

OPGW and ADSS Fiber Cable For Overhead Transmission Lines



PRYSMIAN GROUP

VISION, MISSION, VALUES

Vision

The Prysmian Group believes in the effective, efficient and sustainable supply of Energy and Information as a primary driver in the development of communities



Mission

The Prysmian Group provides its customers worldwide with superior cable solutions based on pioneering technology and consistent excellence in execution, ultimately delivering sustainable growth and profit.



Values

Excellence

Every day we relentlessly pursue excellence in all we do

Understanding

We listen closely to our customers to really understand their needs

Integrity

We uphold the highest standards of integrity in our actions



Prysmian Group

Market, innovation and technology leader in the global cables industry.

Prysmian Group is world leader in the energy and telecom cables and systems industry. With more than 130 years of experience, sales in excess of 8 billion dollars in 2016, over 19,000 employees in 50 countries and 88 production sites, the Group offers the widest possible range of products, services, technology and know-how for every type of industry thanks to an extensive commercial presence and 17 R&D centers in Europe, the United States, South America and China, with more than 500 qualified R&D professionals.

Prysmian is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.



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Linking the Future

As the worldwide leader in the energy and telecom cable industries, Prysmian Group believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities.

With this in mind, we provide major global organizations in many industries with best-in-class cable solutions, based on state-of-the-art technology. Through two renowned commercial brands – Prysmian and Draka – based in almost 100 countries, we're constantly close to our customers, enabling them to further develop the world's energy and telecoms infrastructures, and achieve sustainable, profitable growth.

Introducing fiber optic systems for Overhead Transmission Lines

Overhead optical fiber cable systems have become a key factor in telecommunication networks used by operators and power utilities.

Due to the fact that minimal civil works are required and the rights of way have already been established, it is possible to minimize costs and, most importantly, the time required to begin network operation.

Prysmian offers its customers a broad range of fiber optic cables for overhead cable networks:

Optical Ground Wire (OPGW)

Composite optical ground wire system for installation on high voltage electric lines.

All Dielectric Cable (ADSS)

Self-supporting optical cable for all types of lines:

transport electrical lines, distribution electrical lines, railways lines, etc.

The main advantages of Prysmian's solutions include the following:

High reliability and proven experience

We have installed over 200,000km (124,000 miles) of OPGW since 1983 in more than 100 countries in all five continents.

Manufacturing capabilities

Prysmian has a growing production capacity of more than 25,000km of OPGW cables per year in three different continents; Europe, America and Asia.

OHSAS 18001 and ISO 14001

Prysmian Group is involved in implementing management and production processes which help improve environmental sustainability and safety at work, in accordance with the guidelines of its HSE policy.

ISO 9001 and TL9000

The Prysmian brand has always been a guarantee for the supply of products and services based on common worldwide quality standards. Prysmian has a built-in multi-step quality assurance program, which covers the entire production process from cable design and raw materials purchasing, to final inspection and testing documentation.

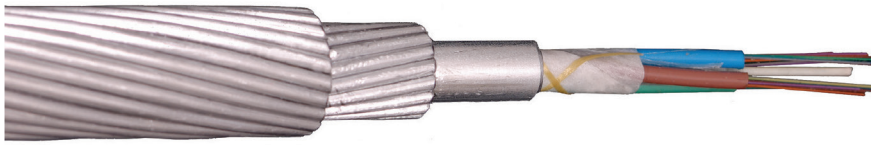
Full range of technologies

Because we own all of the required technology, we provide every customer with the most appropriate and relevant technical solution for any single project. Prysmian Group never has a pre-determined answer to a challenge - instead, we always recommend the best solution on a case-by-case basis.



PureCore™ OPGW

Aluminum Central Tube Cable



Optical Power Ground Wire for Transmission Applications

Overview

Prysmian's PureCore™ OPGW cables are typically custom-designed to best match the optical, electrical, mechanical, quality and cost requirements of each individual project. This includes optimizing diameter, weight, breaking strength and short circuit capacity. However, some "REFERENCE DESIGNS" are presented here. The core consists of optical fibers contained in one or more loose buffer tubes allowing the fibers to be free from strain even at high operating loads. In areas where there is high contamination or close proximity to the ocean, Prysmian recommends a grease coating on the outer armor layer.

Product Snapshot

Applications	Prysmian's PureCore™ OPGW provides increased conductivity without sacrificing tensile performance, lightning resistance or limiting fiber count. It is best suited to applications with moderate to high electrical, tensile and/or fiber count requirements.
Construction Options	Single or double armor layers, Single or multiple buffer tubes within the core tube, Right or left-hand stranding lay (on single armor)
Fiber Count	Up to 288 fibers in buffer tubes
Fiber Types	Standard Single Mode (G.652.D), Bend-Insensitive Single Mode (G.657), and NZDSF
Performance	Meets or exceeds IEEE-1138-2009, tested in accordance with relevant EIA-455 FOTPs for fiber optic cables
Other Versions	StrandCore™, CladCore™
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHS AS 18001

