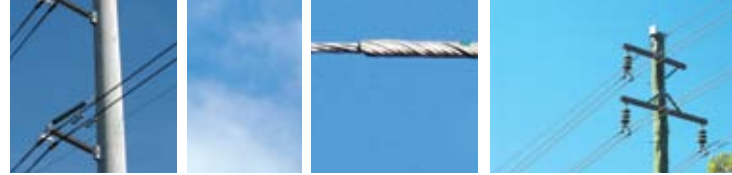


ARMOR-GRIP Suspension



AGS 5 Series AAC, AAAC, ACSR



AGS-51

Part Number (Single Unit)	Part Number (Double Unit)	Conductor Diameter Range (mm)	Colour Code
AGS-5102	AGS-5802	13.48 - 13.77	Green
AGS-5103	AGS-5803	13.78 - 14.09	Brown
AGS-5104	AGS-5804	14.10 - 14.59	Blue
AGS-5105	AGS-5805	14.60 - 15.09	Red
AGS-5106	AGS-5806	15.10 - 15.39	Orange
AGS-5107	AGS-5807	15.40 - 15.79	Purple
AGS-5108	AGS-5808	15.80 - 16.39	Orange
AGS-5109	AGS-5809	16.40 - 17.09	Black
AGS-5110	AGS-5810	17.10 - 17.59	Blue
AGS-5111	AGS-5811	17.60 - 18.09	Yellow
AGS-5112	AGS-5812	18.10 - 18.59	Black
AGS-5113	AGS-5813	18.60 - 19.09	Black
AGS-5114	AGS-5814	19.10 - 19.59	White
AGS-5115	AGS-5815	19.60 - 20.19	Orange
AGS-5116	AGS-5816	20.20 - 20.99	Brown
AGS-5117	AGS-5817	21.00 - 21.49	Red
AGS-5118	AGS-5818	21.50 - 22.09	Blue
AGS-5119	AGS-5819	22.10 - 22.69	Green
AGS-5120	AGS-5820	22.70 - 23.09	Orange
AGS-5121	AGS-5821	23.10 - 23.39	Yellow
AGS-5122	AGS-5822	23.40 - 23.79	Black
AGS-5123	AGS-5823	23.80 - 24.39	White
AGS-5124	AGS-5824	24.40 - 25.09	Purple
AGS-5125	AGS-5825	25.10 - 25.54	Orange
AGS-5126	AGS-5826	25.55 - 25.99	Purple

For use on: ACSR, AAC, AAAC compacted all aluminium and compacted ACSR. Conductors above 12.8 mm in diameter. Right-hand lay standard. 51 Series are single, 58 Series are double.

Note: Contact PLP for required bolt size. Available in M16, M18 and M20

Double AGS Suspension is used where the turning angle is greater than 30° and up to 60°. A triangular Yoke Plate is used with Double AGS.



