Superlock

For SC/GZ Guy Strands

The range of superlock fittings have been designed as an easy and efficient way of terminating stays back onto themselves in pole-top applications. The finished application has a clean low profile, ensuring a very high quality final assembly.

The superlock range has the same full-rated strength of the stay wire and has been proven to operate under all conditions including high impact motor vehicle collisions. They;

- will not deteriorate
- replace cumbersome bolted methods
- are high strength and impact resistant
- are quickly and easily applied
- are neat and cleanly finished

Part Number	Conductor Stranding	Conductor Diameter (mm)	Colour Code
GSC-055	3/2.75	5.91	White
GSC-060	7/2.00	6.00	Yellow
GSC-075	7/2.50	7.50	Blue
GSC-083	7/2.75	8.25	White
GSC-100	7/3.25 19/2.00	10.00	Orange/Yellow
GSC-113	7/3.75	11.25	Black
GSC-120	7/4.00	12.00	Brown
GSC-138	19/2.75	13.75	White
GSC-163	19/3.25	16.25	Orange

For Application Procedures, visit the PLP website.
www.preformed.com.au

SAFETY CONSIDERATIONS

- This product is intended for a single (one-time) use and for the specified application, although it may be re-applied twice for retensioning within 90 days from initial installation.
- Do not modify this product in any way.
- This product is intended for use by qualified linesmen only.
- When working in the area of energised line with this product, extra care should be taken to prevent accidental electrical contact.
- For proper performance and personal safety, be sure to select the proper size PREFORMED™ products before application.
- PREFORMED™ products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

Application Procedure & Safety Considerations

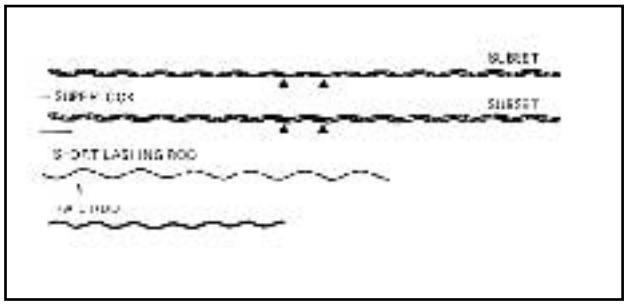
PREFORMED LINE PRODUCTS

SUPERLOCKS

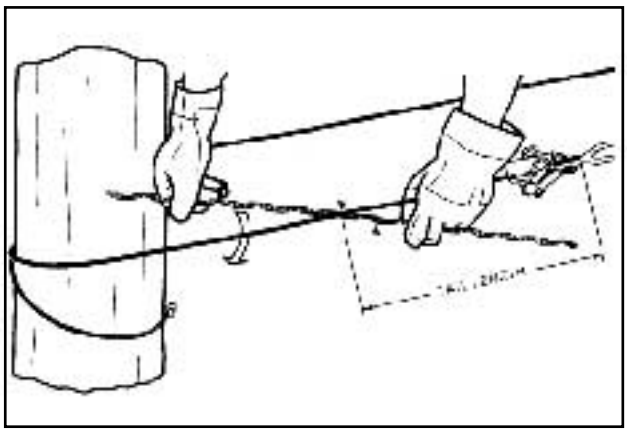
Completely read and understand this procedure before applying products. Special attention should be given to the Safety Considerations located on the last page. We advise the reader to review those considerations now, and then again during the general review of this procedure

