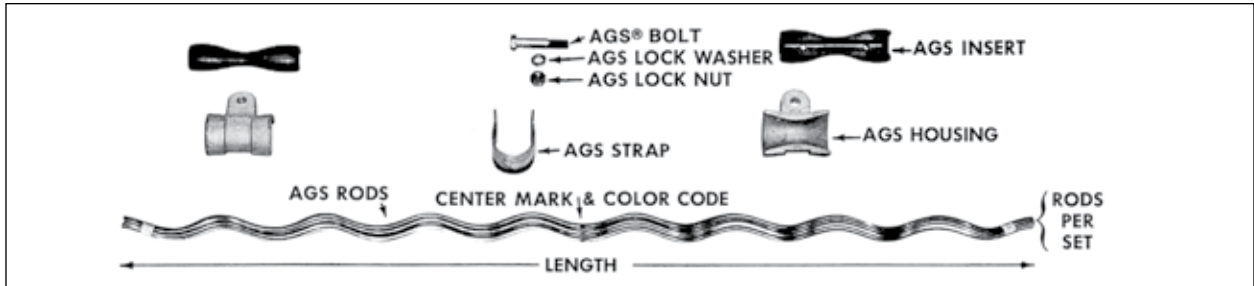




ARMOR-GRIP® Suspension

NOMENCLATURE

| | Thermal Rating | |
|------------------|----------------|------------------|
| | Continuous | 2-Hour Emergency |
| Standard | 200°C | 225°C |
| High Temperature | 250°C | 250°C |



AGS® Bolt, Washer, Lock Nut: Galvanized Steel.

AGS Strap: Galvanized Steel for conductor dia. range .272"-.500".
High-Strength Aluminum Alloy for conductor dia. range .482"-2.233".

AGS Insert: An elastomer specifically formulated for resistance to ozone attack, weathering, extreme high and low temperature variations, and compression set. An aluminum alloy reinforcement is molded into the elastomer.



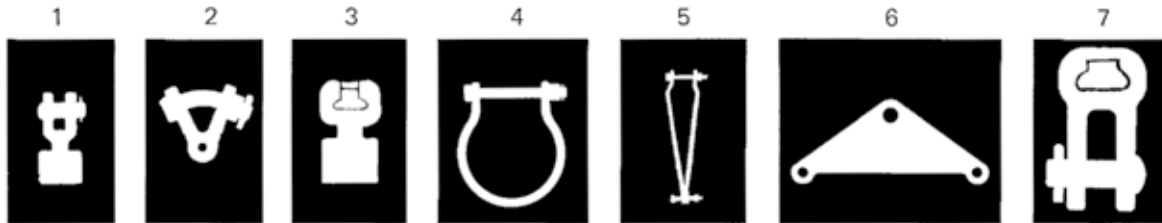
AGS Housing: Galvanized Steel Stamping – for cable dia. range .272"-.500".
High-Strength Aluminum Alloy Casting for conductor dia. range .482"-2.233".

AGS Rods: Aluminum Clad Steel for ACSR diameter .304"-.481".
Aluminum Alloy for ACSR diameter .482"-2.233".
Aluminum Clad Steel for Alumoweld Strand diameter .272"-.500".
Galvanized Steel for Galvanized Steel Strand, diameter .272"-.500".
Standard Armor Rods have dimensions which are different from AGS Rods and cannot be substituted.

Ball End Rod: Rod has a Ball End for non-EHV application. PARROT-BILL® ends are supplied for EHV application. (345kv and above).

AGS HARDWARE and FITTINGS

Shown below is the Clevis Eye (1), Y Clevis Eye (2), Socket Eye (3), Hold-Down Weight Shackle (4), Vertical Bundling



GENERAL RECOMMENDATIONS

Link Assembly (5), Yoke Plate (6), and Socket Clevis (7). ARMOR-GRIP Suspension is intended for use on aluminum based conductors, Alumoweld and galvanized steel strands. It is designed to reduce the static and dynamic stresses at the support point, so that the conductor or strand is protected

against the effects of oscillations. It also protects the conductor in the support against impulse and power flash-over.

ARMOR-GRIP Suspension is recommended as being superior to armor-clamp combinations, for protecting conductors from bending stress, compression stress and abrasion.

(Continued)

ARMOR-GRIP® Suspension

GENERAL RECOMMENDATIONS CONTD.

