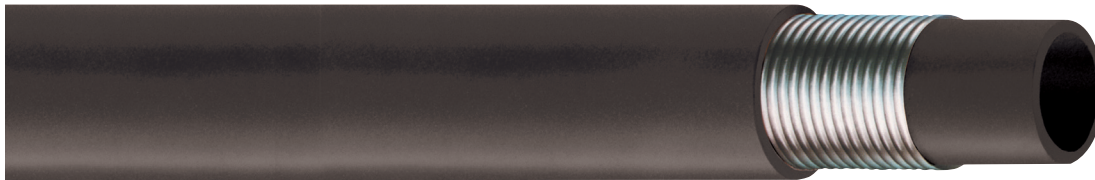


PEST-Duct

(PolyEthylene Steel Tape)



Applications

PEST-Duct® is a specially manufactured HDPE duct that is used where additional mechanical protection of cable is of primary importance. Suitable for both aerial and buried installation, this construction combines the protection of a metal armor with the low cable pulling friction and low dielectric constant of HDPE. It is shipped with sealed ends to prevent entry of moisture and other contaminants.

PEST-Duct can be supplied empty, with a pull line, or with Draka cables preinstalled. Conductors available include THHN/THWN, EPRUSE, XHHW-2, RHH/RHW-2, XLP-USE, L-824B or C airport lighting cable, fiber optic cable, paired communication/coax cables, aluminum conductors and medium voltage cables. Tests have shown that the average lightning resistivity of PEST-Duct is up to 140kV.

Specifications and Ratings

- ASTM D3485 – Standard specification for smooth wall coilable polyethylene (PE) conduit (duct) for preassembled wire and cable
- HDPE meets the requirements (Class C, Grade PE33) of ASTM D3350 – Standard specification for polyethylene plastics pipe and fittings material

Design Parameters

INNERDUCT: Black high density polyethylene (HDPE) meeting ASTM 3350 requirements with TC-7 wall thickness.

ARMOR: 6 mil steel with adhesive polymer applied to one side. The minimum bond strength of the steel to the outer jacket is 4 lbs. per square inch.

JACKET: 660 mil thick HDPE meeting ASTM 3350, nominally orange or black but can be colored to your specifications.

The duct is composed of black (other colors available), high-density polyethylene meeting the requirements (Class C, Grade PE33) of ASTM 3350 – Standard Specification for Polyethylene Plastics Pipe and Fittings Material.

Prysmian Group

4 Tesseneer Drive | Highland Heights, KY 41076 | +1-859-572-8000 | website: na.prysmiangroup.com

Sales and Distribution:

One Tamaqua Blvd. | Schuylkill Haven PA 17972 | +1-570-385-4381

PEST-Duct

(PolyEthylene Steel Tape)

Duct Trade Size in (mm)	Inner Diameter Nominal in (mm)	Wall Thickness Minimum in (mm)	Wall Thickness Tolerance +/- in (mm)	Outside Diameter Nominal in (mm)	Outside Diameter Tolerance +/- in (mm)	Weight Nominal Lbs/Mft (Kg/Km)	Crush Force to 50% Diameter mlbs/mft	Bend Radius Nominal in	Pulling Tension lbs
.75 (19.1)	.910 (23.1)	.06 (1.5)	.02 (.51)	.06 (1.5)	1.24 (34.5)	281	n/a	15	n/a
1.00 (25.4)	1.15 (29.2)	.075 (1.9)	.02 (.51)	.06 (1.5)	1.51 (38.4)	408	640	16.75	1120
1.25 (31.8)	1.44 (36.6)	.10 (2.5)	.02 (.51)	.06 (1.5)	1.65 (41.9)	548	700	20.5	1395
1.50 (38.1)	1.65 (41.8)	.115 (2.9)	.02 (.51)	.06 (1.5)	2.10 (53.3)	656	707	23.25	1588
2.00 (50.8)	2.07 (52.6)	.145 (3.7)	.02 (.51)	.06 (1.5)	2.57 (65.3)	904	750	28.5	1754

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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