Features and Benefits

Extruded Aluminum Core Tube

- Superior combination of crush and kink resistance
- Core tube can safely and easily be routed to closures without armor
- Easy access to optical core

Superior Corrosion Resistance

- No exposed stainless steel to induce corrosion of aluminum elements
- Meets IEEE construction guidelines for use in high corrosion sites

Superior Electrical Performance

- Aluminum core tube substantially increases conductor cross-section

Superior Lightning Resistance

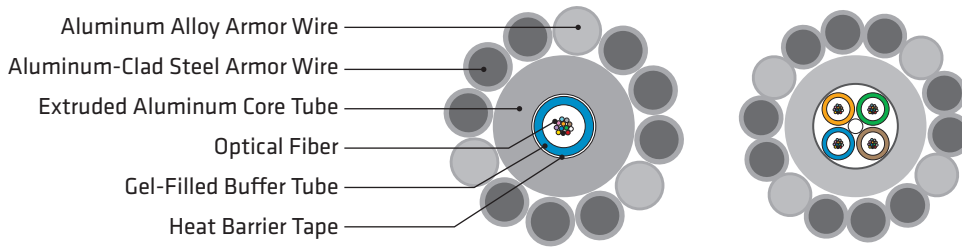
- Fewer aluminum alloy wires are needed to meet electrical specs
- More/heavier duty ACS wires can be used
- AA wires can be completely replaced with ACS in some applications

High Performance Even in High Fiber Counts

- All fibers are housed in the core tube
- A core tube is available in a wide range of inside diameters
- Armor wires are not replaced with fiber tubes in high count designs
- Electrical and mechanical properties can be maintained

PureCore™ OPGW

Optical ground wires with capacity up to 96 optical fibers



Fiber Count (max)	OPGW Reference	Fault Current (kA) ² sec	Total Conductor Current		Overall Diameter		Weight		RBS		SAG 10 Chart #
			Inches ²	mm ²	Inches	mm	lbs/ft	kg/m	lbs	kg	
12	OPGW 18A46 (7546)	41	0.1232	79.5	0.466	11.8	0.308	0.458	16226	7360	1-1421
12	OPGW 18B34 (7521)	51	0.1232	79.5	0.466	11.8	0.228	0.340	10362	4700	1-1439
12	OPGW 28C56 (7520)	56	0.1468	94.7	0.506	12.8	0.374	0.556	20349	9230	1-1442
12	OPGW 28D43 (7562)	70	0.1468	94.7	0.506	12.8	0.288	0.428	13735	6230	1-917
24	OPGW 34D55 (7522)	68	0.1500	96.5	0.529	13.4	0.367	0.546	18409	8350	1-1450
24	OPGW 34D43 (7772)	81	0.1500	96.5	0.529	13.4	0.287	0.427	12147	5510	1-1439
24	OPGW 40E61 (7557)	81	0.1650	106.6	0.553	14.0	0.410	0.611	21142	9590	1-1453
24	OPGW 40F46 (7523)	98	0.1650	106.6	0.553	14.0	0.311	0.463	13558	6150	1-1438
36	OPGW 45F62 (7524)	95	0.1765	113.9	0.571	14.5	0.415	0.617	20569	9330	1-1461
36	OPGW 45G49 (7525)	110	0.1765	113.9	0.571	14.5	0.327	0.486	13801	6260	1-1438
36	OPGW 54H73 (7526)	118	0.2018	130.2	0.608	15.4	0.487	0.725	24846	11270	1-1457
36	OPGW 54J57 (7527)	141	0.2018	130.2	0.608	15.4	0.381	0.567	16667	7560	1-1439
48	OPGW 64K78 (7540)	151	0.2227	143.7	0.647	16.4	0.519	0.773	25111	11390	1-1461
48	OPGW 64K64 (7541)	172	0.2227	143.7	0.647	16.4	0.425	0.641	18056	8190	1-1439
48	OPGW 83N105 (7543)	239	0.2878	185.7	0.722	18.3	0.707	1.052	35054	15900	1-1453
48	OPGW 83P80 (7552)	292	0.2878	185.7	0.722	18.3	0.537	0.799	22531	10220	1-1438
72	OPGW 67K78 (7995)	154	0.2229	143.8	0.657	16.7	0.531	0.784	25573	11600	1-1461
72	OPGW 67K63 (7996)	177	0.2229	143.8	0.657	16.7	0.426	0.630	17747	8050	1-1438
72	OPGW 73L88 (7999)	182	0.2446	157.8	0.681	17.3	0.595	0.879	29784	13510	1-1450
72	OPGW 73M70 (7997)	212	0.2446	157.8	0.681	17.3	0.476	0.704	20624	9355	1-1439
96	OPGW 62J72 (8000)	138	0.2080	134.2	0.638	16.2	0.489	0.723	23192	10520	1-1166
96	OPGW 62J57 (8001)	159	0.2080	134.2	0.638	16.2	0.384	0.568	15079	6840	1-1441
96	OPGW 84N104 (7994)	230	0.2818	181.8	0.724	18.4	0.701	1.036	35163	15950	1-1453
96	OPGW 84P81 (7632)	277	0.2818	181.8	0.724	18.4	0.547	0.808	23545	10680	1-1439

Cable Characteristics

- Optical unit composed of 1 to 4 tubes
- Armor Lay direction: left (S) or right (Z)

Temperature Range

-40° F to +176° F (-40° C to +80° C)

Routine Tests

100% of optical fibers are measured by OTDR technique before leaving factory.

