

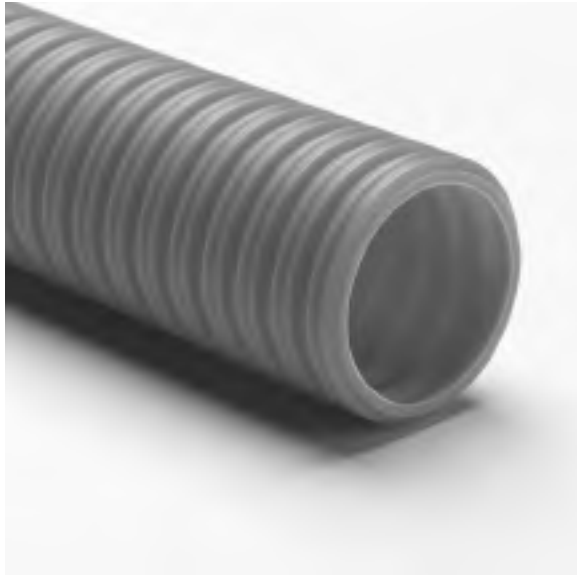
FIBER-GUARD®/CORRUGATED

HDPE CORRUGATED CONDUIT

Specialty Conduit

CORRUGATED CONDUIT

June 2008



Non-metallic Corrugated Conduit

Features & Benefits

- *Stocked in industry standard orange color for easy identification, also available in black.*
- *Rugged corrugated design is flexible, light weight yet provides excellent crush resistance.*
- *Made from high-density polyethylene (HDPE).*
- *Choose from 4 diameters, 1", 1-1/4", 1-1/2" and 2" to accommodate your specific cable diameter.*
- *Sequential footage markings and product identification printed every 2 feet.*
- *Standard lengths ranging from 250' coils to 5000' reels.*

GENERAL INFORMATION

Fiber-Guard®/CR corrugated conduit is manufactured from HDPE resin as specified in ASTM F 2160. It is available in two standard colors, orange or black. (Other colors can be made available but minimum run quantities may apply.) Fiber-Guard®/CR is available in standard strengths of 500# tensile. (Other strengths can be made available upon request, minimums will apply.)

FAST AND EFFICIENT INSTALLATION

The lightweight, flexible corrugated design makes Fiber-Guard®/CR easy to handle and install. The corrugations provide excellent crush resistance for long term protection of delicate optical cables. Internal corrugations reduce surface contact between the inside wall of the conduit and the cable jacket, lowering friction while protecting the cable from high tensile stress during installation. Fiber-Guard®/CR is available with Bull-Line pull tape factory installed lowering field cable installation costs.

APPLICATION INFORMATION

Typical usage for Fiber-Guard®/CR includes both buried and innerduct applications. CR can be direct buried and is frequently used for short runs. Corrugated product is commonly used as an innerduct for short pulls. Contact your A-D Technologies' sales representative for more information.

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**

MATERIAL PROPERTIES

Fiber-Guard®/CR conduit shall be made from high-density polyethylene (HDPE). The HDPE shall meet or exceed the properties listed in ASTM D-3350 for cell classification 334480 C (black minimum 2% carbon black) or E (color with UV stabilizer).

Cell	Properties	Requirements	Standards
3	Density	0.941 – 0.955	ASTM D 792 or 1505
3	Melt Flow Index (190/2. 160)	0.4 – 0.15 g/10 minutes max	ASTM D 1238
4	Flexural Modulus	80,000 psi minimum	ASTM D 790
4	Tensile Strength at Yield	3,000 psi minimum	ASTM D 638
8	Environmental Stress Crack Resistance	Condition C, F ₁₀ Max, 10% Igepal, 96 hrs, minimum	ASTM D 1693
–	Brittleness Temperature	-60 degrees C	ASTM D 746
–	Elongation	400% minimum	ASTM D 638
–	Class C	Minimum 2% Carbon Black	ASTM D 3350
–	Class E	Colored with UV Stabilizer	ASTM D 3350
0	HDPE resin non-pressure rated for conduit		

Non-standard lengths, special markings, a variety of Bull-Line pull tape strengths and other options can be made available upon request (minimum quantities may apply). Special assemblies are also available. Contact your A-D Technologies sales representative with details regarding your specific requirements or to obtain a quotation.

REEL SPECIFICATIONS

Catalog #	Size	Length	Reel Dimensions
CR500 100 N033 1000	1.00"	1000	48"x41" Steel
CR500 100 N033 2500	1.00"	2500	66"x42" Steel
CR500 100 N033 5000	1.00"	5000	72"x45" Steel
CR500 125 N033 1000	1.25"	1000	48"x48" Steel
CR500 125 N033 2500	1.25"	2500	72"x42" Steel
CR500 125 N033 5000	1.25"	5000	78"x45" Steel
CR500 150 N033 1000	1.50"	1000	72"x45" Steel
CR500 150 N033 2500	1.50"	2500	78"x45" Steel
CR500 150 N033 3500	1.50"	3500	78"x45" Steel
CR500 200 N033 1000	2.00"	1000	78"x45" Steel
CR500 200 N033 3000	2.00"	3000	96"x45" Steel

STANDARD CORRUGATED REEL & COIL DIMENSIONS

Size	Average OD	Minimum ID	Wt. Per 100-ft.
1"	1.330"	1.000"	12.1#
1-1/4"	1.550"	1.250"	14.1#
1-1/2"	1.800"	1.495"	16.5#
2"	2.113"	2.020"	19.6#

Note: Also available in 600 lb. tensile. Standard tensile for products listed above is 500 lb. tensile strength.

UL Listed Couplers & Terminal Adapters

**Couplers
Riser Rated**



KPRC100	1.00" Riser Rated Fits Nominal ODs 1.30"-1.35"	50/case
KPRC125	1.25" Riser Rated Fits Nominal ODs 1.55"-1.64"	30/case
KPRC150	1.50" Riser Rated Fits Nominal ODs 1.80"-1.90"	30/case
KPRC200	2.00" Riser Rated Fits Nominal ODs 2.25"-2.38"	20/case

**Terminal Adapters
Riser Rated**



KRTA100	1.00" Riser Rated Fits Nominal ODs 1.30"-1.35"	50/case
KRTA125	1.25" Riser Rated Fits Nominal ODs 1.55"-1.64"	30/case
KRTA150	1.50" Riser Rated Fits Nominal ODs 1.80"-1.90"	30/case
KRTA200	2.00" Riser Rated Fits Nominal ODs 2.25"-2.38"	20/case