Dead Ending Guy W ires with SUPERLOCKS

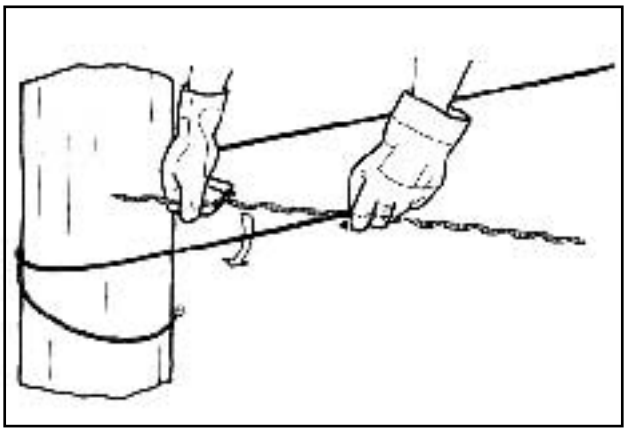
Superlocks are used where the guy is wrapped around the pole rather than using eyebolts and thimbles. Full strength of all strand sizes is obtained. NOTE: When winding on Superlocks, always grasp subset as close as possible to point of application (to minimise likelihood of permanent distortion). At the same time bend outwards and away from strand. These instructions are for right hand lay strands, simply reverse direction of winding when using fittings for left hand lay strands.



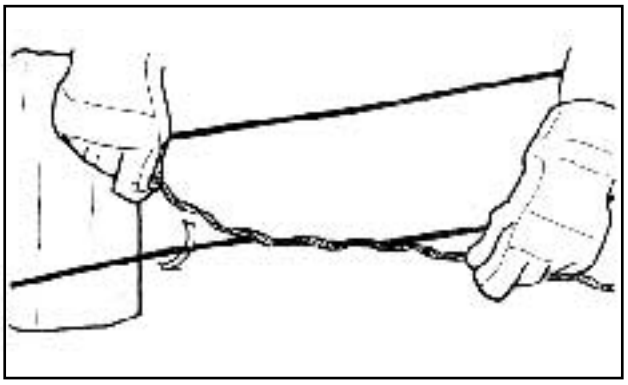
1) Superlocks are made up of two subsets of wires. A tail may be left for future retensioning - Fig.13. These instructions shows a Lashing Rod being used to lash the tail to the guy wire. Alternatively, a Tail Rod may be used - Fig. 18 and 19.



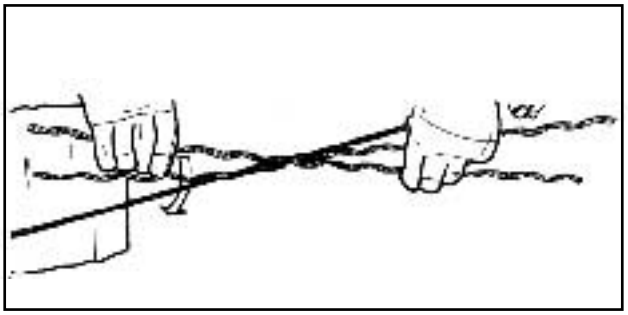
2) Position one subset of Superlock alongside guy wire according to length of tail required, if any, for future retensioning. Start application at cross-over mark furthest from tail end.



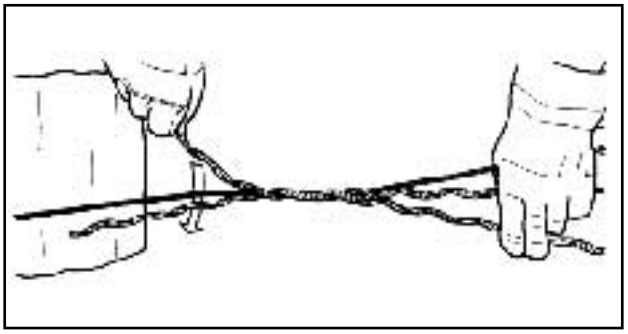
3) Starting point when there is no tail.



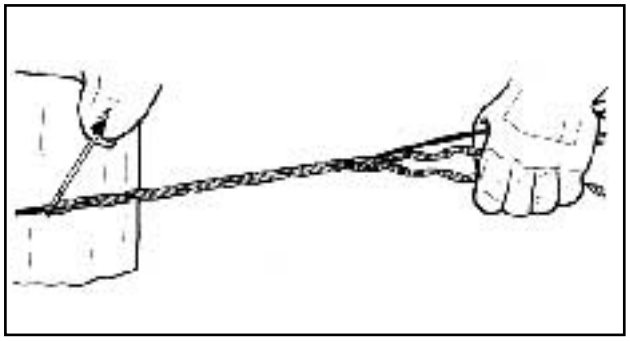
4) Wind from this cross-over mark towards pole for about two pitches.