VERTICAL ULTIMATE STRENGTH. Refer to dimensional tables in this section.

SLIP LOAD. When initially installed, the AGS® Unit has a slip load of approximately 20% of the conductor RBS and approximately 10% of the EHS strands RBS during unbalanced load conditions, but significantly higher loads can be expected after the unit has been in service for a period of time.

THERMAL RATING. Two versions of the ARMOR-GRIP Suspension are available. The standard version is designed for up to 200°C continuous temperature, and the high temperature version (HT), which can withstand a continuous conductor temperature of 250°C.

LINE ANGLE. The maximum recommended line angle for a single support AGS Unit is 30°. For angles between 30° and 60°, the ARMOR-GRIP Suspension: Double is recommended. Refer to pages 1-18 thru 1-24 for catalog numbers.

DESIGN MODIFICATIONS

ARMOR-GRIP Suspension: PARROT-BILL® Ends

To meet the corona onset and RIV requirements for most extra-high-voltage applications (345 KV and above), PARROT BILL Ends are to be used instead of the standard ball-end rods. Consult the Factory for an engineering recommendation.



ARMOR-GRIP Suspension: for Line Repair

For repair of fatigue-damaged conductors, a specially designed ARMOR-GRIP Suspension can be applied over PREFORMED™ Armor Rods to extend the life of the conductor. Wrench-formed rods must be removed when conductor fatigue occurs under them; a splice is then applied to the fatigued area and the AGS Unit is applied over the splice. When considering the use of this product, consult the Factory for an engineering recommendation.

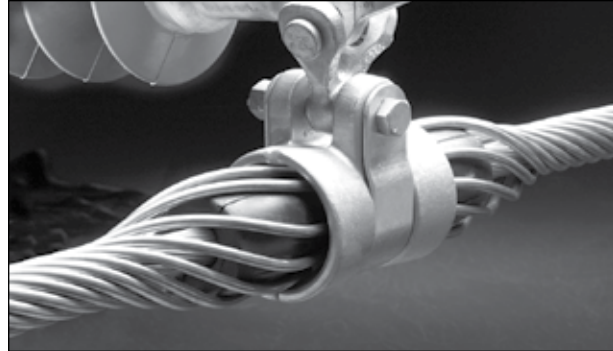


SAFETY CONSIDERATIONS

1. This product is intended for a single (one-time) use and for the specified application. However, all components, **except the rod**, may be reused if in good condition. **CAUTION: DO NOT MODIFY OR REUSE THE RODS UNDER ANY CIRCUMSTANCES.**
2. 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.
3. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
4. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size ARMOR-GRIP Suspension before application.
5. ARMOR-GRIP Suspensions are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

ARMOR-GRIP® Suspension

For use on:
ACSR, All-Aluminum, Aluminum Alloy,
AWAC® Compacted All-Aluminum
Compacted ACSR, ACSS, ACSS/TW



