

# PREFORMED™ Splice



## For AAC, AAAC and Smaller Ø ACSR Conductors



Part Number	Conductor Stranding	Conductor Diameter (mm)	Colour Code
AFS-053	7/1.75	5.25	Purple
AFS-068	7/2.25	6.75	Brown
AFS-075	7/2.50	7.50	Blue
AFS-078	7/2.60	7.80	Orange
AFS-083	7/2.75	8.25	Red
AFS-090	7/3.00	9.00	Red
AFS-090-AW	4/3/3.00	9.00	Red
AFS-102	7/3.40	10.20	Purple
AFS-105	19/2.10	10.50	Blue
AFS-113	7/3.75	11.25	Black
AFS-113-AW	4/3/3.75	11.25	Black
AFS-135	7/4.50	13.50	Green
AFS-143	7/4.75	14.25	Blue
AFS-163	19/3.25	16.25	Orange
AFS-175	37/2.50	17.50	Blue
AFS-188	19/3.75	18.75	Black
AFS-210	37/3.00	21.00	Red
AFS-238	19/4.75	23.75	Blue

**Note:** Contact PLP for ACSR suitability.

## For ACSR Conductors - Multi piece



Part Number	Conductor Stranding	Conductor Diameter (mm)	Colour code
FTS-071	6/1/2.36	7.08	Black
FTS-100	12/7/2.00	10.00	Yellow
FTS-113	6/1/3.75	11.25	Black
FTS-117	12/7/2.34	11.70	Brown
FTS-125	12/7/2.50	12.50	Blue
FTS-143	6/4.75/7/1.60	14.30	Blue
FTS-146	7/4.39/7/1.93	14.60	Blue
FTS-150	12/7/3.00	15.00	Red
FTS-155	18/1/3.09	15.50	Black
FTS-157	26/2.54/7/1.91	15.90	Blue
FTS-175	30/7/2.50	17.50	Blue
FTS-181	30/7/2.59	18.13	Blue
FTS-193	18/1/3.86	19.30	Black
FTS-199	26/3.14/7/2.44	19.90	Brown
FTS-210	30/7/3.00	21.00	Red
FTS-245	30/7/3.50	24.50	Purple