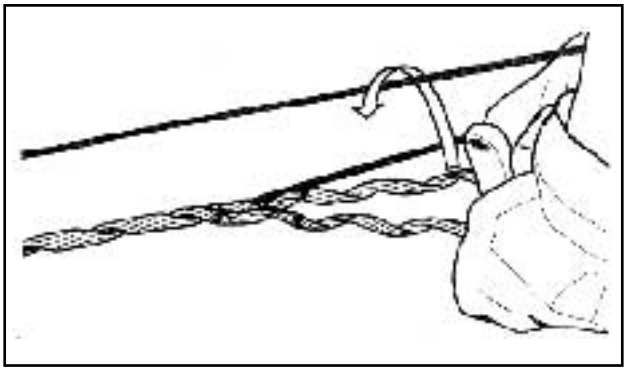
5) Take other subset and line up cross-over marks.



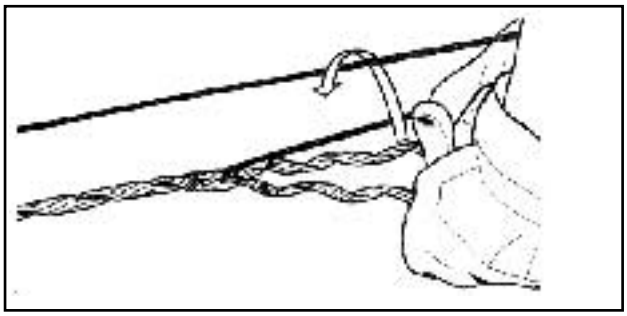
6) Wind on for same distance as first subset.



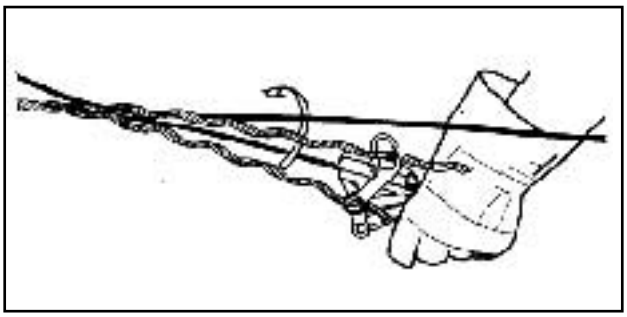
7) Complete application of these subset to end of each leg, snapping ends firmly into position on guy wire. If necessary, ends of each leg of large Superlocks can be split into two for easier application.
If necessary, working from leading side, use only a thin-blade screw driver to ease wires into place. Never use pliers.



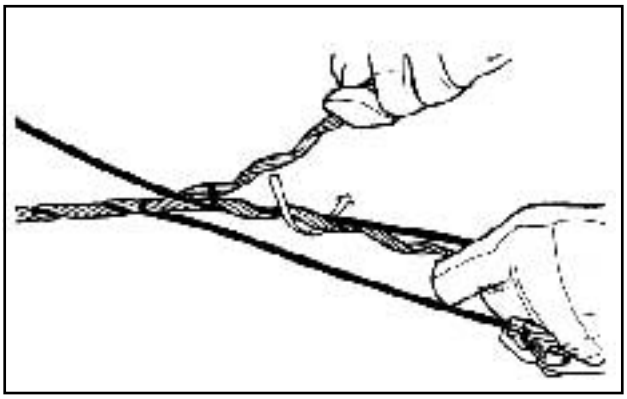
8) Hook leading subset around guy at cross-over mark.



