

FIBER-GUARD® FLEX-COR

FLEXIBLE CORRUGATED JACKETED CONDUIT

Specialty Conduit

CORRUGATED
JACKETED CONDUIT

June 2008



Fiber-Guard® Flex-Cor Smooth Out,
Corrugated Inner Wall

Features & Benefits

- *Flexible corrugated inner wall compensates for expansion/contraction stresses.*
- *Provided in long continuous lengths, no splices, no waste.*
- *Light weight — high tensile strength for easier installation and superior cable protection.*
- *Compatible with a wide range of couplers, easily adapts to other conduit types.*
- *Options include pre-lubrication and Bull-Line pull tape factory installed.*
- *Compatible with air-assist cable placing methods.*
- *Jacketed-corrugated inner wall provides increased crush resistance for use in direct burial Flex-Cor® Smooth Out/Corrugated Inner Wall for services.*

GENERAL INFORMATION

Fiber-Guard® Flex-Cor is a jacketed-corrugated conduit designed for above ground installations in conduit or raceways on bridges or lashed to existing aerial plant. Fiber-Guard® Flex-Cor is also ideally suited for use in direct buried transition locations or for buried services. The Fiber-Guard® Flex-Cor jacketed-corrugated design and material properties compensate for the stresses of expansion and contraction, eliminating the need for special expansion sleeves. Fiber-Guard® Flex-Cor is made of a specially formulated polyethylene resin that resists the adverse effect of sunlight assuring long life in above ground installations. The standard product is available in 1", 1-1/4", 1-1/2" and 2' diameters. The internal corrugated wall can be provided in colors for rapid route identification when installing the cables. The outer jacket is fused to the inner corrugated wall so the assembly performs as a single conduit during installation.



Fiber-Guard® Flex-Cor's Key Installation Advantages

1. Specifically designed to withstand the stresses introduced by expansion/contraction in above ground installations.
2. Recommended couplers, Split-Lock or Electro-Fusion, provide airtight seal critical for air-assisted cable placement.
3. Long lengths reduce the number of couplers needed.
4. Flex-Cor's dual wall construction has excellent tensile/crush resistance permitting long pulls as well as making it strong enough for use in direct buried transitions or for buried services.
5. Pays off reel straight — even in cold weather
6. Corrugated lubricated inner liner provides low friction during cable placement.
7. Transition couplers available for joining to other conduit materials and types.

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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 **dura-line**

FIBER-GUARD® FLEX-COR

FLEXIBLE CORRUGATED JACKETED CONDUIT

CONDUIT SPECIFICATIONS

- Special combination of polyethylene resins selected in accordance with ASTM D3350 cell class 334420 C or E.
- Black shall have a UV stabilization for above ground applications with a minimum of 2% carbon black additive with a maximum particle size of 20 microns. Colors as specified shall have antioxidant additives for UV protection.
- Co-extruded external jacket is fused to the internal corrugated conduit to provide maximum strength.
- The internally corrugated wall un-lubricated shall have a coefficient of friction of ≤ 0.1 .

Dimensional and Physical Specifications

| Nominal Size | Average OD | Minimum ID | Wt/Ft (lbs.) | Pull Strength (lbs.) | Bend Radius |
|--------------|------------|------------|--------------|----------------------|-------------|
| 1" | 1.440" | 1.000" | .20 | 1025 | 14" |
| 1-1/4" | 1.660" | 1.250" | .26 | 1200 | 16" |
| 1-1/2" | 1.900" | 1.500" | .34 | 1375 | 20" |
| 2" | 2.375" | 2.000" | .46 | 1700 | 24" |

ORDERING INFORMATION AND ACCESSORIES

| Nominal Size | Standard Length (Feet) | Reel Dimensions (F x W) | | Reels/TL 48' Flatbed | Feet/TL Thousands |
|--------------|------------------------|-------------------------|-------|----------------------|-------------------|
| | | Flange | Width | | |
| 1" | 2500' | 48" | 46" | 24' | 60,000' |
| | 5000' | 66" | 46" | 16' | 80,000' |
| 1-1/4" | 2500' | 60" | 46" | 18' | 45,000' |
| | 5000' | 78" | 46" | 14' | 70,000' |
| 1-1/2" | 2500' | 72" | 46" | 16' | 40,000' |
| | 5000' | 96" | 48" | 12' | 60,000' |
| 2" | 3300' | 96" | 48" | 12' | 39,600' |



Ask to have Bull-line installed in your Fiber-Guard® Flex-Cor. Bull-line is available in a wide range of working strengths.

Recommended Couplers for Fiber-Guard® Flex-Cor

| Part # | Description | Standard UOM | Tensile Strength (lbs.) |
|--------------------------------|----------------------------------|--------------|-------------------------|
| Split-Lock Couplers | | | |
| 402079 | 1" ID, Duct OD's 1.40"-1.44" | 10/Ctn. | 1000 |
| 402087 | 1-1/4" ID, Duct OD's 1.64"-1.68" | 10/Ctn. | 1000 |
| 402076 | 1-1/2" ID, Duct OD's 1.88"-1.92" | 10/Ctn. | 1000 |
| 402077 | 2" ID, Duct OD's 2.355"-2.395" | 10/Ctn. | 1000 |
| Electro-Fusion Couplers | | | |
| 900370 | Electro-Fusion Processor | 1 Each | N/A |
| 401096 | 1-1/4" ID, Duct OD's 1.64"-1.68" | 10/Ctn. | 1200 |
| 401300 | 1-1/2" ID, Duct OD's 1.88"-1.92" | 10/Ctn. | 1375 |
| 401098 | 2" ID, Duct OD's 2.355"-2.395" | 10/Ctn. | 1700 |
| Shur-Lock Couplers | | | |
| 403561 | 1" ID, Duct OD's 1.40"-1.44" | 10/Ctn. | 600 |
| 400758 | 1-1/4" ID, Duct OD's 1.64"-1.68" | 10/Ctn. | 700 |
| 400760 | 1-1/2" ID, Duct OD's 1.88"-1.92" | 10/Ctn. | 800 |
| 400761 | 2" ID, Duct OD's 2.355"-2.395" | 10/Ctn. | 800 |

E-coated Split-Lock Coupler

Designed to provide excellent pull out strength. Coupler's internal gasket is air tight and water-tight. It is re-enterable, allowing future access if necessary.



Electro-Fusion Coupler

Designed to provide maximum pull out strength. Requires an EF processor used to provide the power for fusing. The coupling is air and water tight and as strong as the conduit's working strength. To isolate expansion/contraction can be used as a restraint device with bulkhead.



Shur-Lock Coupler (Only for direct buried)

Designed to provide excellent pull out strength. Internal O-ring seal provides an air-tight and water-tight seal. Easy to install for use as a transition to other conduit types.