Installation Procedure

Prysmian recommends installing the cable described in this specification following the latest version of our "Installation Procedures for OPGW Fiber Optic Cable" reference SIG-07-PE-PA-013.

CladCore™ OPGW

Aluminum Clad Stainless Steel Central Tube Cable



Optical Power Ground Wire for Transmission Applications

Overview

Prysmian's CladCore™ OPGW cables are typically custom-designed to best match the optical, electrical, mechanical, quality and cost requirements of each individual project. This includes optimizing diameter, weight, breaking strength and short circuit capacity. However, some "REFERENCE DESIGNS" are presented here. The core consists of optical fibers contained in a welded stainless steel tube, which is overlaid with Aluminum. Where there is high contamination or close proximity to the ocean, Prysmian recommends a grease coating on the outer armor layer.

Product Snapshot

Applications	Prysmian's CladCore™ OPGW provides a compact design without sacrificing corrosion resistance. It is best suited to applications with moderate to low span and electrical requirements.
Construction Options	Single or double armor layers, right or left-hand stranding lays (on single armor)
Fiber Count	Up to 48 fibers in a stainless steel tube
Fiber Types	Standard Single Mode (G.652.D), Bend-Insensitive Single Mode (G.657), and NZDSF
Performance	Meets or exceeds IEEE-1138-2009, tested in accordance with relevant EIA-455 FOTPs for fiber optic cables
Other Versions	StrandCore™, PureCore™
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHS AS 18001

Features and Benefits

Aluminum-Clad Stainless Steel Core Tube

- High crush resistance in a small form-factor

Superior Corrosion Resistance

- Dissimilar metals are prevented from reacting with one another
- Provides performance similar to stainless steel central tube, without the risk of galvanic corrosion
- Meets IEEE construction guidelines for use in high corrosion sites

Enhanced Electrical Performance

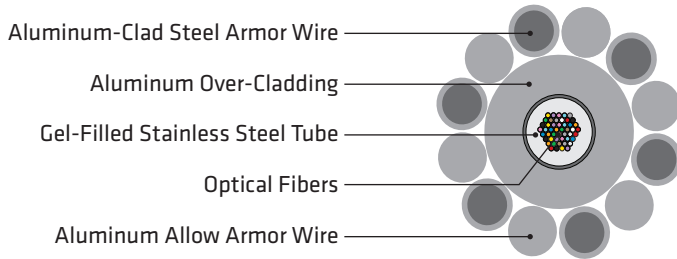
- Use of aluminum alloy wires can be decreased
- Replacement with ACS wires improves lightning resistance

Compact Design

- Reduced weight
- Increased flexibility
- Smaller minimum bend radius
- Easier to handle and install
- Lower wind and ice loads put less load on structures

CladCore™ OPGW

Aluminum Clad Stainless Steel Central Tube Cable



REFERENCE DESIGNS

Fiber Count (max)	OPGW Reference	Fault Current (kA) ² sec	Total Conductor Area		Overall Diameter		Weight		RBS	
			Inches ²	mm ²	Inches	mm	lbs/ft	kg/m	lbs	kg
48	OPGW 18B47 (8190)	43	0.124	80.52	0.465	11.80	0.314	0.467	16626	7541
48	OPGW 18B35 (8319)	54	0.124	80.52	0.465	11.80	0.238	0.354	10755	4878
48	OPGW 20B47 (8392)	53	0.132	85.40	0.472	12.00	0.316	0.470	16089	7298
48	OPGW 20C36 (8393)	63	0.132	85.40	0.472	12.00	0.244	0.364	10523	4773
48	OPGW 26C53 (8364)	63	0.146	94.10	0.496	12.60	0.355	0.529	18454	8371
48	OPGW 26D42 (8390)	75	0.146	94.10	0.496	12.60	0.279	0.416	12584	5708
48	OPGW 28C57 (8261)	58	0.147	94.90	0.504	12.80	0.381	0.568	20749	9408
48	OPGW 28D44 (8391)	74	0.147	94.90	0.504	12.80	0.295	0.441	14144	6416
48	OPGW 34E61 (8394)	75	0.165	106.60	0.528	13.40	0.410	0.611	21831	9903
48	OPGW 34F46 (8395)	94	0.165	106.60	0.528	13.40	0.310	0.461	14092	6392

Cable Characteristics

- Optical unit composed of a stainless steel tube embedded in an aluminium tube.
- Armor Lay direction: left (S) or right (Z)

Temperature Range

-40° F to +185° F (-40° C to +85° C)

Routine Tests

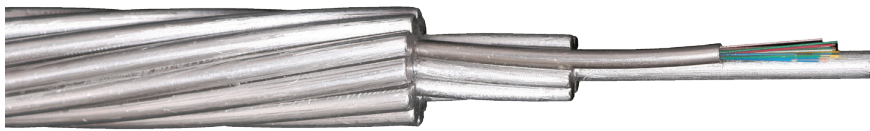
100% of optical fibers are measured by OTDR technique before leaving factory.