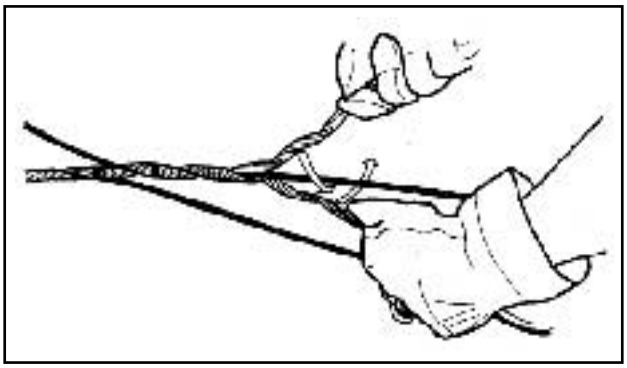
9) Wind on two or three pitches as in Fig. 4



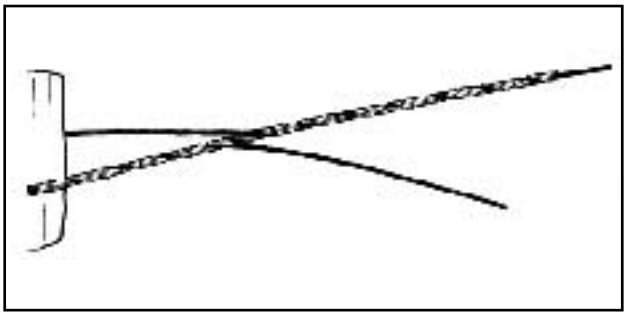
10) Pull other subset between tail and guy.



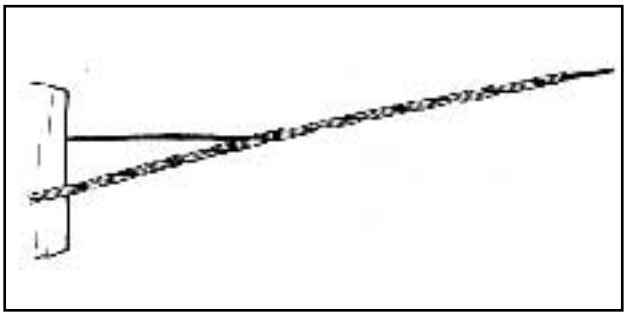
11) Align crossover mark as shown



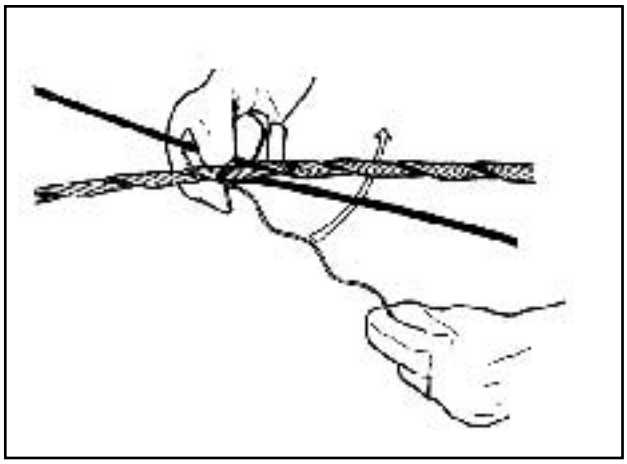
12) Wind on to the same point as first subset and complete application to end of each leg as in Fig. 13.



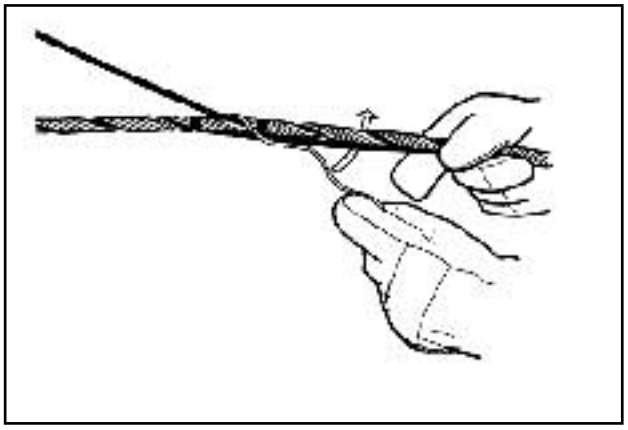
13) Assembled Superlock with tail.



