

ezPlan™ Short Span (≤350 ft) Heavy Load



Cable Part Numbers

Count	Prysmian Part Number	Cable OD	Tube OD	F/Tube	Tube Type	Installed Sag	Loading	Max Span
12	X-ADES1075-12-HB-012-E3	0.496"	3mm	12	Gel PP	1.50%	NESC Heavy	350'
24	X-ADES1075-12-HB-024-E3							
48	X-ADES1075-12-HB-048-E3							
72	X-ADES1075-12-HB-072-E3							
96	X-ADLS1115-24-HB-096-E3			24	Gel PBT			
144	X-ADLS1115-24-HB-144-E3	355'						

Pole-Line Part Numbers

Description	PLP#	Cable OD Range in. (mm)	Max. Install lbf	Max. MRCL lbf	Max. Dist. ft	Max. Deg.	M.x. Deg. String.
Limited tension dual layer DE with C1E1 thimble clevis extension link	2872100C1E1	0.482–0.510 (12.2–12.9)	1000	2500	670		
FiberLign dielectric support (FDS)	44009952	0.476–0.525 (12.2–13.3)			600	20	10
FiberLign aluminum support (FAS)	4450100	0.476–0.525 (12.2–13.3)			600	20	10
Aluminum suspension (FASN) with shackle, without support rods	4450200S	0.476–0.525 (12.2–13.3)			600	30	
Aluminum suspension (FASN) with support rods and shackle	4470200S	0.476–0.500 (12.01–12.7)			1200	30	
Dielectric suspension for ADSS with shackle & eye nut	43004061S	0.477–0.503 (12.1–12.7)				40	
Plastic down lead cushion	8003042	0.469–0.562 (11.9–14.2)					
Plastic down lead cushion with H1 wood pole hardware	8003042H1	0.469–0.562 (11.9–14.2)					
Plastic down lead cushion with LTC2 lite duty lattice tower adapter	8003042LTC2	0.469–0.562 (11.9–14.2)					
Plastic down lead cushion with LTC1 standard duty lattice tower adapter	8003042LTC1	0.469–0.562 (11.9–14.2)					
Plastic down lead cushion with B1 (710010576) banding bracket	8003042B1	0.469–0.562 (11.9–14.2)					
FiberLign CLAS non-metallic storage system with uni-group guide & heavy duty cable ties	710012375U	0.400–1.000					
Dielectric spiral stamper	50502274	0.462–0.563 (11.72–14.2)					

PLP Closures & Accessories

Description	Description & Comments	PLP PN
COYOTE® ONE Dome Closure ^{1&2}	3-Port Dome Closure for up to a 72 Ct. Splice (1 40Ct. tray included)	800016876
COYOTE® 6.5"x17" Dome Closure ¹	4-Port Dome Closure for up to a 96 Ct. Splice (1 40Ct. tray included)	800016877
COYOTE® 6.5"x22" Dome Closure ¹	4-Port Dome Closure for up to a 216 Ct. Splice (1 72Ct. tray included)	800016878
COYOTE® 9.5"x28" Dome Closure ¹	7-Port Dome Closure for a 288+ Ct. Splice (1 72Ct. tray included)	800016880
LITE-GRIP® Short 40 Ct. Splice Tray	Additional 40 Ct. Splice Tray for use in 800016876 & 800016877	80808945
LITE-GRIP® Long 72 Ct. Splice Tray	Additional 72 Ct. Splice Tray for use in 800016878 & 800016880	LGSTS72
12" Plastic SLACKLOOP® Brackets	2-Pack; for storing slack cable in-span for cables up to 0.60" in diameter	FIS12A

¹ All Fiber Closures include (1) 80808945 or LGSTS72 Splice Tray, (2) 1-Hole 0.40"-0.60" Grommets, (2) 2-Hole 0.42"-0.60" Grommets, (1) 6-Hole 0.125"-0.250" & Flat Drop Grommet and Adjustable Aerial Hanger Bracket Kit

² 800016876 comes with one less 2-Hole 0.42"-0.60" Grommet



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ADSS Sag and Tension Properties



Part Number: X-ADES1075-12-HB-yyy-E3, where yyy = fiber count (012/024/048/072)

Description: 12/24/48/72 count SMF ezSpan (PP 12F/Tube) SJ ADSS 1075lbs 0.496" OD

Fiber Count:	12, 24, 48, 72	Fibers
Maximum Span:	350	Feet
Installation Sag:	1.50	%
Installation Temperature:	60	°F
Fiber Strain:	SafeStrain	

Cable Specifications:

Maximum Rated Cable Load:	1075	Lbs
Cable Diameter:	0.496	In
Cross Sectional Area:	0.193	In ²
Cable Weight:	0.078	Lb/Ft
Ultimate Tensile Strength:	2699	Lbs
Sheath Configuration:	Single Jacket	
Outer Jacket Type:	HDPE	



