

# ezPlan™ Medium 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-ADES1525-12-HB-012-E3	0.496"	3mm	12	Gel PP	1.50%	1140'	820'	500'
24	X-ADES1525-12-HB-024-E3								
48	X-ADES1525-12-HB-048-E3								
72	X-ADES1525-12-HB-072-E3								
96	X-ADLS1605-24-HB-096-E3			24	Gel PBT		1155'	835'	515'
144	X-ADLS1605-24-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 <sup>1&amp;2</sup>	3-Port Dome Closure for up to a 72 Ct. Splice (1 40Ct. tray included)	800016876
COYOTE® 6.5"x17" Dome Closure <sup>1</sup>	4-Port Dome Closure for up to a 96 Ct. Splice (1 40Ct. tray included)	800016877
COYOTE® 6.5"x22" Dome Closure <sup>1</sup>	4-Port Dome Closure for up to a 216 Ct. Splice (1 72Ct. tray included)	800016878
COYOTE® 9.5"x28" Dome Closure <sup>1</sup>	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

<sup>1</sup> 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

<sup>2</sup> 800016876 comes with one less 2-Hole 0.42"-0.60" Grommet



**Prysmian**

4 Tessenere Drive, Highland Heights, KY 41076  
na.prysmian.com  
TLS-DS-A-517 1124

# ezPlan™ Medium Span

## Light/Medium/Heavy Loads



### 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

	Fiber Count	Maximum Span (Feet)	Installation Sag (%)	Installation Temperature	Fiber Strain
LIGHT	12, 24, 48, 72	1140	1.50	60°F	SafeStrain
MEDIUM		820			
HEAVY		500			

### Cable Specifications

Maximum Rated Cable Load (Lbs)	Cable Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Cable Weight (Lb/Ft)	Ultimate Tensile Strength (Lbs)	Sheath Configuration	Outer Jacket Type
1525	0.496	0.193	0.077	3823	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	732	1574
MEDIUM	526	1524
HEAVY	320	1524

### 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
931 kpsi 9310 psi/100	855 kpsi 8554 psi/100	931 kpsi 9310 psi/100	0.1.60E-05 1/°F 0.1.60E-03 /100°F



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LIGHT

#### Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
113.9	1.7	1.5%	73
227.8	3.4	1.5%	146
341.7	5.1	1.5%	220
455.6	6.8	1.5%	293
569.5	8.5	1.5%	366
683.4	10.3	1.5%	439
797.3	12.0	1.5%	513
911.2	13.7	1.5%	586
1025.1	15.4	1.5%	659
1139.0	17.1	1.5%	732

#### Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
113.9	0.5	2.4	281	78	1.5
227.8	1.2	5.9	464	78	3.5
341.7	2.1	9.9	624	78	5.6
455.6	3.0	14.3	770	78	7.9
569.5	3.9	19.0	908	78	10.3
683.4	5.0	23.9	1039	78	12.7
797.3	6.0	29.1	1166	78	15.2
911.2	7.1	34.4	1288	78	17.7
1025.1	8.3	39.9	1408	78	20.3
1139.0	9.4	45.5	1524	78	22.8

MEDIUM

#### Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
81.8	1.2	1.5%	53
163.6	2.5	1.5%	105
254.4	3.7	1.5%	158
327.2	4.9	1.5%	210
409.0	6.1	1.5%	263
490.8	7.4	1.5%	316
572.6	8.6	1.5%	368
654.4	9.8	1.5%	421
736.2	11.0	1.5%	473
818.0	12.3	1.5%	526

#### Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
81.8	1.2	1.3	306	47	1.6
163.6	3.1	3.3	490	47	4.1
254.4	5.2	5.6	649	47	6.9
327.2	7.6	8.2	794	47	10.0
409.0	10.1	10.9	959	47	13.4
490.8	12.9	13.8	1057	47	16.9
572.6	15.7	16.9	1179	47	20.7
654.4	18.7	20.1	1298	47	24.5
736.2	21.7	23.4	1412	47	28.5
818.0	24.9	26.8	1524	47	32.6

HEAVY

#### Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
49.8	0.7	1.5%	32
99.6	1.5	1.5%	64
149.4	2.2	1.5%	96
199.2	3.0	1.5%	128
249.0	3.7	1.5%	160
298.8	4.5	1.5%	192
348.6	5.2	1.5%	224
398.4	6.0	1.5%	256
448.2	6.7	1.5%	288
498.0	7.5	1.5%	320

#### Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
49.8	0.9	0.6	329	36	1.0
99.6	2.3	1.6	514	36	2.6
149.4	3.9	2.8	671	36	4.6
199.2	5.8	4.2	814	36	6.7
249.0	7.8	5.6	947	36	9.0
298.8	9.9	7.1	1072	36	11.5
348.6	12.2	8.7	1191	36	14.1
398.4	14.6	10.4	1306	36	16.9
448.2	17.0	12.2	1417	36	19.7
498.0	19.5	14.0	1524	36	22.6

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## Light/Medium/Heavy Loads



### ADSS Sag and Tension Properties (96, 144 Fibers)

**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 1605lbs 0.496" OD

	Fiber Count	Maximum Span (Feet)	Installation Sag (%)	Installation Temperature	Fiber Strain
LIGHT	96, 144	1155	1.50	60°F	SafeStrain
MEDIUM		835			
HEAVY		515			

### Cable Specifications

	Maximum Rated Cable Load (Lbs)	Cable Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Cable Weight (Lb/Ft)	Ultimate Tensile Strength (Lbs)	Sheath Configuration	Outer Jacket Type
LIGHT	1605	0.496	0.193	0.085	2811	Single Jacket	HDPE
MEDIUM/HEAVY	1605	0.496	0.193	0.085	4048	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	821	1604
MEDIUM	594	1605
HEAVY	365	1605

### 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
986 kpsi 9858 psi/100	906 kpsi 9057 psi/100	986 kpsi 9858 psi/100	0.160E-05 1/°F 0.160E-03 /100°F

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**Description:** 96/144 count SMF LongSpan (PBT 24F/Tube) SJ ADSS 1605lbs 0.496" OD

LIGHT

#### Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
115.2	1.7	1.5%	82
231.2	3.5	1.5%	164
346.8	5.2	1.5%	246
462.4	6.9	1.5%	328
578.0	8.7	1.5%	411
693.6	10.4	1.5%	493
809.2	12.1	1.5%	575
924.8	13.9	1.5%	657
1040.4	15.6	1.5%	739
1156.0	17.3	1.5%	821

#### Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
115.2	0.6	2.4	293	77	1.5
231.2	1.3	5.8	484	77	3.5
346.8	2.2	9.8	652	77	5.7
462.4	3.2	14.1	806	77	7.9
578.0	4.3	18.7	951	77	10.3
693.6	5.4	23.5	1090	77	12.7
809.2	6.5	28.5	1224	77	15.2
924.8	7.7	33.7	1354	77	17.7
1040.4	8.9	39.0	1480	77	20.2
1156.0	10.2	44.5	1604	77	22.7

MEDIUM

#### Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
83.6	1.3	1.5%	59
167.2	2.5	1.5%	119
250.8	3.8	1.5%	178
334.4	5.0	1.5%	238
418.0	6.3	1.5%	297
501.6	7.5	1.5%	356
585.2	8.8	1.5%	416
668.8	10.0	1.5%	475
752.4	11.3	1.5%	534
836.0	12.5	1.5%	594

#### Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
83.6	1.2	1.3	320	46	1.6
167.2	3.1	3.3	514	46	4.1
250.8	5.3	5.6	681	46	6.9
334.4	7.7	8.1	833	46	10.1
418.0	10.3	10.8	975	46	13.4
501.6	13.1	13.7	1111	46	17.0
585.2	15.9	16.7	1240	46	20.7
668.8	18.9	19.8	1365	46	24.6
752.4	22.0	23.1	1487	46	28.5
836.0	25.2	26.4	1605	46	32.6

HEAVY

#### Installation

Span Ft	Installation Sag		Install Tension Lb
	Ft	% Span	
51.4	0.8	1.5%	37
102.8	1.5	1.5%	73
154.2	2.3	1.5%	110
205.6	3.1	1.5%	146
257.0	3.9	1.5%	183
308.4	4.6	1.5%	219
359.8	5.4	1.5%	256
411.2	6.2	1.5%	292
462.6	6.9	1.5%	329
514.0	7.7	1.5%	365

#### Maximum Loading Conditions

Span Ft	Loaded Vert. Sag Ft	Loaded Horiz. Sag Ft	Maximum Tension Lb	Cable Angle Degrees	No Wind Vert. Sag Ft
51.4	0.9	0.6	346	35	1.0
102.8	2.3	1.7	540	35	2.7
154.2	4.0	2.9	705	35	4.7
205.6	5.9	4.2	856	35	6.8
257.0	8.0	5.7	995	35	9.2
308.4	10.2	7.2	1127	35	11.7
359.8	12.5	8.8	1253	35	14.4
411.2	14.9	10.5	1374	35	17.2
462.6	17.4	12.3	1491	35	20.0
514.0	19.9	14.1	1605	35	23.0



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4 Tesseneer Drive, Highland Heights, KY 41076  
na.prysmian.com  
TLS-DS-A-517 1124