Installation Procedure

Prysmian recommends installing the cable described in this specification following the latest version of our "Installation Procedures for OPGW Fiber Optic Cable" reference SIG-07-PE-PA-013.

StrandCore™ OPGW

Stranded Tube Cable



Optical Power Ground Wire for Transmission Applications

Overview

Prysmian's StrandCore™ OPGW cables are typically custom designed to best match the optical, electrical, mechanical, quality and cost requirements of each individual project. This includes optimizing diameter, weight, breaking strength and short circuit capacity. However, some "REFERENCE DESIGNS" are presented here. Fibers are contained in one or more stranded stainless steel tubes, allowing the fibers to be free from strain even at highest designed operating load.

Product Snapshot

Applications	Prysmian's StrandCore™ OPGW allows cable elongation and sag to be increased without inducing fiber strain. It is best suited for applications with modest electrical requirements. Because StrandCore™ OPGW contains exposed elements made of both stainless steel and aluminum, it should not be used in high corrosion areas.
Construction Options	Aluminum-Alloy and aluminum-clad armor wires.
Fiber Count	Up to 96 fibers in buffer tubes
Fiber Types	Standard Single Mode (G.652.D), Bend-Insensitive Single Mode (G.657), and NZDSF
Performance	Meets or exceeds IEEE-1138-2009, tested in accordance with relevant EIA-455 FOTPs for fiber optic cables
Other Versions	CladCore™, PureCore™
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHS AS 18001

Features and Benefits

Stranded Stainless Steel Tube

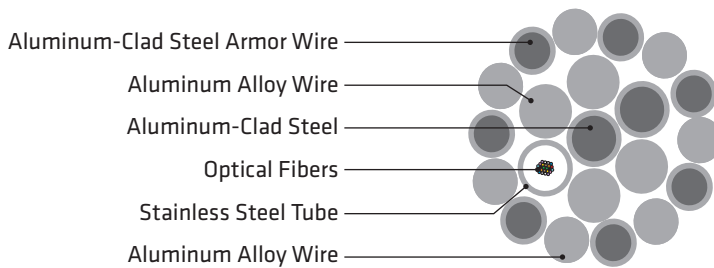
- Wire strands are replaced with fiber-filled stainless steel tubes
- Fiber tubes are helically stranded alongside the wires
- Fiber strain margin is increased relative to core tube designs
- Loaded sag can be increased without inducing fiber strain

Compact Design

- Reduced weight
- Increased flexibility
- Smaller minimum bend radius
- Easier to handle and install
- Lower wind and ice loads put less load on structures

StrandCore™ OPGW

Stranded Tube Cable



REFERENCE DESIGNS

Fiber Count (max)	OPGW Reference	Fault Current (kA) ² sec	Total Conductor Area		Overall Diameter		Weight		RBS		SAG 10 Chart #
			Inches ²	mm ²	Inches	mm	lbs/ft	kg/m	lbs	kg	
24	20A42Ds (7978)	41	0.1233	79.53	0.472	12.0	0.282	0.417	14947	6780	1-1461
36	20A37Ds (7979)	41	0.1180	76.12	0.472	12.0	0.251	0.370	12269	5565	1-350
24	41G47Ds (7975)	96	0.1764	113.81	0.555	14.1	0.320	0.473	15621	7086	1-1438
24	46H47Ds (7976)	116	0.1896	122.32	0.575	14.6	0.321	0.474	14782	6705	1-430
96	60J62Ds (7977)	137	0.2140	138.05	0.630	16.0	0.420	0.620	20091	9113	1-1170
96	64J67Ds (7980)	152	0.2254	145.45	0.646	16.4	0.452	0.668	22191	10066	1-917
96	70K71Ds (7981)	177	0.2412	155.63	0.669	17.0	0.478	0.706	23303	10570	1-917

Cable Characteristics

- Optical unit composed of 1 to 3 stranded stainless steel tubes.
- Armor Lay direction: left (S) or right (Z)

Temperature Range

-40° F to +185° F (-40° C to +85° C)

Routine Tests

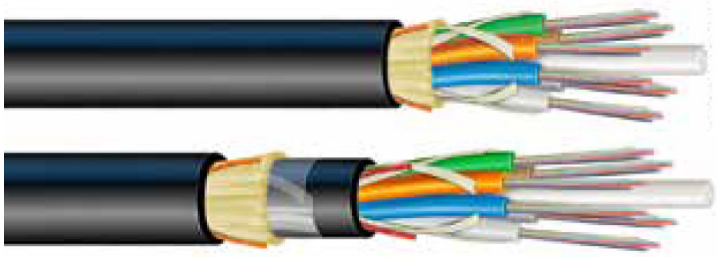
100% of optical fibers are measured by OTDR technique before leaving factory.