Loading Conditions: NESC Heavy

Ice Thickness:	0.50	In	
Wind Pressure:	4.0	psf	
Temperature:	0	°F	
Safety Factor:	0.3	Lb/Ft	
Maximum Space Potential:	12.0	kV	Low Pollution per IEEE 1222-2019
Maximum Space Potential:	8.0	kV	High Pollution per IEEE 1222-2019

Maximum Tension at Maximum Span:

Long Term:	228	Lbs
Short Term:	1074	Lbs

Additional Design Information for PLS-CADD & SAG10:

Initial Modulus of Elasticity (Stress-Strain A1):	657 kpsi	6572 psi/100
10-Year Modulus of Elasticity (Creep A1):	604 kpsi	6038 psi/100
Final Modulus of Elasticity:	657 kpsi	6572 psi/100
Coefficient of Thermal Expansion:	0.160E-05 1/°F	0.160E-03 /100°F

Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
35.0	0.5	1.5%	23
70.0	1.1	1.5%	46
105.0	1.6	1.5%	68
140.0	2.1	1.5%	91
175.0	2.6	1.5%	114
210.0	3.2	1.5%	137
245.0	3.7	1.5%	160
280.0	4.2	1.5%	182
315.0	4.7	1.5%	205
350.0	5.3	1.5%	228

Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
35.0	0.6	0.4	232	36	0.7
70.0	1.6	1.1	362	36	1.9
105.0	2.8	2.0	473	36	3.2
140.0	4.1	2.9	574	36	4.7
175.0	5.5	3.9	667	36	6.3
210.0	7.0	5.0	755	36	8.1
245.0	8.6	6.1	839	36	9.9
280.0	10.2	7.3	920	36	11.8
315.0	11.9	8.5	998	36	13.8
350.0	13.7	9.8	1074	36	15.9



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ADSS Sag and Tension Properties (Continued)



Part Number: X-ADLS1115-24-HB-yyy-E3, where yyy = fiber count (096/144)

Description: 96/144 count SMF LongSpan (PBT 24F/Tube) SJ ADSS 1115lbs 0.496" OD

Fiber Count:	96,144	Fibers
Maximum Span:	355	Feet
Installation Sag:	1.50	%
Installation Temperature:	60	°F
Fiber Strain:	SafeStrain	

Cable Specifications:

Maximum Rated Cable Load:	1115	Lbs
Cable Diameter:	0.496	In
Cross Sectional Area:	0.193	In ²
Cable Weight:	0.085	Lb/Ft
Ultimate Tensile Strength:	2811	Lbs
Sheath Configuration:	Single Jacket	
Outer Jacket Type:	HDPE	



Loading Conditions: NESC Heavy

Ice Thickness:	0.50	In	
Wind Pressure:	4.0	psf	
Temperature:	0	°F	
Safety Factor:	0.30	Lb/Ft	
Maximum Space Potential:	12.0	kV	Low Pollution per IEEE 1222-2019
Maximum Space Potential:	8.0	kV	High Pollution per IEEE 1222-2019

Maximum Tension at Maximum Span:

Long Term:	254	Lbs
Short Term:	1114	Lbs

Additional Design Information for PLS-CADD & SAG10:

Initial Modulus of Elasticity (Stress-Strain A1):	685 kpsi	6846 psi/100
10-Year Modulus of Elasticity (Creep A1):	629 kpsi	6290 psi/100
Final Modulus of Elasticity:	685 kpsi	6846 psi/100
Coefficient of Thermal Expansion:	0.160E-05 1/°F	0.160E-03 /100°F

Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
35.7	0.5	1.5%	25
71.4	1.1	1.5%	51
107.1	1.6	1.5%	76
142.8	2.1	1.5%	102
178.5	2.7	1.5%	127
214.2	3.2	1.5%	153
249.9	3.7	1.5%	178
285.6	4.3	1.5%	203
321.3	4.8	1.5%	229
357.0	5.4	1.5%	254

Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
35.7	0.6	0.4	240	35	0.7
71.4	1.6	1.2	375	35	1.9
107.1	2.8	2.0	490	35	3.2
142.8	4.1	2.9	594	35	4.8
178.5	5.5	3.9	691	35	6.4
214.2	7.1	5.0	783	35	8.1
249.9	8.7	6.1	871	35	10.0
285.6	10.3	7.3	955	35	11.9
321.3	12.1	8.5	1036	35	13.9
357.0	13.9	9.8	1115	35	16.0