**Note:** An FTS is a full-tension fitting and will hold 100% of the conductor UTS.

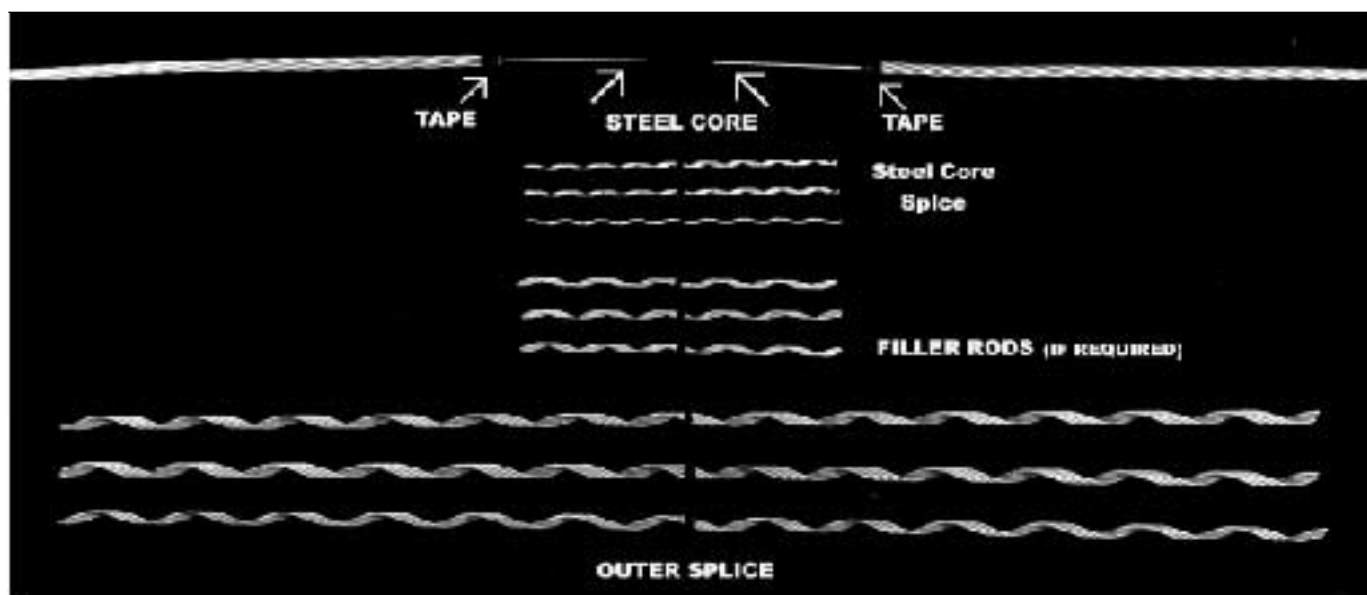


# Application Procedure & Safety Considerations

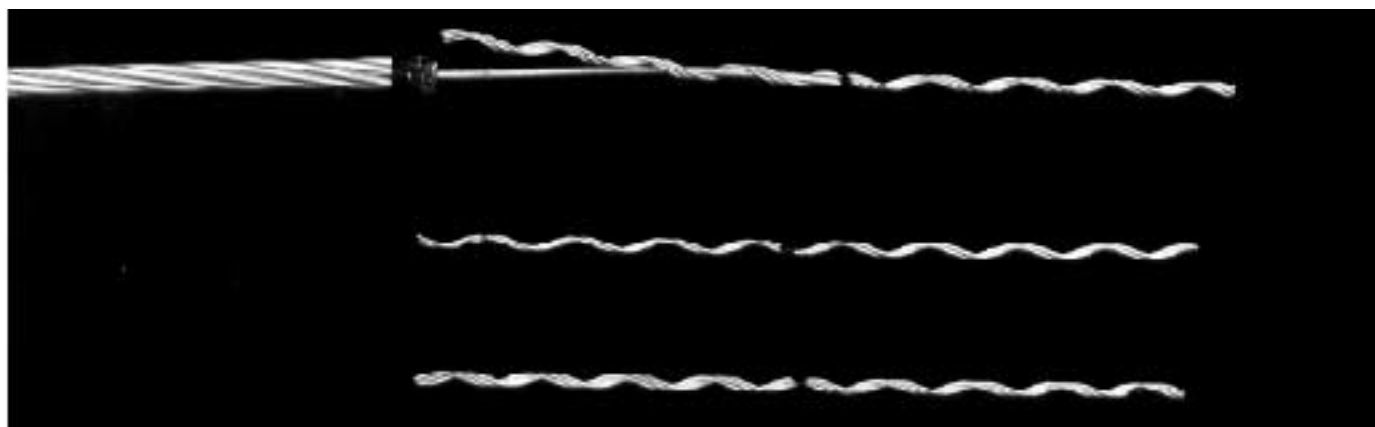
## PREFORMED LINE PRODUCTS

# Full Tension Splice

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

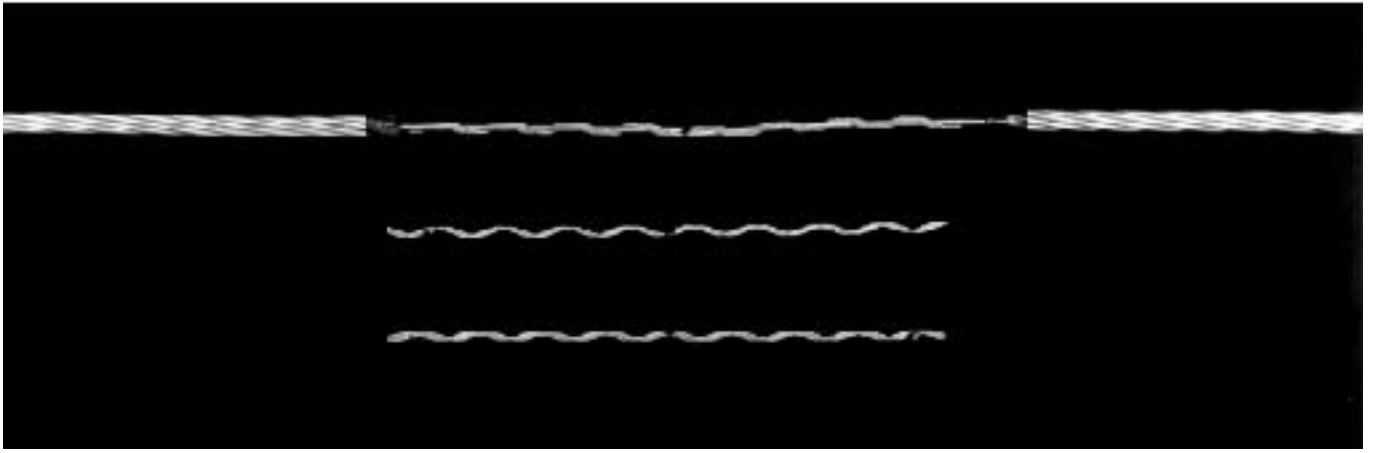


- 1) Splice as received in the field. Place the centre mark of the Steel Core Splice at the end of the conductor section, and measure back the length plus 6 mm. Apply one layer of vinyl tape at this point and cut away the aluminium strands, exposing the steel core. Do the same with the other conductor section.