Installation Procedure

Prysmian recommends installing the cable described in this specification following the latest version of our "Installation Procedures for OPGW Fiber Optic Cable" reference SIG-07-PE-PA-013.

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable



All-Dielectric Self-Support (ADSS) easy entry fiber cable for up to 1200' (365m) spans typical in distribution

Overview

Prysmian's ezSPAN® ADSS provides reliable self-support performance for up to 1200 feet (365 meters). Each ezSPAN® ADSS cable is custom engineered for each application based on its full weather load, ensuring safe, reliable lifetime performance. Flexible buffer tubes enable ease of mid-entry, preparation and routing in splice closures. These cables uniquely combine flexible buffer tubes and swellable water-blocking to make ezSPAN the easiest ADSS cables to prep and access.

Product Snapshot

Applications	Self-supporting aerial deployment for communications & power transmission.
Constructions	All-dielectric round - typical span lengths up to 1,200' (305m), single and dual jacket.
Fiber Count	12 to 144 fibers in color coded buffer tubes.
Fiber Types	Single-mode / bend-insensitive / NZDSF / multimode / hybrid
Standards	IEEE 1222-2011, ANSI / ICEA 640, IEC, RUS 7 CFR 1755 (RUS LISTED), Telecordia GR- 20
Other Versions	Long Span ADSS
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



Features and Benefits

Easy Cable Entry and Preparation

- 12 fibers per tube construction up to 144 fiber designs allow easy termination and mid-span fiber access
- Flexible buffer tubes and single jacket option enhance mid-entry
- Ripcord speeds cable entry and outer jacket removal
- Swellable binders speed cable preparation

Flexible Routing and Termination

- Flexible buffer tubes simplify routing, storage and prep
- Available with G657.A1 and G657.A2 bend-insensitive single-mode fiber

Versatile Installation and Use

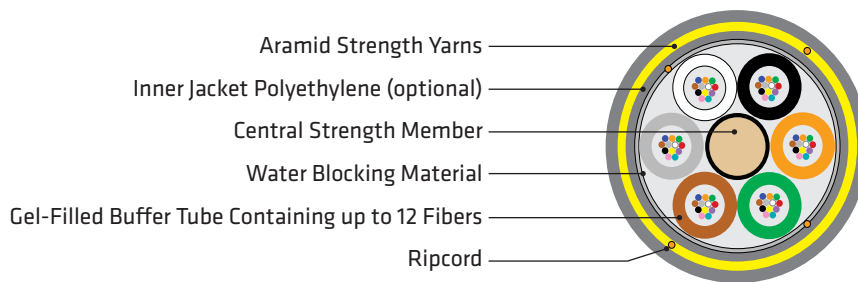
- Tailored designs span distances up to 1200' (305m) without interrupting power
- Easy mid-entry is ideal for FTTx distribution applications
- Matching pole attachment hardware (dead-ends, suspension clamps)

Reliable Lifetime Performance

- Custom engineered for operation under full load
- Guaranteed standards-based performance

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable



PLP ATTACHMENT HARDWARE CONSIDERATIONS

- Dead-ends indicated are Limited & Medium Tension dead-ends. The Limited Tension dead-end is designed for a maximum long-term tension of 1000 lbs and short-term tension of 2500 lbs. The Medium Tension dead-end is designed for 2000 lbs for long-term tensions and 4000 lbs for short-term loads. Semi-high or High Tension dead-ends should be used for higher tension ratings.
- Limited Tension dead ends are limited to a maximum span length of 600 feet.
- C1E1 designates thimble clevis and extension link (recommended).
- Aluminum Suspension is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.
- Spans of > 600 to 1200 feet require reinforcing rods (SSR).
- The “S” designates anchor shackle and eye-nut (recommended).
- Vibration dampers may be required.
- Aluminum support is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.

INSTALLATION SPECIFICATIONS

Minimum Bend Radius

With load: 20x cable diameter

No load: 10x cable diameter

Temperature Range

Shipping and Storage -40° F to +167° F (-40° C to +75° C)

Installation -22° F to +140° F (-30° C to +60° C)

Operation -40° F to +158° F (-40° C to +70° C)

Maximum Stringing Tension: 600 lbs

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NECS Light Loading ezSPAN Single Jacket