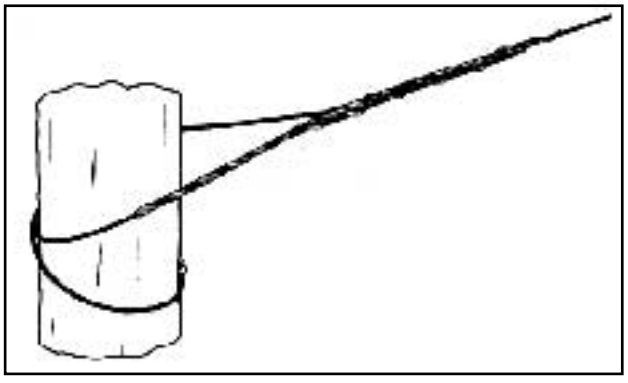
14) Assembled Superlock with no tail. Finished application



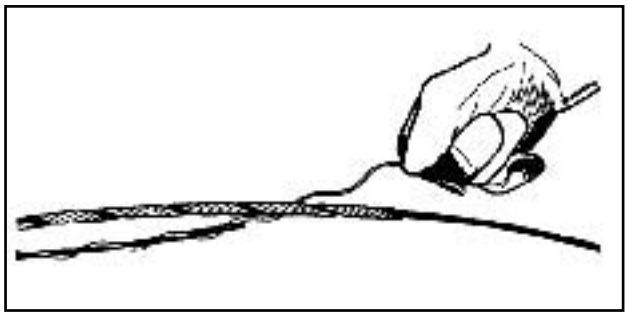
15) Start applying lashing Rod.



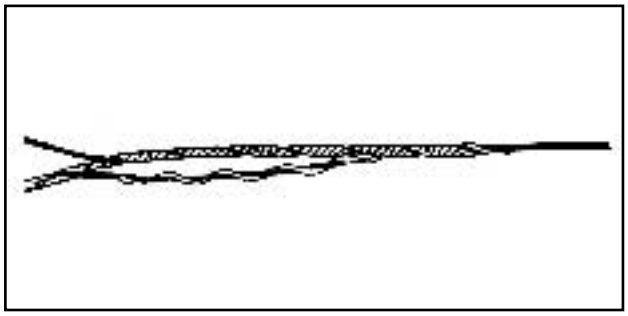
16) Wind on over Superlock and tail.



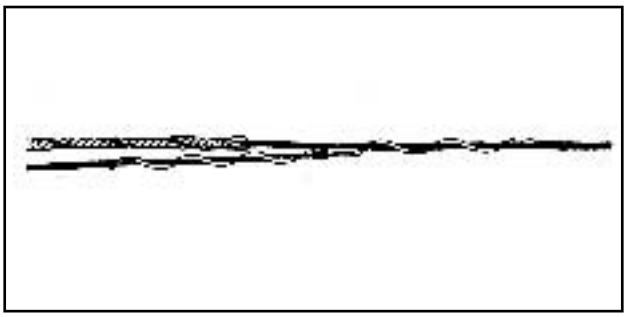
17) Finished application with Lashing Rod.



18) If Tail Rod is used, apply Rod as shown. (tail can extend beyond Superlock.)



19) Finished application with Short Tail.



20) Finished application with Long Tail.

SAFETY CONSIDERATIONS

1) For proper performance and personal safety be sure to select the proper size Superlocks.

2) Superlocks are precision devices. To ensure tight assembly, they should be stored in cartons under cover and handled carefully.

3) This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures and restrictions may result in personal injury.

4) When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.

5) This product is intended for use by trained linesmen only. This product should not be used by any one who is not familiar with and trained in the use of it.