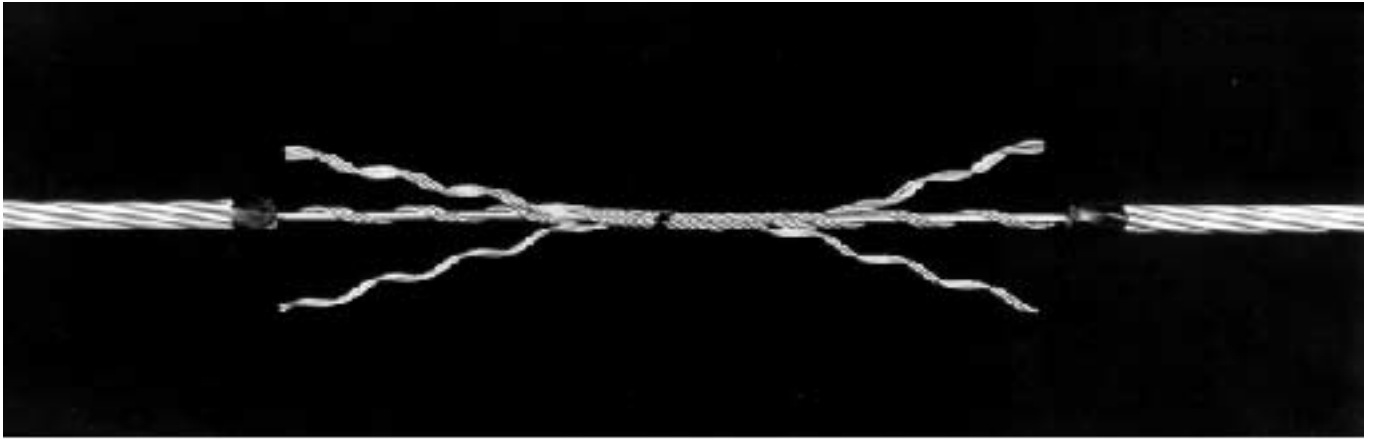


- 2) Select the Steel Core Splice subset containing the greatest number of rods. Begin the application by placing the centre mark of the subset at the end of one steel core and wrap one-half its length.





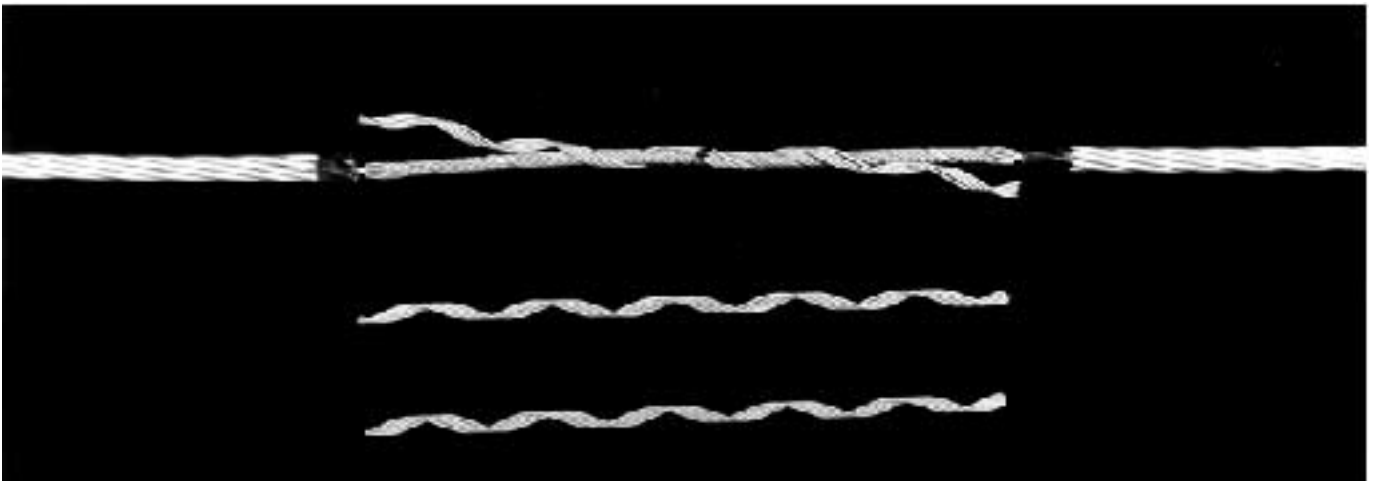
3) Position the end of the other steel core so that both ends are approximately 1 - 2 mm apart. Hold it securely with finger pressure and wrap on the subset completely.