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR	AI Suspension Spans <600 ft
6-30 Fibers (6 fibers per tube)								
up to 430	0.393	465	1.5	F-ADSS0465-06-HB-XXX	2872000C1E1	4450198S	-	4450098
12-60 Fibers (12 fibers per tube)								
up to 328	0.398	415	1.5	F-ADSS0415-12-HB-XXX	2872000C1E1	4450198S	-	4450098
12-72 Fibers								
up to 328	0.420	495	1.5	F-ADSS0495-12-HB-XXX	2872001C1E1	4450198S	-	4450098
up to 600	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
700	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
800	0.483	1075	1.5	F-ADES1075-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
900	0.486	1205	1.5	F-ADES1205-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
1000	0.489	1345	1.5	F-ADES1345-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
1100	0.491	1475	1.5	F-ADES1475-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
1200	0.494	1615	1.5	F-ADES1615-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
84-96 Fibers								
up to 600	0.567	1025	1.5	F-ADES1025-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
700	0.568	1115	1.5	F-ADES1115-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
800	0.571	1255	1.5	F-ADES1255-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
900	0.574	1435	1.5	F-ADES1435-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1000	0.577	1615	1.5	F-ADES1615-12-HB-XXX	2872102C1E1	4450202S	4470202S	4450102
1100	0.580	1795	1.5	F-ADES1795-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
1200	0.582	1925	1.5	F-ADES1925-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
108-144 Fibers								
up to 400	0.733	1025	1.5	F-ADES1025-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
500	0.734	1075	1.5	F-ADES1075-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
600	0.737	1295	1.5	F-ADES1295-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
700	0.740	1525	1.5	F-ADES1525-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
800	0.742	1705	1.5	F-ADES1705-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
900	0.745	1925	1.5	F-ADES1925-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
1000	0.748	2155	1.5	F-ADES2125-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NECS Medium Loading ezSPAN Single Jacket

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR	AI Suspension Spans <600 ft
6-30 Fibers (6 fibers per tube)								
280	0.393	465	1.5	F-ADSS0465-06-HB-XXX	287500TE	4450198S	–	4450098
12-72 Fibers								
up to 500	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
600	0.484	1115	1.5	F-ADES1115-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
700	0.488	1295	1.5	F-ADES1295-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
800	0.492	1525	1.5	F-ADES1525-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
900	0.496	1705	1.5	F-ADES1705-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
84-96 Fibers								
up to 500	0.567	1025	1.5	F-ADES1025-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
600	0.571	1255	1.5	F-ADES1255-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
700	0.575	1475	1.5	F-ADES1475-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
800	0.578	1705	1.5	F-ADES1705-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
900	0.582	1885	1.5	F-ADES1885-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
108-144 Fibers								
up to 400	0.733	1025	1.5	F-ADES1025-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
500	0.737	1295	1.5	F-ADES1295-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
600	0.740	1565	1.5	F-ADES1565-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
700	0.744	1835	1.5	F-ADES1835-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
800	0.747	2105	1.5	F-ADES2105-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
900	0.751	2375	1.5	F-ADES2375-12-HB-XXX	2872107C1E1	4450205S	4470205S	4450105

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NESC Heavy Loading ezSPAN Single Jacket

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR	AI Suspension Spans <600 ft
6-30 Fibers (6 fibers per tube)								
165	0.393	465	1.5	F-ADSS0465-06-HB-XXX	287500TE	4450198S	-	4450098
12-72 Fibers								
up to 330	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
350	0.483	1075	1.5	F-ADES1075-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
400	0.487	1255	1.5	F-ADES1255-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
450	0.490	1385	1.5	F-ADES1385-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
500	0.492	1525	1.5	F-ADES1525-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
550	0.496	1705	1.5	F-ADES1705-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
600	0.500	1885	1.5	F-ADES1885-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
700	0.506	2195	1.5	F-ADES2195-12-HB-XXX	2872100C1E1	4450200S	4470201S	4450100
84-96 Fibers								
up to 310	0.567	1025	1.5	F-ADES1025-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
350	0.569	1165	1.5	F-ADES1165-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
400	0.572	1345	1.5	F-ADES1345-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
450	0.575	1525	1.5	F-ADES1525-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
500	0.578	1705	1.5	F-ADES1705-12-HB-XXX	2872007C1E1	4450202S	4470202S	4450102
550	0.582	1885	1.5	F-ADES1885-12-HB-XXX	2872007C1E1	4450202S	4470202S	4450102
600	0.584	2015	1.5	F-ADES2015-12-HB-XXX	2872007C1E1	4450202S	4470202S	4450102
700	0.590	2375	1.5	F-ADES2375-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
108-144 Fibers								
up to 250	0.733	1025	1.5	F-ADES1025-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
300	0.736	1205	1.5	F-ADES1205-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
350	0.738	1385	1.5	F-ADES1385-12-HB-XXX	2872010C1E1	4450204S	4470205S	4450104
400	0.741	1615	1.5	F-ADES1615-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
450	0.743	1795	1.5	F-ADES1795-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
500	0.746	1975	1.5	F-ADES1975-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
550	0.748	2195	1.5	F-ADES2195-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
600	0.751	2375	1.5	F-ADES2375-12-HB-XXX	2872011C1E1	4450205S	4470205S	4450105

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NECS Light Loading ezSPAN Double Jacket