AGS-58

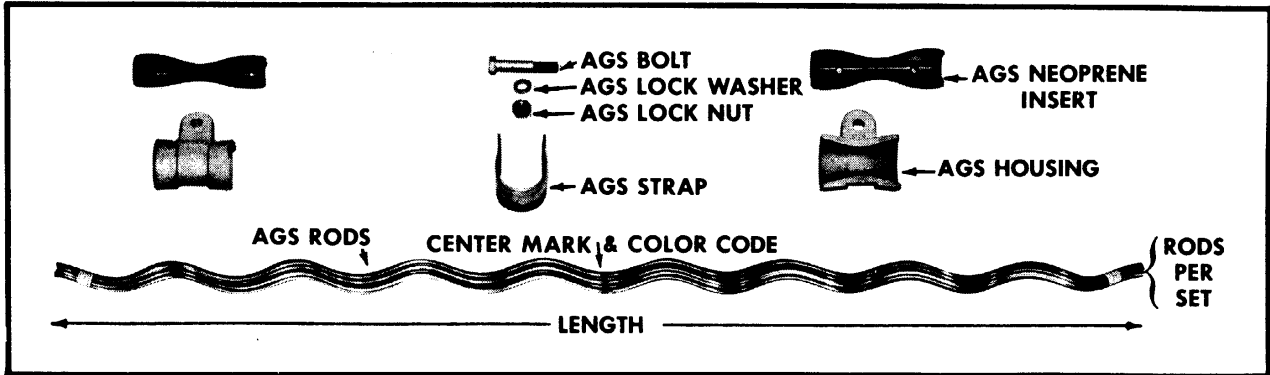
APPLICATION PROCEDURE & SAFETY CONSIDERATIONS **PREFORMED LINE PRODUCTS**

ARMOR-GRIP® Suspension



NOVEMBER 1996

Completely read and understand this procedure before applying product. 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.

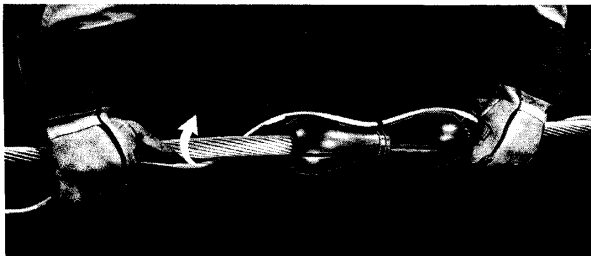


1. ARMOR-GRIP® Suspension nomenclature.



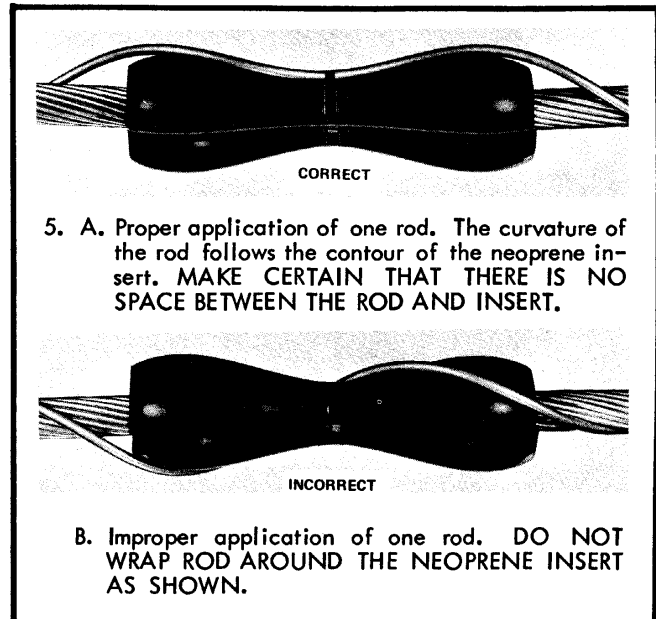
2. Plumb insulator string and mark conductor at center of sheave. Use felt marking pen or lumber crayon; do not scratch conductor. Lift the conductor beyond the ends of the rods to allow enough clearance for the application.

3. Align center marks of AGS Neoprene Inserts with center mark on conductor and tape in place with a thin layer of tape.

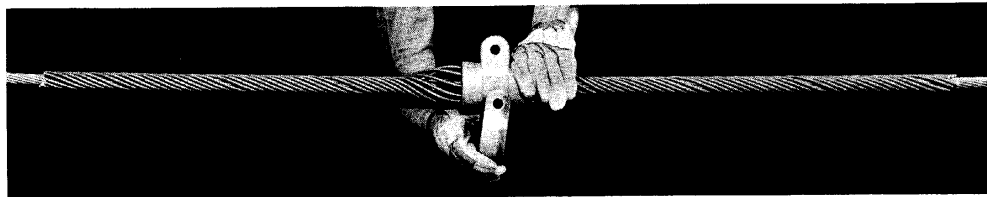


4. Center the AGS Rod on the insert. Apply sufficient length of rod (approximately two wraps) so that it will stay on the conductor.