4) Match the second subset at the centre mark and wrap on one or two pitch lengths on each side of the centre. Apply the third subset in the same manner, then completely wrap on both subsets simultaneously.



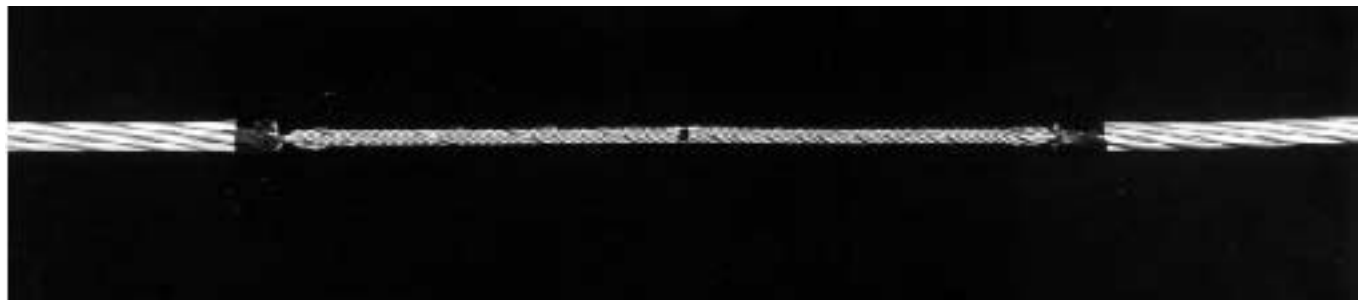
5) Completed Steel Core Splice.



6) Align the centre mark of the Filler Rod Subset (if required) containing the greatest number of rods, with the centre mark of the Steel Core Splice and wrap it on.



7) Match the second subset at the centre mark and wrap on one pitch length from each side of the centre. Start the third subset in the same manner, then completely wrap on both subsets simultaneously.



8) Completed Filler Rod Splice. Do not remove the vinyl tape. To assure reliable electrical connection, all conductors, new or weathered, must be thoroughly scratch brushed until bright and clean immediately prior to installation. A quality inhibitor must be applied to retard oxidation.



9) Align the centre mark of the Outer Splice subset containing the greatest number of rods, with the centre mark of the Filler Rod Splice and wrap it on carefully.



10) Match the center mark of the first subset and apply second subset one or two pitch lengths on each side of center mark. Apply third subset in the same manner then completely wrap on both subsets simultaneously.



11) Completed Full-Tension Splice. The ends of the outer splice rods can be snapped in easily by flexing the conductor and rotating the subset with thumb pressure until the rod ends snap into position.

## GENERAL NOTES

- 1) PREFORMED Splices can be reapplied three times during initial installation after which they should not be reused.
- 2) PREFORMED Splices may be used at the support point but only after factory consultation.
- 3) To assure a reliable electrical connection, all conductors, new or weathered, must be thoroughly scratch brushed until bright and clean immediately prior to installation.
- 4) The application of a quality inhibitor is strongly recommended to retard oxidation.
- 5) Tapping over a PREFORMED Conductor Splice is permissible. Whenever a tapping clamp will be installed over a splice, the outer surface of the splice should be thoroughly scratched brushed to remove any oxides and glue which may be present. Inhibitor should then be applied to the area beneath the tap itself.

## SAFETY CONSIDERATIONS

- 1) For proper performance and personal safety be sure to select the proper size PREFORMED Full Tension Splice before application.
- 2) PREFORMED Full Tension Splices 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