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR	AI Suspension Spans <600 ft
12-72 Fibers								
up to 600	0.533	1031	1.5	F-ADED1031-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
700	0.534	1071	1.5	F-ADED1071-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
800	0.537	1211	1.5	F-ADED1211-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
900	0.540	1391	1.5	F-ADED1391-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
1000	0.542	1521	1.5	F-ADED1521-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
1100	0.546	1701	1.5	F-ADED1701-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
1200	0.549	1881	1.5	F-ADED1881-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
1300	0.552	2021	1.5	F-ADED2021-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1400	0.555	2201	1.5	F-ADED2201-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1500	0.558	2381	1.5	F-ADED2381-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1600	0.561	2561	1.5	F-ADED2561-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
84-96 Fibers								
up to 575	0.618	1031	1.5	F-ADED1031-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
600	0.619	1071	1.5	F-ADED1071-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
700	0.622	1251	1.5	F-ADED1251-12-HB-XXX	2872104C1E1	4450202S	4470202S	4450102
800	0.625	1431	1.5	F-ADED1431-12-HB-XXX	2872104C1E1	4450202S	4470202S	4450102
900	0.628	1661	1.5	F-ADED1661-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1000	0.631	1841	1.5	F-ADED1841-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1100	0.634	2021	1.5	F-ADED2021-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1200	0.636	2201	1.5	F-ADED2201-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1300	0.640	2421	1.5	F-ADED2421-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1400	0.643	2621	1.5	F-ADED2621-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
108-144 Fibers								
up to 425	0.785	1031	1.5	F-ADED1031-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
500	0.787	1211	1.5	F-ADED1211-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
600	0.791	1481	1.5	F-ADED1481-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
700	0.793	1701	1.5	F-ADED1701-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
800	0.796	1971	1.5	F-ADED1971-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
900	0.799	2201	1.5	F-ADED2201-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
1000	0.802	2471	1.5	F-ADED2471-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
1100	0.806	2751	1.5	F-ADED2751-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NEC Medium Loading ezSPAN Double Jacket

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR	AI Suspension Spans <600 ft
12-72 Fibers								
up to 500	0.533	1031	1.5	F-ADED1031-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
600	0.537	1211	1.5	F-ADED1211-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
700	0.541	1431	1.5	F-ADED1431-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
800	0.545	1661	1.5	F-ADED1661-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
900	0.549	1881	1.5	F-ADED1881-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
1000	0.553	2111	1.5	F-ADED2111-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1100	0.556	2291	1.5	F-ADED2291-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
84-96 Fibers								
up to 450	0.618	1031	1.5	F-ADED1031-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
500	0.620	1161	1.5	F-ADED1161-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
600	0.624	1391	1.5	F-ADED1391-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
700	0.627	1611	1.5	F-ADED1611-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
800	0.631	1841	1.5	F-ADED1841-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
900	0.635	2111	1.5	F-ADED2111-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1000	0.638	2331	1.5	F-ADED2331-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1100	0.643	2621	1.5	F-ADED2621-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
108-144 Fibers								
up to 350	0.785	1031	1.5	F-ADED1031-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
400	0.787	1161	1.5	F-ADED1161-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
500	0.790	1431	1.5	F-ADED1431-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
600	0.794	1751	1.5	F-ADED1751-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
700	0.797	2021	1.5	F-ADED2021-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
800	0.801	2331	1.5	F-ADED2331-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
900	0.804	2621	1.5	F-ADED2621-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105

ezSPAN® ADSS

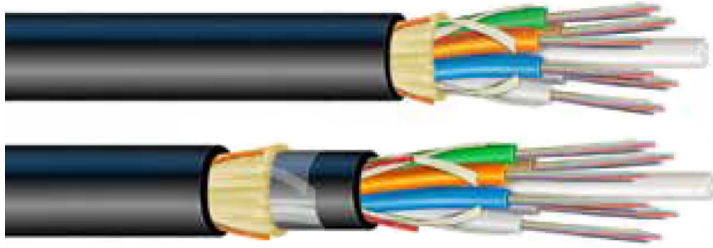
All-Dielectric Self-Supporting Loose Tube Cable

NECS Heavy Loading ezSPAN Double Jacket

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR	AI Suspension Spans <600 ft
12-72 Fibers								
up to 300	0.533	1031	1.5	F-ADED1031-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
350	0.536	1161	1.5	F-ADED1161-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
400	0.539	1341	1.5	F-ADED1341-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
450	0.542	1481	1.5	F-ADED1481-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
500	0.545	1661	1.5	F-ADED1661-12-HB-XXX	2872006C1E1	4450201S	4470201S	4450101
550	0.548	1841	1.5	F-ADED1841-12-HB-XXX	2872006C1E1	4450201S	4470201S	4450101
600	0.552	2021	1.5	F-ADED2021-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
650	0.555	2201	1.5	F-ADED2201-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
700	0.558	2381	1.5	F-ADED2381-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
750	0.560	2511	1.5	F-ADED2511-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
84-96 Fibers								
up to 290	0.618	1031	1.5	F-ADED1031-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
300	0.619	1171	1.5	F-ADED1171-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
350	0.622	1251	1.5	F-ADED1251-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
400	0.625	1431	1.5	F-ADED1431-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
450	0.627	1611	1.5	F-ADED1611-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
500	0.631	1841	1.5	F-ADED1841-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
550	0.634	2021	1.5	F-ADED2021-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
600	0.636	2201	1.5	F-ADED2201-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
650	0.639	2381	1.5	F-ADED2381-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
700	0.642	2561	1.5	F-ADED2561-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
108-144 Fibers								
up to 240	0.785	1031	1.5	F-ADED1031-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
250	0.786	1071	1.5	F-ADED1071-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
300	0.788	1301	1.5	F-ADED1301-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
350	0.791	1521	1.5	F-ADED1521-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
400	0.794	1751	1.5	F-ADED1751-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
450	0.796	1931	1.5	F-ADED1931-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
500	0.798	2157	1.5	F-ADED2157-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
550	0.801	2381	1.5	F-ADED2381-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
600	0.804	2621	1.5	F-ADED2621-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105

