

## HiTensile Duct

HDPE Duct with Kevlar® Reinforcement



### Applications

This HiTensile duct is a heavy duty duct designed specifically for use when installing fiber optic cable over long distances. This Kevlar® reinforced high-density polyethylene (HDPE) duct has a pulling tension that far exceeds that of the most robust cable. Pre-installing cable in HiTensile duct offers real benefits both during installation and in the long term life of the cable. It is shipped with sealed ends to prevent entry of moisture and other contaminants.

In buried installations, cable length may be limited because the anticipated pulling force may exceed what the cable can bear. However, HiTensile duct can withstand a much greater pulling effort and makes possible easier and longer splice-free runs (2,500 feet or more) of pre-installed cable.

When aerially installed cable is directly attached to a messenger cable, the difference in their expansion rates may result in cable damage. HiTensile duct helps to prevent the fiber in pre-installed cable from micro-fracturing caused during thermal expansion and contraction. HiTensile duct may be used to protect cable types other than fiber optic. It is available in 1 inch and 1-1/4 inch sizes and may be specified in a medium (2000 lbs.) and heavy (4,500 lbs.) pulling tension.

### Design Parameters

DUCT: High density polyethylene (HDPE) duct reinforced by strands of aramid yarn strands extruded in the duct wall.

COLOR: Black, although custom colors can be ordered.

®Kevlar is a registered trademark of Dupont.

### Prysmian Group

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### HDPE Duct with Kevlar® Reinforcement

Nominal Duct Size in (mm)	Nominal ID of Duct in (mm)	Nominal Wall Thickness in (mm)	Nominal Duct O.D. in (mm)	Nominal Duct Weight in (mm)	Pulling Tension Force/lbs	
					Medium	Heavy
1.00 (25.4)	1.00 (25.4)	0.188 (4.78)	1.375 (34.9)	303 (451)	2000 lbs	4500 lbs
1.25 (31.8)	1.26 (32.6)	0.20 (5.08)	1.680 (42.1)	400 (596)	2000 lbs	4500 lbs

The data herein is approximate and subject to normal manufacturing tolerances.

These specifications are subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

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