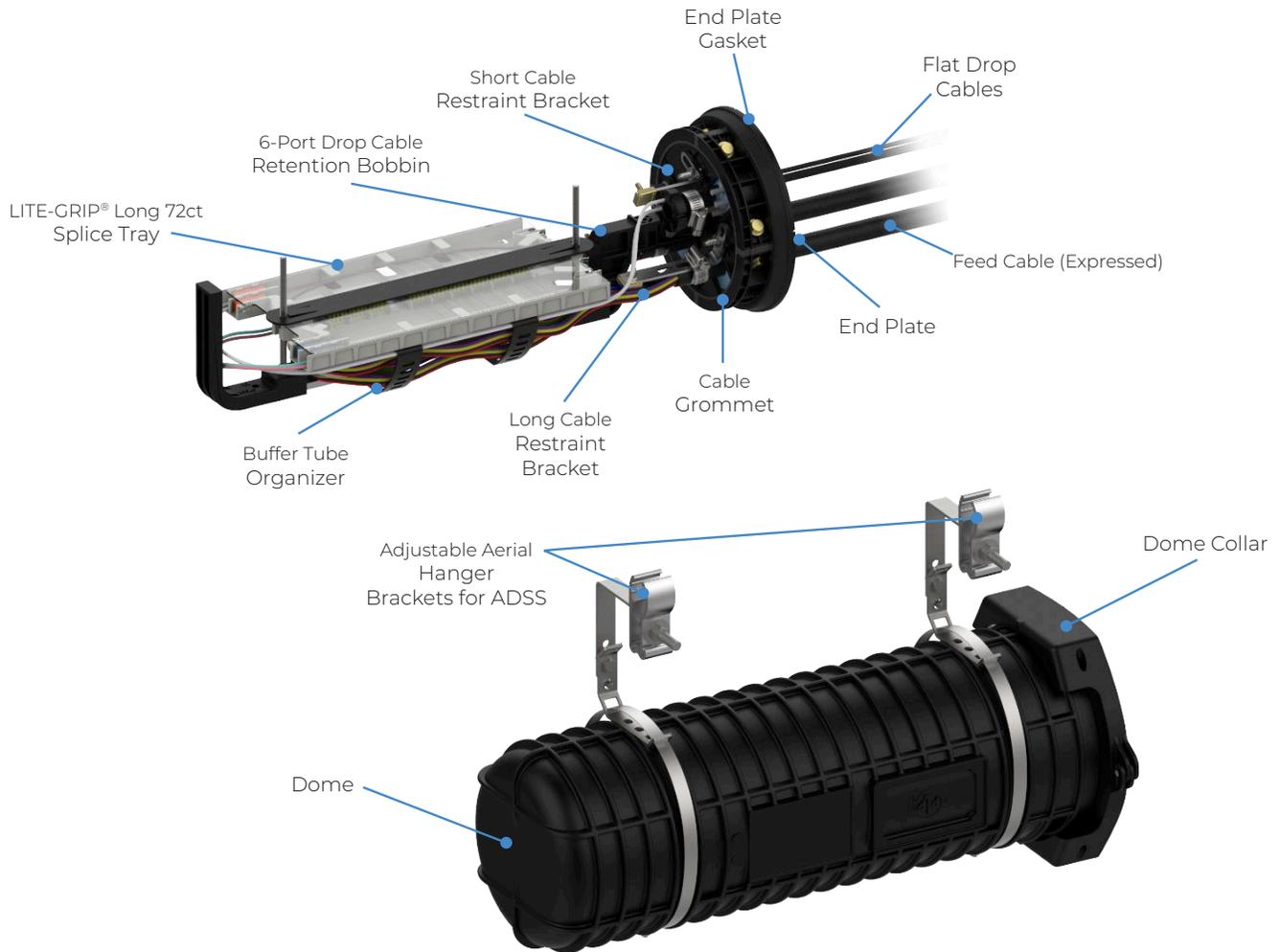
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Typical Closure Configuration

The sample below is a COYOTE® 6.5" x 22" Dome Closure. Dimensions and port counts vary by model, but all are kitted the same way, with the following exceptions:

- The COYOTE® ONE Dome Closure has only three ports and is kitted with one less 2-hole grommet.
- As indicated on page 1, the shorter dome designs are kitted with a 40-count short splice tray.



Bill of Materials

Component	Quantity
4-Port Segmented End Plate with Buffer Tube Organizer	1
Dome End Plate Gasket	1
Dome	1
Dome Collar	1
1 Hole Grommet for Cables Diameters 0.40" - 0.60"	2
2 Hole Grommet for Cables Diameters 0.42" - 0.60"	2
6 Hole Grommet for Cables Diameters 0.125" - 0.25" or Flat Drop Cable	1
6 Port Drop Cable Retention Bobbin	1
Short Cable Retention Bracket w/ Hose Clamp	2
Long Cable Retention Bracket w/ Hose Clamp	2
LITE-GRIP® Long 72 Ct. Splice Tray	1
Adjustable Aerial Hanger Bracket Kit for ADSS Cable	1