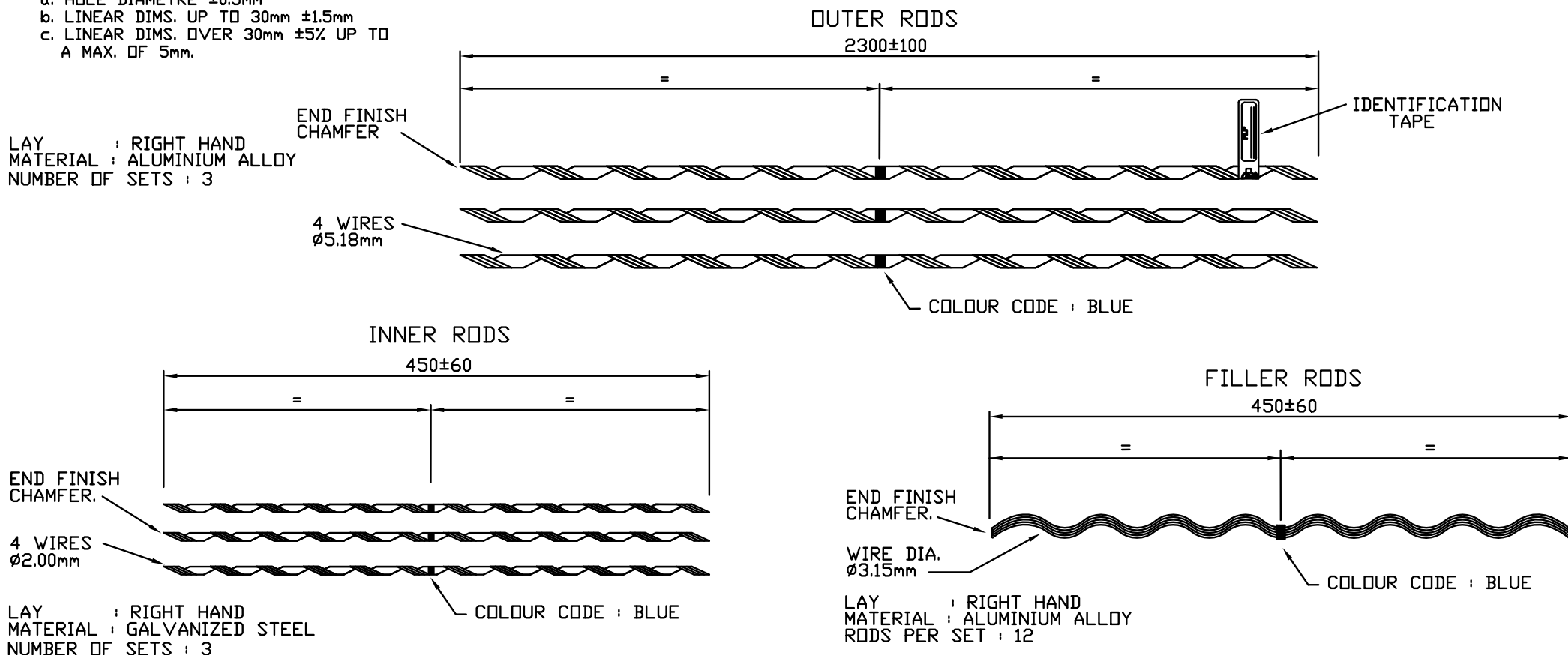
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NOTES

1. ALL DIMENSIONS IN MILLIMETRES.
2. TOLERANCES UNLESS OTHERWISE STATED:-
  - a. HOLE DIAMETRE  $\pm 0.5\text{mm}$
  - b. LINEAR DIMS. UP TO 30mm  $\pm 1.5\text{mm}$
  - c. LINEAR DIMS. OVER 30mm  $\pm 5\%$  UP TO A MAX. OF 5mm.

3. BRACKETED DIMENSIONS DO NOT AFFECT INTERCHANGEABILITY OR COUPLING AND ARE FOR GUIDANCE ONLY.



PRODUCT TAPE COLOUR : BLUE

TAPE REQUIRED

A	DP	9/3/98		
CHK				
INITIAL ISSUE				
DSC NO.				

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PART No.:	FTS-175		
	FULL TENSION		
	SPLICE		
DRAWN	DP	PASSED	DATE

	<b>PREFORMED LINE PRODUCTS (AUSTRALIA) PTY. LTD.</b>			
	ISSUE	A		
	SCALE	N.T.S.	DRAWING NUMBER	
			060-044-RD	

**PLP (AUSTRALIA) PTY LTD**  
**ENGINEERING DEPARTMENT**

DATE – 30<sup>TH</sup> JANUARY, 2018

TYPE TEST REPORT NO: T9789  
TEST REFERENCE NO: T18/08  
PAGE 1 of 5

**MECHANICAL STRENGTH TYPE TEST**

**ON:**

**FULL TENSION SPLICE**  
**30/7/2.50mm ACSR/GZ "GRAPE" CONDUCTOR**

(PLP Aust. Part No. – FTS-175)

Testing Officer:  (Jose-elmer Simeon)

Approved by:  (Florian de Celis, Compliance Manager)

Date Approved: 1/02/2018

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

Fittings and Accessories for Power and Communication.  
Engineered Plastics and Extrusions.  
Data Communication Products.