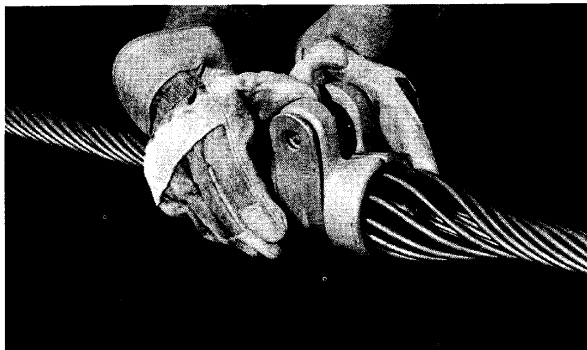
DO NOT DISTORT RODS.



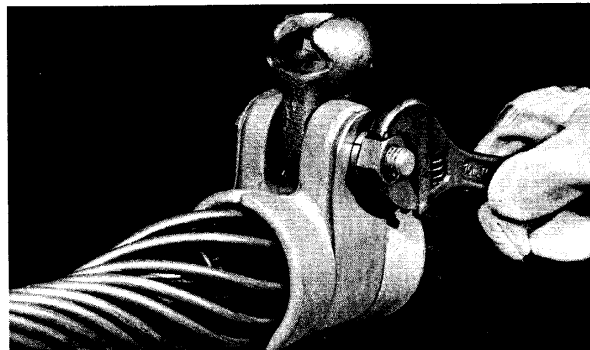
6. Apply all remaining rods evenly around neoprene insert. MAKE SURE THAT NO RODS ARE CROSSED. Each AGS Rod can be applied completely, or all rods can be applied partially as shown above. Make sure that all rod ends are snapped into place.



7. Place the two halves of the AGS Housing on either side of the center assembly. Slide the AGS Strap into position and with the heel of the hand tap firmly into place.



8. Spread the ears of the housing and tap strap into place again. This will align the holes so that the bolt may be inserted easily.



9. Tighten the nut until the lock washer becomes almost flat. DO NOT OVER-TIGHTEN. DO NOT SQUEEZE EARS OF AGS HOUSING AGAINST FITTING.

GENERAL NOTES

1. ARMOR-GRIP® Suspension Rods are precision devices. To insure a tight assembly, they should be stored and handled carefully. To prevent distortion and damage, they should be installed as illustrated.
2. ARMOR-GRIP® Suspension Rods are NOT interchangeable with standard Armor Rods.
3. On some sizes of ARMOR-GRIP® Suspension there will appear to be enough gap between rods to apply an additional rod... BUT... all AGS Rods are packed in sets. Apply only the number of rods in the set.
4. Maximum line angle of deviation:
 - a. The single support ARMOR-GRIP® Suspension may be used on line angles up through 30°.
 - b. Use the double support ARMOR-GRIP® Suspension for line angles between 30° and 60°. Consult the Factory for an engineering recommendation regarding this application.
5. ARMOR-GRIP® Suspension Rods are factory matched; do not intermix rods from different sets.
6. Do not reverse rods end to end in any one set; that is, do not flip end over end.
7. The alignment of the rods should be maintained within 2 inches for voltages of 230 KV and lower; for 345 KV and above, the alignment of the ends of the rods should be maintained within ¾-inch.

SAFETY CONSIDERATIONS

1. 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. **CAUTION: FAILURE TO FOLLOW THESE PROCEDURES AND RESTRICTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**
 2. The rods of this product are intended for a single (one-time) use and for the specified application. However, the hardware components may be reused as desired if in good condition. **CAUTION: DO NOT REUSE RODS OR MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
 3. This product is intended for use by trained craftspeople only.
- This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.
4. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
 5. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size PREFORMED™ product before application.
 6. PREFORMED products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

PREFORMED LINE PRODUCTS 

P.O. Box 91129, Cleveland, Ohio 44101 • 440.461.5200 • www.preformed.com • e-mail: inquiries@preformed.com

