



olutions at work

Part No.	Description							
J-128	3.8L Bucket							
J-640	19L Drum							
J-DRUM	208L Drum							
J-99	950ml Front End Pack Suits 40mm - 75mm Conduits							
J-110	1.9L Front End Pack Suits 75mm+ Conduits							



CLICK or SCAN for Polywater J Application

utions at work.



J Lubricant - Polywater

Part No. Various

Polywater Lubricant J is a high performance, clean, slow-drying, water-based gel lubricant. Lubricant J provides maximum tension reduction in all types of cable pulling. It is especially recommended for long pulls, multiple-bend pulls and pulls in a hot environment. Lubricant J dries to form a thin lubricating film which retains its lubricity for months after use.

Polywater Lubricant J is a specification-grade lubricant that does not promote flame propagation when used with fire-retardant cables and systems. It is harmless to humans, environmentally safe, compatible with common Australian cable jacket materials, and can be easily applied as part of the unique Polywater® Lubricant Application System.

Features

- High performance cable lubricant for heavy cable installations
- Maximum Friction Reduction
- High Cling Factor
- Compatible with common Australian cables
- Temperature Stable

- Non-Combustible Residue
- Specification Grade "J" The lubricant contain no waxes, greases, silicones, or polyalkylene glycol oils
- Application System available in 'Front End Packs'
- Complete cleanup is possible with water

J Front End Pack™ Lubricant - Polywater

Part No. J-99 & J-110

The front end pack is a conduit-sized polyethylene bag of lubricant. The Front End Pack™ travels through the conduit on the winch line prelubricating the conduit ahead of the cable being pulled.

Polywater® Front End Packs



CALCULATE AMOUNT of LUBE REQUIRED

Click the above to calculate the quantity of lube required for your project



- Fibre Optic
- Low-Smoke Zero Halogen
- **High Water Environments**
- **Cable Blowing**
- Winter Conditions

FULL RANGE OF CABLE LUBRICANTS TO SUIT ALL APPLICATIONS

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Program for Cable Pulling Tension Calculation and Conduit System Design



Cable Pull Planning Software - Polywater

Pull-Planner[™] 4.0

Design Safe and Efficient Cable Pulls with Pull-Planner™ 4.0

Pull-Planner 4.0 makes the planning of small or complex, large-scale cable pulling projects easier and more efficient.

Providing coefficient of friction (COF) guidance to reduce risks during cable pulls.

Calculates maximum pulling and sidewall tensions to reduce joints and avoid cable damage

Benefits

- Calculate pulling tensions and sidewall loadings during your job planning
- Provide a detailed pull plan to your client for sign off
- Understand your coefficient of friction and maximise the length of run, based on using a high quality or specification grade lubricant*
- See the difference in varying coefficients of friction and determine the significant value created using a specification grade lubricant from Polywater
- Resource your job with the most suitable equipment
- Designers can minimise the number of pulling pits required in a cable run, saving considerable time and money
- Calculate the impact of bends, multiple cables, rollers/sheaves, pushing devices and back tension off drums and direction of pull
- Ability to provide a field based COF once the cable pull is complete

Pull-Planner™ Report

Typical Pull-Planner™ Report

Polywater® J with Jacket: HDPE and Conduit: PVC Pull Name: 1C 630mm2 132kV HDPE Cable 150mm Conduit Pull Detail Summarv Recommended Quantity : 185 Liters Total (Cumulative) Bend: 211.6 degrees Total Length Including Bends: 909 meters Conduit Fill 42.4 % Total Cable Weight: 12.8 kgs per meter Conduit Condition: Good Conduit ID: 150 millimeter(s) Conduit Fill: 42.4% Lubricant Notes Total of 1 cable(s) of 1 different type(s) being pulled. Lubricant Best COF Value: 0.090 Un-Lubricated COF Value: 0.390 Type #1 1 Cable(s) O.D. of 97.6 mm weight of 12.8 kgs/m * Additional lubricant in recommended ou * Additional lubricant in recommended quantity based on long pull length. Total cable weight: 12.8 kgs/m Weight correction factor set to: 1 Configuration: Single Cable Jam/Clearance Analysis: Jamming Not Possible Incoming Tension: 0 kN Pull COF: 0.11

Seg #	Straight Section Slope (*) (*)	Slope Direction	Straight Section Length (m)	Straight Section COF	Tension (kN)	Bend Type	Bend Direction	Bend Radius (m)	Bend Angle (*)	Bend Length (m)	Bend COF	Tension (kN)	Sidewall Pressure (kN/m)
1			100.0	0.11	1.38	Horizontal		6.00	11.3	1.2	0.11	1.42	0.24
2			55.0	0.11	2.17	Horizontal		6.00	90.0	9.4	0.11	2.61	0.43
3			212.0	0.11	5.53	Horizontal		6.00	33.0	3.5	0.11	5.90	0.98
4			115.0	0.11	7.49	Horizontal		6.00	33.0	3.5	0.11	7.98	1.33
5			80.0	0.11	9.08	Horizontal		6.00	33.0	3.5	0.11	9.68	1.61
6			215.0	0.11	12.65	Horizontal		6.00	11.3	1.2	0.11	12.93	2.15
7			110.0	0.11	14.45	None					0.11	14.45	

re Puli-Planner™ 4.0 Software uses the cable pulling (tension estimation) equations common in technical studies and included in a number of the software database are laboratory measurements. A number of field factors can influence the effective coefficient of friction. Engineering ju the selection of appropriate friction coefficients for use in the calculations. industry standards. The friction coe





SCAN or CLICK to view Polywater's Cable Jacket Coefficient of Friction Test methods



Contact TEN for further information on how the Planner can help your cable pull work better.

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