PREFORMED
LINE PRODUCTS
(AUSTRALIA) PTY LTD
A.B.N. 27 004 533 877

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Fax: (02) 8805 0090 intl 61 2 8805 0090
Email: plpaus@preformed.com.au
Web: www.preformed.com.au

NOTES

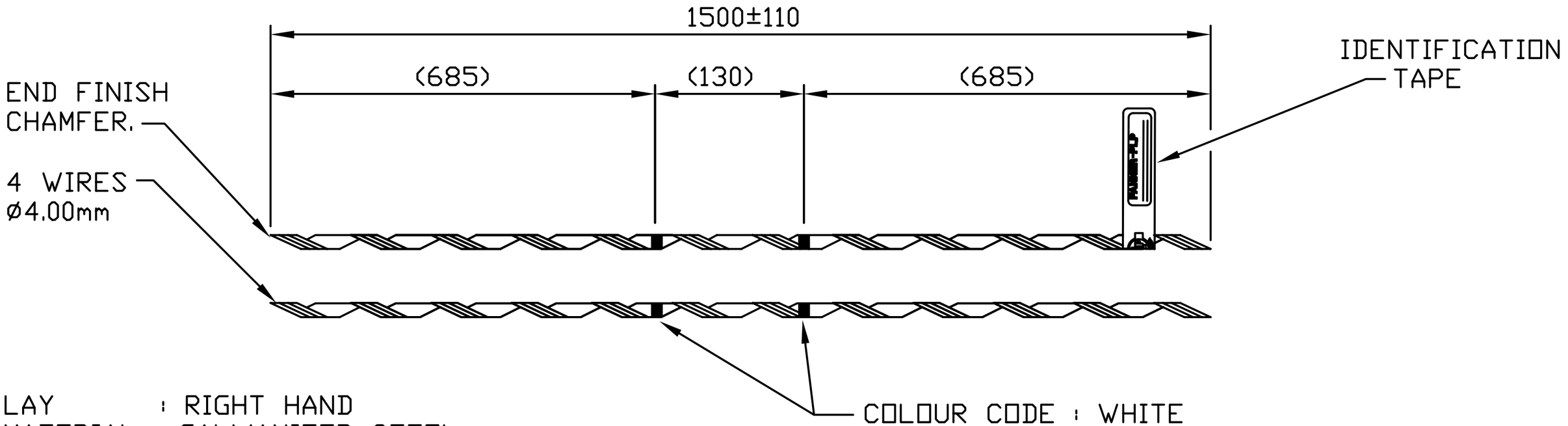
1 ALL DIMENSIONS IN MILLIMETRES

2 TOLERANCES UNLESS OTHERWISE STATED:-
- a. HOLE DIAMETER ±0.5mm
- b. LINEAR DIMS. UP TO 30mm ±1.5mm
- c. LINEAR DIMS. OVER 30mm ±5% UP TO A MAX. OF 5mm.

3. BRACKETED DIMS. DO NOT AFFECT INTERCHANGEABILITY OR COUPLING & ARE FOR GUIDANCE ONLY.

4. MATERIAL TO AS1154.

5. GALVANIZING TO AS1650.



LAY : RIGHT HAND
MATERIAL : GALVANIZED STEEL

NUMBER OF SETS : 2

PRODUCT TAPE COLOUR : WHITE

TAPE REQUIRED.

A	CW	1/5/91		CAT. NO: GSC-138 GALVANIZED STEEL SUPERLOCK				FANNER-PLP PTY. LTD.	
CHK								ISSUE A	DRAWING NUMBER 072-004-RD
INITIAL ISSUE DSC NO._____				DRAWN CW	PASSED	DATE 1/5/91	SCALE N.T.S.		

PLP (AUSTRALIA) PTY LTD

ENGINEERING DEPARTMENT

DATE – 6TH SEPTEMBER 2017

TYPE TEST REPORT NO: T9745
TEST REFERENCE NO: T17/008

MECHANICAL STRENGTH TYPE TEST

ON:

GALVANIZED STEEL SUPER LOCK
FOR 19/2.75mm SC/GZ CONDUCTOR

(PLP Aust. Part No. – GSC-138)

Testing Officer: _____ (Jose-elmer Simeon)

Approved by: _____ (Florian de Celis, Compliance Manager)

Date Approved: 11/09/2017

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THE QUALITY SYSTEM OF PLP AUSTRALIA HAS BEEN CERTIFIED TO
AS/NZS ISO9001:2015 BY GLOBAL MARK REGISTER QUALITY ASSURANCE