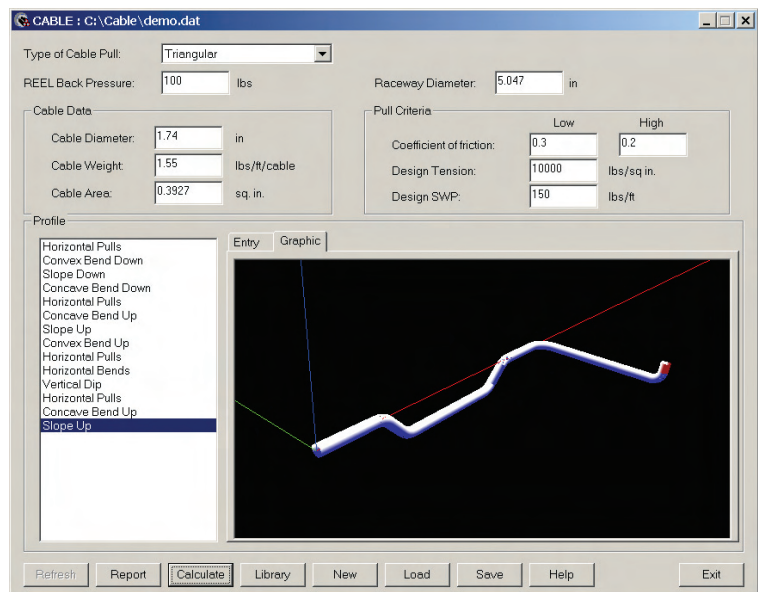# PTW CABLE 3D

Cable Pulling Analysis

CABLE quickly solves complex three-dimensional cable pulling tension and sidewall pressure calculations, allowing you to make rapid and accurate design decisions. Don't leave installation to chance.

Benefits

- Eliminate costly cable damage.
- Save time with graphical entry and display.
- Communicate designs more easily with professional reports and graphs.
- Evaluate alternatives quickly and easily to establish an optimal design.
- CABLE is an important tool every power system engineer, designer and contractor needs.

	FORWARD PULL				REVERSE PULL			
Section Length	Total Pounds	Total lbs/ft	SWP Limits	PULL Length	Total Pounds	Total	SWP lbs/ft	PULL Limits
1	50.0	182.0		PASS	452.1	2252.4		PASS
2	65.7	237.1	7.0	PASS	402.1	2170.4	63.8	PASS
3	85.7	194.5		PASS	386.4	1600.2		PASS
4	101.4	197.3	5.8	PASS	366.4	1511.2	44.4	PASS
5	201.4	361.3		PASS	350.7	1143.2		PASS
6	217.1	479.8	14.1	PASS	250.7	979.1	28.8	PASS
7	237.1	568.7		PASS	235.0	787.1		PASS
8	252.8	809.6	23.8	PASS	215.0	829.7	24.4	PASS
9	302.8	891.6		PASS	199.3	631.2		PASS
10	334.2	1554.7	45.7	PASS	149.3	549.2	16.1	PASS
11	434.2	2062.1	9.7	PASS	117.9	311.0	1.5	PASS
12	444.2	2078.5		PASS	17.9	147.0		PASS
13	452.1	3027.1	427.4	FAIL	7.9	130.6	15.4	PASS

Analysis Options

- Calculates cumulative pulling tension through each pull profile
- Calculates side wall pressure for each segment of the pull profile
- Calculates jam ratios, clearances and percent fills
- Automatically calculates forward and reverse pulls through each pull profile
- Simulates single, triangular, cradled and diamond cable configurations
- Suitable for any type of cable and pulling profile

Interface Options

- Unlimited pulling profiles
- Unlimited segments in each pulling profile
- Cable, raceway and lubricant library
- 3-D graphical display
- Extensive on-line help
- Simple single-screen interface

CABLE : C:\Cable\demo.dat

Type of Cable Pull: Triangular

REEL Back Pressure: 100 lbs   Raceway Diameter: 5.047 in

Cable Data

Cable Diameter: 1.74 in

Cable Weight: 1.55 lbs/ft/cable

Cable Area: 0.3927 sq. in.

Pull Criteria

	Low	High
Coefficient of friction:	0.3	0.2
Design Tension:	10000	lbs/sq in.
Design SWP:	150	lbs/ft

Profile

Horizontal Pulls
Convex Bend Down
Slope Down
Concave Bend Down
Horizontal Pulls
Concave Bend Up
Slope Up
Convex Bend Up
Horizontal Pulls
Horizontal Bends
Vertical Dip
Horizontal Pulls
Convex Bend Down
Slope Down

Entry | Graphic

Section Pull Type: Convex Bend Down

Length: 15.708 ft

Radius: 20 ft

Angle: 45 deg

Add Section
Delete Section

Forward Pull   PASS

Tension: 237.069 lbs

SWP: 6.969 lbs/ft

Reverse Pull   PASS

Tension: 1960.427 lbs

SWP: 57.633 lbs/ft

Refresh Report Calculate Library New Load Save Help Exit

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