Providing high quality cable protection products to the fiber optic and telecommunication industries has become one of the leading priorities at Eastern Wire + Conduit. That’s why we have created the Protect-N-Duct™ high-density polyethylene family of products. These products are used to protect the vital network of cables that transfer information worldwide. This outstanding package combines the value-added benefits of durability, chemical resistance, waterproof connections, ease of installation, and reduced friction all in one cost-effective system.

**Durability**
Eastern Wire + Conduit’s Protect-N-Duct™ is manufactured from the highest quality materials. It offers high tensile strength while being impervious to abrasion, scouring and root penetration. This results in lower maintenance costs over an extended lifespan.

**Lightweight**
Protect-N-Duct™ is approximately half the weight of conventional HDPE solid wall pipe. This allows for easier handling, less wear and tear on expensive installation equipment, and the elimination of broken reels.

**Waterproof Connections**
Protect-N-Duct™ is designed to provide leak proof installation with a watertight joint for exposed or direct buried applications. This will prevent water from penetrating through to the cable inside.

**Ease of Installation**
Installation of the Eastern Wire + Conduit Protect-N-Duct™ innerduct requires no special tools or equipment. It can be easily cut to the required length and connected using various Protect-N-Duct™ fittings and attachments. All Protect-N-Duct™ comes with a standard pull wire or rope as follows; 240 pound traceable wire (Dual Wall 1/4”-3”), 240 pound pull rope (Plenum and Riser 1/2” and 3/4”), 900 pound pull tape (Plenum and Riser 1”-2”). Protect-N-Duct™ Plenum, Riser, HDPE Dual-Wall, and HDPE Single-Wall are all available in “Split-Wall” for retro applications.

**Reduced Friction**
Protect-N-Duct™ innerduct and fittings have a unique ultra-smooth inner wall that significantly reduces friction when pulling cable through pipe. This cuts down on installation time and avoids unwanted wear and tear on the cable.

**Cost Savings**
The bottom line is that you will save money. Protect-N-Duct™ innerduct and fittings will provide superior protection for years to come, avoiding costly maintenance and repair expenses.

**Ease of Identification**
Eastern Wire + Conduit’s Protect-N-Duct™ ensures easy identification by using a color coded Eastern logo. When you see the Eastern logo, you know you have superior quality and reliability.
**Receiving:** When receiving the Protect-N-Duct™ shipment at the job site, the contractor or purchaser should exercise established precautions. Each pipe shipment should be inspected and inventoried with care upon arrival. The pipe was inspected and loaded with due care at the factory using methods acceptable to the carrier. It is the carrier’s responsibility to deliver the shipment in good condition, and it is the receiver’s responsibility to ensure that there is no loss or damage.

**Unloading:** The means by which Protect-N-Duct™ is unloaded in the field is the decision and the responsibility of the receiver. These recommendations should be followed:
1. Remove restraints from the reels. These may be straps, ropes or chains with padding.
2. Using a forklift (or front end loader equipped with forks), remove the reels one at a time from the truck.
3. During the removal and handling, ensure that the reels do not make impact with other objects, especially in cold weather.
4. Place Protect-N-Duct™ reels on level ground.
5. Do not unload reels by hand. Care should be taken to ensure reels are not dropped or damaged.

**Storage:** The following procedures are recommended to prevent damage to the Protect-N-Duct™ pipe:
1. Store the pipe at the site in reels.
2. Do not stack large reels on top of each other.
3. When small reels are stacked, ensure that the weight of upper reel does not cause deformation to the lower reel.
4. Store lubricant under cover in tightly sealed containers.
5. Protect pipe interior and sealing surfaces from dirt and foreign matter.
6. If you anticipate storing the pipe outside under intense sunlight for over one year, we advise you cover it with canvas or other opaque material, being sure to leave adequate air circulation underneath.

**Handling:** The following procedures are recommended:
1. When using mechanical equipment, exercise care to prevent damage to pipe.
2. Lower pipes carefully from trucks and into trenches. Do not drop pipe.
3. In freezing temperatures, use caution to prevent impact damage. Handling methods considered acceptable for warm weather are unacceptable during very cold weather. As the temperature approaches and drops below freezing, the flexibility and impact resistance of HDPE pipe is reduced. Extra care should be used in handling in cold weather. Extreme care should be used if Protect-N-Duct™ is handled or installed in temperatures below - 18°C (0°F).