

ARMOR-GUARD®

HDPE STEEL ARMOR CONDUIT

Specialty Conduit

ARMORED CONDUIT

June 2008



Features & Benefits

- *Flexible coated steel armor layer.*
- *Wave Rib HDPE inner liner reduces cable pulling friction.*
- *Abrasion & water resistant HDPE outer jacket.*
- *Available with pre-installed Bull-Line pull tape.*
- *Superior mechanical protection against:*
 - *Rodents*
 - *Ballistics*
 - *Crush*
 - *Chemicals*
 - *Moisture penetration*
- *Available for overhead applications with black UV protective jacket.*

GENERAL INFORMATION

Armor-Guard® is an armored duct designed to provide the highest protection in direct burial or aerial applications. The corrugated steel armor is coated on both sides with a corrosion-resistant copolymer. The coated armor integrally bonded with the HDPE jacket for superior cable protection in rugged environments. The patented Wave Rib™ inner liner greatly reduces the coefficient of friction, by over 75%, significantly reducing cable installation loads. It is available in four sizes 1", 1-1/4", 1-1/2" and 2" diameters.

ARMOR-GUARD® TOUGH-FLEXIBLE-SUPERIOR CABLE PROTECTION

Superior Long Term Protection - Armor-Guard's flexibility with a low brittleness temperature of -750 F protects cables from ground movement, like frost heave hidden objects in the soil that might cause cable pressure points, moisture and chemicals.

Rodent Resistant - Armor-Guard® is the most reliable protection against gophers and rodents. Its steel armor greatly resists gnawing animals from penetrating the internal liner assuring the conduit's integrity to protect the internal cables.

Impact Resistance - Cable is protected from incidental shovel damage and provides much greater protection from impact than cable jackets alone.

Permanent Lubricant Applied - A specially formulated silicone lubricant emulsion can be added to the inner wall during manufacture. The lubricant will reduce the coefficient of friction to .10 or less, making cable installation much easier and less stressful on the cable. Being inert it will be there to help in removing the cable when future replacement is required.

Fast and Easy Installation - A special annealing process during each stage of manufacture assures flexibility to create straight payout from the reel or coil. It's made in long lengths needing fewer couplers and speeding up installation saving time and money.



Armor-Guard Bonded Coupler Assembly

ARMOR-GUARD® TOUGH-FLEXIBLE-SUPERIOR CABLE PROTECTION

Armor-Guard® is available with a standard orange color jacket or solid black with color stripes for easy identification. Other colors can be made available, but minimum quantities may apply. Armor-Guard® can be manufactured internally lubricated, with Bull-Line™ pull tape or with cables preinstalled. Please contact your A-D Technologies representative for more details.

Standard Sizes and Dimensional Specifications

Nominal Size	Jacket Ave. OD	Jacket Tol.	Ave. OD Inner Liner	Ave.ID	Wt. / Ft. (lbs.)
1-1/4"	1.910"	±0.052	1.660"	1.444"	0.574

Note: Other sizes and lengths available. Contact Customer Service for details.

Dimension Notes Measurement Methods:

- To measure OD use a PI tape.
- Jacket is the outside diameter of finished conduit.
- Corrugated thickness has measured after corrugated metal layer is wrapped around liner.
- Corrugated Height: 0.040" ±0.01 0".
- Jacket Thickness: 0.080" ±0.010".

Standard Lengths and Weights

Cat. Number	Nominal Size	Weight per Ft.	Reel Footage	Reel FxT	Total Weight
AG55125 NT33 2500R	1-1/4"	0.574#	2500	72 X 42	1680#
AG55125 NT33 5000R	1-1/4"	0.574#	5000	98 X 42	3190#

- 1) Other lengths available, minimum run quantities may apply.
2) Total weight includes reel weight.

COUPLERS Two types of couplers are recommended for use with Armor-Guard, either Split-Locks or Shur-Locks. Detailed installation instructions are available for the placement of the Split-Lock coupler and bond assembly showing splice protection from corrosion and signal loss. Copies are available from your customer service department, and both types are listed in the table to the left and pictured below.

Suggested Couplers

Armor-Guard Size	Coupler Description	Qty/Ctn	Coupler Cat. No.
1" Armor-Guard	1.00" E-coated Split Lock	10	IA 550 SP100
1-1/4" Armor-Guard	1.25" E-coated Split Lock	10	IA 550 SP125
1-1/2" Armor-Guard	1.50" E-coated Split Lock	10	IA 550 SP150

NOTE: A-D Technologies has made every attempt to assure that the information contained in this product bulletin is accurate. The information supplied may change without notice. This information is intended to inform the reader of the typical characteristics of the pipe and accessories that are described and should not be considered complete with regard to design considerations. Contact a representative regarding any questions about this document and to determine if the information contained within is current.

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