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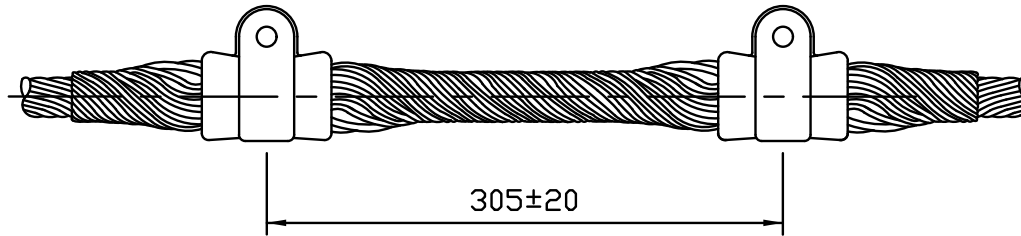
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NOTES

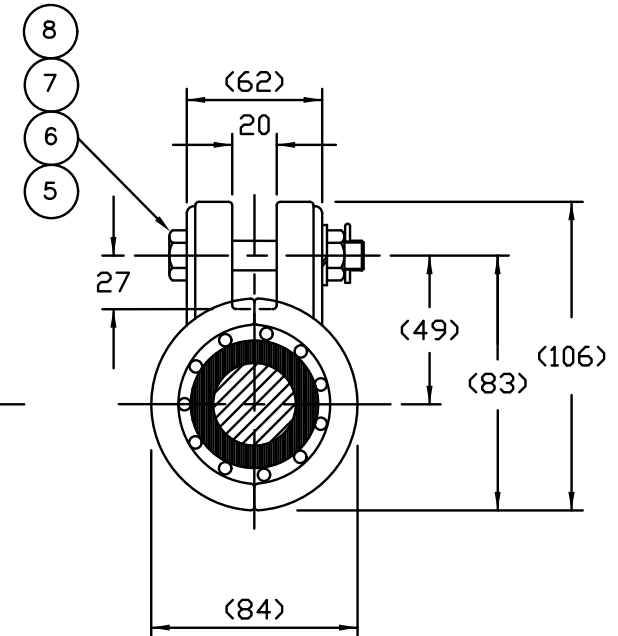
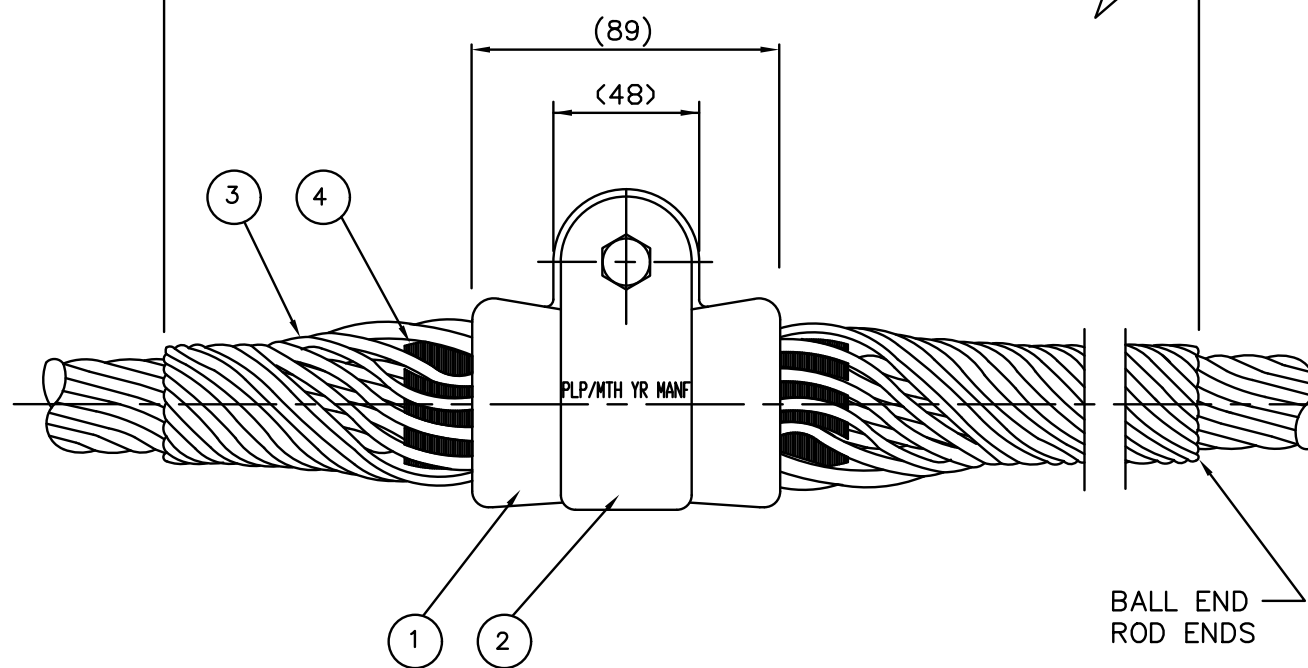
- 1. ALL DIMENSIONS IN MILLIMETRES.
- 2. TOLERANCES UNLESS OTHERWISE STATED:-
 - a. HOLE DIAMETRE ±0.5mm
 - b. LINEAR DIMS. UP TO 30mm ±1.5mm
 - c. LINEAR DIMS. OVER 30mm ±5% UP TO A MAX. OF 5mm.
- 3. BRACKETED DIMENSIONS DO NOT AFFECT INTERCHANGEABILITY OR COUPLING AND ARE FOR GUIDANCE ONLY.
- 4. MATERIAL TO AS1154 GALVANIZING TO AS1650

