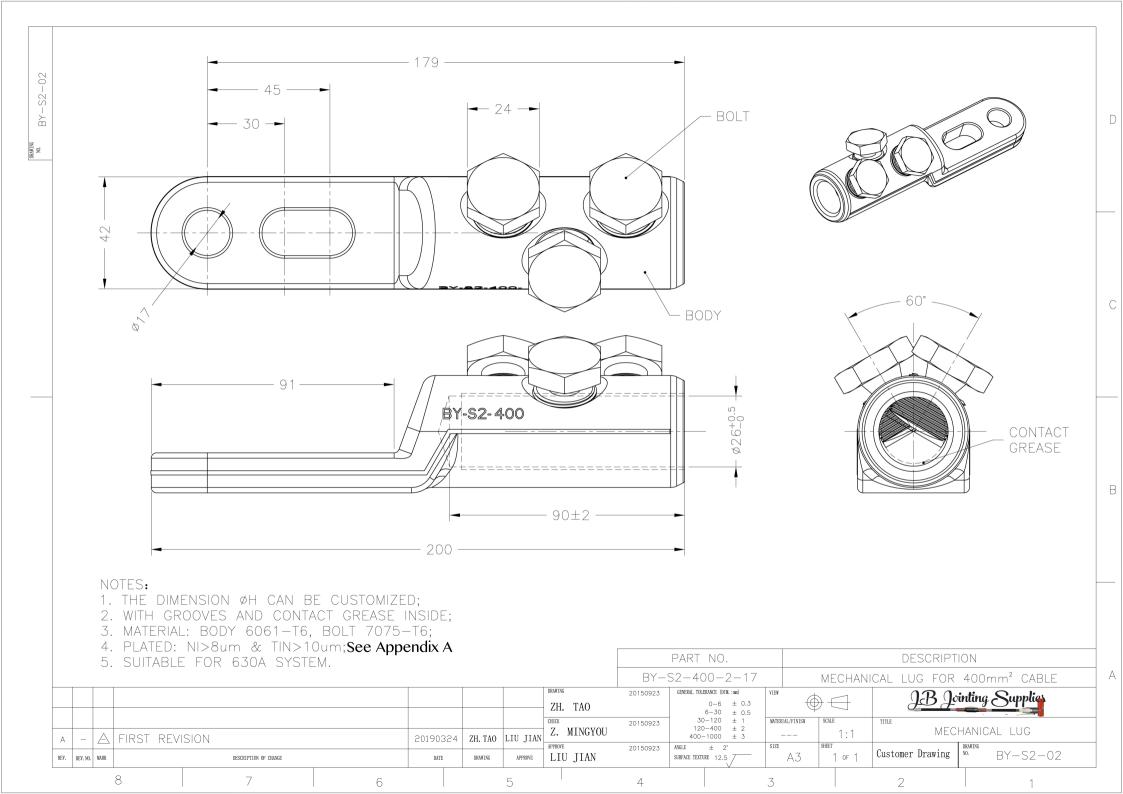
www.jbjs.com.au

MECHANICAL LUG

- **Quality IEC Products**
- 5yr Product Warranty
- **Experienced Consultancy**
- Prompt Service
- **3**rd Generation in the HV Industry

- Smooth Installations
- Certified Testing
- Professional Commissioning
- Competitive Prices
- **100**⁺ Yrs Collective HV Experience





MECHANICAL LUG





- 1. Cut the cable ends to achieve a straight and right-angle cut.
- 2. Remove the insulation according to the dimension as bellow.

Range	Conductor Section	Conductor L	Bolt No.	
	(mm²)	(±2mm)		
25/50	25,35,50	32	2	
70/120	70,95,120	42	2	
150/240	150,185,240	52	2	
300/400	300,400	88	3	

- 3. Wire brush conductors. Insert conductors so that the insulation butts up with the end of the connector. See Fig.1.
- ★ 4. Hand-tighten the shear bolts fixing the conductors in place.
 - By half turns, alternatively tighten the shear bolts with a socket wrench following the sequence given in the Fig2, until shear off. See Fig3.
 - 6. Re-arrange conductors after installation if required.
 - 7. Smooth off any sharp edges of protruding bolts where appropriate. Fill semi-conductive adhesive(electric stress controlling tape) if there's pit at bolt area. See Fig.4.

^{*}Note. Impact drill / Power tools are approved methods for JBJS shear bolt products. As shown in image. Signed by Jonathan Viney - Technical Director



Observation:

It could be possible that a bolt shears and the top section is retained in the connector.

It is possible to remove the top section of the screw from the connector body by unscrewing the bolt head. This is a characteristic of multi-shear bolts and does not affect the performance.



Fig. 1 Insert Conductor in Lug



Fig.3 Shear off bolts



Fig.2 Tighten Sequence



Fig.4 Smooth off any sharp edges



APPENDIX A



Fischerscope

XRAY XDL 210

Date: 25/03/2019	Time: 16:29:41	Results		
Mean :	10.98 µ m		8.132 µ m	
Standard deviation:	0.165 μ m		2.975 µ m	
C.O.V (%)	0.92	2.28		
Range:	0.423 µ m		0.100 µ m	
Number of readings:	5	5		
Min Reading:	10.8 µ m		8.11 µ m	
Max Reading:	11.2 µ m		8.21 μ m	
Measuring time:	15 sec			
Operator:				

Product:		•	63 / Sn/NiP/Al		Dir:	FischBlock:	86
Application:		ition:	63 / Sn/NiP/Al				
n=	1	Sn 1 =	10.9	μ m	NiP 2=	8.11	μ m
n=	2	Sn 1 =	10.9	μm	NiP 2=	8.21	μm
n=	3	Sn 1 =	11.2	μm	NiP 2=	8.14	μm
n=	4	Sn 1 =	11.1	μ m	NiP 2=	8.16	μ m
n=	5	Sn 1 =	10.8	μm	NiP 2=	8.13	μm





For more information please call.

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