

Polywater® Pull-Planner™ 4.0

CABLE PULLING SOFTWARE

Program for Cable Pulling Tension Calculation and Conduit System Design

Pull-Planner 4.0 Report													
Pull Description: Pull Example Pull Filename: Pull-Planner Flyer Printout 10-11-17.xpl Conduit ID: 4 Inch(es) Conduit Fill: 27% Total of 3 cable(s) of 1 different type(s) being pulled. Type #1 3 Cable(s) O.D. of 1.2 inch(es) weight of 1.105 lbs/ft Total cable weight: 3.315 lbs/ft Calculated weight correction factor: 1.24 Configuration: Cradled Jam/Clearance Analysis: Jamming Not Probable Incoming Tension: 300 lbs Pull COF: 0.1							Polywater® LZ with Jacket: LLDPE and Conduit: Rigid Steel Pull Detail Summary Total (Cumulative) Bend: 315 degrees Total Length Including Bends: 824 feet Conduit Fill 27 % Total Cable Weight: 3.3 lbs per foot Conduit Condition: Poor Recommended Quantity : 9 Gallons Lubricant Notes Lubricant Best COF Value: 0.100 Un-Lubricated COF Value: 0.450 * Additional lubricant in recommended quantity based on long pull length. * Additional lubricant in recommended quantity based on total degree of bend. * Additional lubricant in recommended quantity based on conduit condition.						
Seg #	Straight Section Slope (°)	Slope Direction	Straight Section Length (ft)	Straight Section COF	Tension (lbs)	Bend Type	Bend Direction	Bend Radius (ft)	Bend Angle (°)	Bend Length (ft)	Bend COF	Tension (lbs)	Sidewall Pressure (lbs/ft)
1	90.0	Down	8.0	0.1	273.48	Vertical Up	Down	3.00	90.0	4.7	0.1	320.00	61.00
2	—	—	200.00	0.1	402.21	Horizontal	—	3.00	45.0	2.4	0.1	443.00	85.00
3	—	—	500.00	0.1	648.53	Horizontal	—	3.00	90.0	4.7	0.1	788.00	151.00
4	—	—	100.00	0.1	829.11	Vertical Up	Up	3.00	90.0	4.7	0.1	1017.00	194.00

Conduit design printout from the Pull-Planner 4.0

PRODUCT BENEFITS

- **Intuitive Operation:** User-friendly menus and control buttons.
- **Customized Database:** Unlimited number of cables can be put in easy-to-use database.
- **Flexible:** Push/pull, variable friction, rollers, pull reverse, back calculation, and more.
- **Operates on Standard Windows®:** Allows data transfer for word processing, printing, and saving.
- **Universal:** Runs metric or English units.

Achieve Longer Pulls by Keeping Tension Low

Pull-Planner™ 4.0 for Windows® calculates cable pulling tension and sidewall pressure around bends using the pulling equations. The Pull-Planner 4.0 also utilizes industry standards to calculate maximum pulling tension and conduit fill. Plan conduit systems prior to the pull.



Cable tension gauges



Large cable pulling machine



Amp-type tensiometer



Portable heavy-duty cable puller

Pulling Wire and Cables the Right Way is Critical

Make the right decision on cable pull direction. The Pull-Planner 4.0 easily shows optimal pull direction. It helps eliminate splices, plan for future system upgrades, and reduce the chances of cable damage. An excellent tool for cable system specification.

POLYWATER PULL-PLANNER 4.0

Catalog #	Package Description	Units/Case
PP-40	Internet Download	1

SPECIFICATIONS AND APPLICATIONS:

- **System Requirements:** Pull-Planner 4.0 for Windows is available exclusively as an Internet download. It runs on numerous Windows operating systems. Total installation consumes 30 megabytes of hard drive space.
- **Previous Versions:** Accepts pull and cable data saved under the previous Pull-Planner software versions.
- **Training:** On-site seminars and webinars are available. Video tutorial is located on the Pull-Planner 4.0 web page. Please call us to set up an engineering seminar for your company.

CONTACT US

1-800-328-9384 Toll Free

1-651-430-2270 Main

1-651-430-3634 Fax

email: support@polywater.com

IMPORTANT NOTICE: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

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American
Polywater[®]
 Corporation

11222 60th Street N | Stillwater, MN 55082 USA