ITEM	DESCRIPTION	REQ.D	MATERIAL
1	AGS HOUSING	4	ALUM. ALLOY
2	AGS STRAP	2	ALUM. ALLOY
3	AGS RODS ϕ 4.62	10/SET	ALUM. ALLOY
4	AGS INSERT	4	NEDPRENE
5	M16 BOLT	2	GAL. STEEL
6	M16 NUT	2	GAL. STEEL
7	M16 SPRING WASHER - GAL	2	GAL. STEEL
8	SPLIT PIN - HUMPBACK	2	STAIN. STEEL

CONDUCTOR DETAILS			
ϕ	STRANDING	AGS COLOUR CODE	NAME
13.50	7/4.50 AAC	GREEN	MERCURY
13.50	7/4.50 AAAC	GREEN	JADE
13.50	7/4.50 AAAC/1120	GREEN	HYDROGEN



DOUBLE ROD LENGTH=1320±80



A	TD	17/2/94	B	DP	30/10/97
CHK	DM	18/2/94	CHK		
INITIAL ISSUE					
DSC NO. A0286					

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PART No: AGS-5802
 ARMOUR GRIP SUSP.
 RANGE: 13.48 - 13.77



PREFORMED LINE PRODUCTS (AUSTRALIA) PTY. LTD.

DRAWN TD PASSED DATE

ISSUE A/B SCALE N.T.S.

DRAWING NUMBER 023-089-RD



**PREFORMED
LINE PRODUCTS
(AUSTRALIA) PTY LTD**
A.B.N. 29 004 533 877

PLP (AUSTRALIA) PTY LTD

ENGINEERING DEPARTMENT

DATE – 5th JULY 2004

TYPE TEST REPORT NO: T7744

TEST REFERENCE NO: 03/195

PAGE 1 of 4

MECHANICAL STRENGTH TYPE TEST

ON:

ARMOR GRIP SUSPENSION

PART NO: AGS-5102

Testing Officer: P. Fraser (Peter Fraser)

Approved By: M. Laws (Mike Laws – Test Facility Supervisor)

190 Power Street Glendenning NSW 2761 AUSTRALIA

Phone: 8805 0000, INT'L (612) 8805 0000

Fax: 8805 0090, INT'L (612) 8805 0090

**THE QUALITY SYSTEM OF PLP AUSTRALIA HAS BEEN CERTIFIED TO
AS/NZS ISO9001:2000 BY LLOYD'S REGISTER QUALITY ASSURANCE**

**Fittings and Accessories for Power and Communication.
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