

ezPlan™ Short Span

Light/Medium/Heavy Loads



Cable Part Numbers

Count	Prysmian Part Number	Cable OD	Tube OD	F/Tube	Tube Type	Installed Sag	Max Span LIGHT	Max Span MEDIUM	Max Span HEAVY
12	X-ADES1075-12-HB-012-E3	0.496"	3mm	12	Gel PP	1.50%	800'	575'	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		802'	580'	355'
144	X-ADLS1115-24-HB-144-E3								

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.
Medium tension dual layer DE with C1E1 thimble clevis extension link*	2872100C1E1	0.482–0.510 (12.2–12.9)	2000	4000			
Limited tension dual layer DE with C1E1 thimble clevis extension link**	2872004C1E1	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)					

* Light and Medium Load ** Heavy Load

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 (12, 24, 48, 72 Fibers)

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 1525lbs 0.496" OD

	Fiber Count	Maximum Span (Feet)	Installation Sag (%)	Installation Temperature	Fiber Strain
LIGHT	12, 24, 48, 72	800	1.50	60°F	SafeStrain
MEDIUM		575			
HEAVY		350			

Cable Specifications

Maximum Rated Cable Load (Lbs)	Cable Diameter (in)	Cross Sectional Area (in) ²	Cable Weight (Lb/Ft)	Ultimate Tensile Strength (Lbs)	Sheath Configuration	Outer Jacket Type
1075	0.496	0.193	0.0787	2699	Single Jacket	HDPE

Loading Conditions

	Ice Thickness (in)	Wind Pressure (psf)	Temperature	Safety Factor (Lb/Ft)	Maximum Space Potential	Maximum Space Potential
LIGHT	0.00	9.0	30°F	0.10	12.0 kV Low Pollution per IEEE 1222-2019	8.0 kV High Pollution per IEEE 1222-2019
MEDIUM	0.25	4.0	15°F	0.20		
HEAVY	0.50	4.0	0°F	0.30		

Maximum Tension at Maximum Span

	Long Term (Lbs)	Short Term (Lbs)
LIGHT	520	1074
MEDIUM	374	1074
HEAVY	228	1074

Additional Design Information for PLS-CADD & SAG10

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



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ADSS Sag and Tension Properties (12, 24, 48, 72 Fibers)

Part Number: X-ADES1525-12-HB-yyy-E3, where yyy = fiber count (012/024/048/072)

Description: 12/24/48/72 count SMF ezSpan (PP 12F/Tube) SJ ADSS 1525lbs 0.496" OD

LIGHT

Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
79.9	1.2	1.5%	52
159.8	2.4	1.5%	104
239.7	3.6	1.5%	156
319.6	4.8	1.5%	208
399.5	6.0	1.5%	260
479.4	7.2	1.5%	312
559.3	8.4	1.5%	364
639.2	9.6	1.5%	416
719.1	10.8	1.5%	468
799.0	12.0	1.5%	520

Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
79.9	0.4	1.7	198	78	1.1
159.8	0.9	4.1	327	78	2.4
239.7	1.5	6.9	439	78	4.0
319.6	2.1	10.0	542	78	5.5
399.5	2.8	13.3	640	78	7.2
479.4	3.5	16.7	732	78	8.9
559.3	4.3	20.3	821	78	10.6
639.2	5.0	24.0	908	78	12.4
719.1	5.8	27.8	992	78	14.2
799.0	6.7	31.7	1074	78	16.0

MEDIUM

Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
57.4	0.9	1.5%	37
114.8	1.7	1.5%	75
172.2	2.6	1.5%	112
229.6	3.4	1.5%	150
287.0	4.3	1.5%	187
344.4	5.2	1.5%	224
401.8	6.0	1.5%	262
459.2	6.9	1.5%	299
516.6	7.7	1.5%	336
574.0	8.6	1.5%	374

Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
57.4	0.9	0.9	215	47	1.1
114.8	2.1	2.3	345	47	2.8
172.2	3.7	3.9	457	47	4.8
229.6	5.3	5.7	559	47	7.0
287.0	7.1	7.6	654	47	9.4
344.4	9.0	9.7	744	47	11.8
401.8	11.0	11.8	831	47	14.5
459.2	13.1	14.0	914	47	17.2
516.6	15.2	16.3	995	47	19.9
574.0	17.4	18.7	1074	47	22.8

HEAVY

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 (96, 144 Fibers)

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

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

	Fiber Count	Maximum Span (Feet)	Installation Sag (%)	Installation Temperature	Fiber Strain
LIGHT	96, 144	800	1.50	60°F	SafeStrain
MEDIUM		580			
HEAVY		355			

Cable Specifications

	Maximum Rated Cable Load (Lbs)	Cable Diameter (in)	Cross Sectional Area (in) ²	Cable Weight (Lb/Ft)	Ultimate Tensile Strength (Lbs)	Sheath Configuration	Outer Jacket Type
LIGHT	1115	0.496	0.193	0.085	2811	Single Jacket	HDPE
MEDIUM/HEAVY	1115	0.496	0.193	0.085	2811	Single Jacket	HDPE

Loading Conditions

	Ice Thickness (in)	Wind Pressure (psf)	Temperature	Safety Factor (Lb/Ft)	Maximum Space Potential	Maximum Space Potential
LIGHT	0.00	9.0	30°F	0.05	12.0 kV Low Pollution per IEEE 1222-2019	8.0 kV High Pollution per IEEE 1222-2019
MEDIUM	0.25	4.0	15°F	0.20		
HEAVY	0.50	4.0	0°F	0.30		

Maximum Tension at Maximum Span

	Long Term (Lbs)	Short Term (Lbs)
LIGHT	571	1114
MEDIUM	413	1114
HEAVY	254	1114

Additional Design Information for PLS-CADD & SAG10

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



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ADSS Sag and Tension Properties

Part Number: X-ADLS1605-24-HB-yyy-E3, where yyy = fiber count (096/144)

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

LIGHT

Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
80.2	1.2	1.5%	57
160.4	2.4	1.5%	114
240.6	3.6	1.5%	171
320.8	4.8	1.5%	229
401.0	6.0	1.5%	286
481.2	7.2	1.5%	343
561.4	8.4	1.5%	400
641.6	9.6	1.5%	457
721.8	10.8	1.5%	514
802.0	12.0	1.5%	571

Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
80.2	0.4	1.7	203	77	1.1
160.4	0.9	4.0	336	77	2.4
240.6	1.6	6.8	453	77	3.9
320.8	2.2	9.8	560	77	5.5
401.0	3.0	12.9	660	77	7.1
481.2	3.7	16.3	757	77	8.8
561.4	4.5	19.7	850	77	10.5
641.6	5.3	23.3	940	77	12.2
721.8	6.2	27.0	1028	77	14.0
802.0	7.1	30.8	1114	77	15.8

MEDIUM

Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
58.0	0.9	1.5%	41
116.0	1.7	1.5%	83
174.0	2.6	1.5%	124
232.0	3.5	1.5%	165
290.0	4.4	1.5%	207
348.0	5.2	1.5%	248
406.0	6.1	1.5%	289
464.0	7.0	1.5%	331
522.0	7.8	1.5%	372
580.0	8.7	1.5%	413

Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
58.0	0.9	0.9	222	46	1.1
116.0	2.2	2.3	357	46	2.8
174.0	3.7	3.8	473	46	4.8
232.0	5.4	5.6	578	46	7.0
290.0	7.2	7.5	677	46	9.3
348.0	9.1	9.5	771	46	11.8
406.0	11.1	11.6	861	46	14.3
464.0	13.1	13.7	948	46	17.0
522.0	15.3	16.0	1032	46	19.8
580.0	17.5	18.3	1114	46	22.6

HEAVY

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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