| Catalog Number | Diameter Range (Inches) | | Nominal Conductor Size | AGS® Rods | | | | AGS Hardware Sets Per Carton | AGS Rods & Hardware Wt./Lbs. Per Carton | Color Code |
|----------------|-------------------------|-------|------------------------|-----------------|-----------------------|--------------|-----------------|------------------------------|---|------------|
| | Min. | Max. | | Length (Inches) | Rod Diameter (Inches) | Rods Per Set | Sets Per Carton | | | |
| AGS-5124 | .963 | .986 | 636, 24/7 | 68 | .250 | 13 | 9 | 9 | 87 | Brown |
| AGS-5125 | .987 | 1.005 | 636, 26/7 | 69 | .250 | 13 | 9 | 9 | 87 | Orange |
| AGS-5126 | 1.006 | 1.022 | 636, 30/19 | 80 | .310 | 11 | 6 | 6 | 73 | Purple |
| AGS-5127 | 1.023 | 1.040 | 795, 37-61W All-Alum. | 82 | .310 | 11 | 6 | 6 | 75 | Red |
| AGS-5128 | 1.041 | 1.074 | 715.5, 26/7 | 82 | .310 | 11 | 6 | 6 | 75 | Blue |
| AGS-5129 | 1.075 | 1.090 | 874.5, 37W | 82 | .310 | 12 | 6 | 6 | 78 | Green |
| AGS-5130 | 1.091 | 1.118 | 795, 26/7 | 82 | .310 | 12 | 6 | 6 | 78 | Yellow |
| AGS-5131 | 1.119 | 1.136 | 954, 37W All-Alum. | 82 | .310 | 12 | 6 | 6 | 78 | Black |
| AGS-5132 | 1.137 | 1.152 | 795, 30/19 | 82 | .310 | 12 | 6 | 6 | 78 | White |
| AGS-5133 | 1.153 | 1.175 | 954, 45/7 | 82 | .310 | 12 | 6 | 6 | 79 | Brown |
| AGS-5134 | 1.176 | 1.208 | 954, 54/7 | 82 | .310 | 12 | 6 | 6 | 79 | Orange |
| AGS-5135 | 1.209 | 1.226 | 1113, 61W | 88 | .365 | 11 | 3 | 3 | 55 | Purple |
| AGS-5136 | 1.227 | 1.259 | 1192.5, 61W All-Alum. | 88 | .365 | 11 | 3 | 3 | 55 | Red |
| AGS-5137 | 1.260 | 1.286 | 1113, 48/7 | 88 | .365 | 12 | 3 | 3 | 58 | Blue |
| AGS-5138 | 1.287 | 1.314 | 1272, 61W | 88 | .365 | 12 | 3 | 3 | 58 | Green |
| AGS-5139 | 1.315 | 1.355 | 1272, 45/7 | 88 | .365 | 12 | 3 | 3 | 58 | Yellow |
| AGS-5140 | 1.356 | 1.394 | 1272, 54/19 | 88 | .365 | 12 | 3 | 3 | 60 | Black |
| AGS-5141 | 1.395 | 1.416 | 1351.5, 54/19 AWAC | 88 | .365 | 13 | 3 | 3 | 61 | White |
| AGS-5142 | 1.417 | 1.442 | 1510.5, 61W | 88 | .365 | 13 | 3 | 3 | 62 | Brown |
| AGS-5143 | 1.443 | 1.477 | 1431, 54/19 | 88 | .365 | 13 | 3 | 3 | 64 | Orange |
| AGS-5144 | 1.478 | 1.516 | 1590, 45/7 | 88 | .365 | 13 | 3 | 3 | 64 | Purple |
| AGS-5145 | 1.517 | 1.557 | 1590, 54/19 | 88 | .365 | 13 | 3 | 3 | 64 | Red |
| AGS-5146 | 1.558 | 1.579 | 1780, 72/7 | 100 | .365 | 14 | 3 | 3 | 78 | Blue |
| AGS-5147 | 1.580 | 1.612 | 1780, 84/19 | 100 | .365 | 14 | 3 | 3 | 78 | Green |
| AGS-5148 | 1.613 | 1.650 | 2000, 91W | 100 | .365 | 14 | 3 | 3 | 79 | Yellow |
| AGS-5149 | 1.651 | 1.688 | 2000, 72/7 | 100 | .365 | 15 | 3 | 3 | 83 | Black |
| AGS-5150 | 1.689 | 1.711 | 2000, 84/19 | 100 | .365 | 15 | 3 | 3 | 83 | White |
| AGS-5151 | 1.712 | 1.752 | 2129, 84/19 | 100 | .365 | 15 | 3 | 3 | 83 | Brown |
| AGS-5152 | 1.753 | 1.790 | 2156, 84/19 | 100 | .365 | 15 | 3 | 3 | 83 | Orange |
| AGS-5153 | 1.791 | 1.828 | 2300, 84/19 | 100 | .365 | 15 | 3 | 3 | 83 | Purple |
| AGS-5168 | 1.829 | 1.882 | 2515MCM76/19 | 100 | .365 | 16 | 3 | 3 | 85 | Red |
| AGS-5177 | 2.193 | 2.233 | | 100 | .365 | 18 | 3 | 3 | 88 | Red |

Note: Add HT to catalog number for High Temperature Version (Ex.: AGS-5177HT).

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal Conductor Size indicates one of various conductors within each range.
- (2) Reference general dimensional information for physical dimensions other than length.
- (3) Standard ARMOR-GRIP Suspension does not include AGS® FITTINGS, i.e., AGS Socket Eye, AGS Clevis Eye or AGS Y-Clevis Eye. See tables following AGS Catalog information for catalog numbers, prices and dimensions of AGS FITTINGS.
- (4) AWAC is a registered trademark of the Copperweld Co.