Long Span ADSS

All-Dielectric Self-Supporting Loose Tube Cable



All-Dielectric Self-Support (ADSS) fiber cable for up to 2600' (800m) spans common in transmission

Overview

Prysmian's Long Span ADSS version provides reliable self-support performance for up to 2,600 feet (800 meters). Each Long Span ADSS cable is custom engineered for optimum placement on utility towers and to operate under full weather load, ensuring safe reliable lifetime performance. For installation on high-voltage lines up to 275 kV, an optional track-resistant jacket prevents dry-band arcing damage. Available up to 288 fibers, cables greater than 72 fibers utilize a 24 fiber per tube design to reduce environmental load (12 fibers per tube design is also available for fiber counts of 84-144).

Product Snapshot

Applications	Self-supporting aerial deployment for communications & power transmission space
Constructions	All-dielectric round - typical span lengths up to 2,600' (800m), single and dual jacket, and track resistant
Fiber Count	12 to 288 fibers in color-coded buffer tubes
Fiber Types	Single-mode /bend-insensitive/ NZDSF / multimode / hybrid
Options	Track resistant jacket, SafeStrain or ZeroStrain designs
Standards	IEEE 1222-2011, ANSI / ICEA 640, RUS 7 CFR 1755 (RUS LISTED), Telecordia GR-20, IEC 60794-4-20
Other Versions	ezSPAN ADSS
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



Features and Benefits

Proven Long Span Installation & Use

- Tailored designs span distances up to 2,600' (800m) without interrupting power
- Higher count designs utilize 24 fiber per tube to reduce diameter and environmental loading

Easy Cable Entry & Preparation

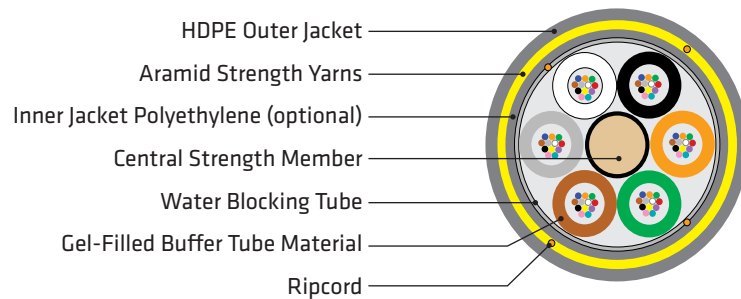
- Ripcord speeds cable entry & outer jacket removal
- Swellable binders speed cable preparation
- Available bend-insensitive single-mode fiber
- 2.6 mm tube with 12 fibers per tube; 3.0 mm tube with 24 fibers per tube (with two 12 fiber binder groups)

Reliable Lifetime Performance

- Custom engineered for operation under full load
- Available with zero fiber strain at the maximum rated cable load (MRCL) or with a SafeStrain design limiting fiber strain to 0.20%
- Guaranteed standards-based performance

Long Span ADSS

All-Dielectric Self-Supporting Loose Tube Cable



PLP ATTACHMENT HARDWARE CONSIDERATIONS

- Dead-ends indicated are Limited & Medium Tension dead-ends. The Limited Tension dead-end is designed for a maximum long-term tension of 1000 lbs and short-term tension of 2500 lbs. The Medium Tension dead-end is designed for 2000 lbs for long-term tensions and 4000 lbs for short-term loads. Semi-high or High Tension dead-ends should be used for higher tension ratings.
- Limited Tension dead ends are limited to a maximum span length of 600 feet.
- C1E1 designates thimble clevis and extension link (recommended).
- Aluminum Suspension is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.
- Spans of > 600 to 1200 feet require reinforcing rods (SSR).
- The “S” designates anchor shackle and eye-nut (recommended).
- Vibration dampers may be required.
- Aluminum support is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.

INSTALLATION SPECIFICATIONS

Minimum Bend Radius

With load: 20x cable diameter

No load: 10x cable diameter

Temperature Range

Shipping and Storage -40° F to +167° F (-40° C to +75° C)

Installation -22° F to +140° F (-30° C to +60° C)

Operation -40° F to +158° F (-40° C to +70° C)

Long Span ADSS

All-Dielectric Self-Supporting Loose Tube Cable

Single HDPE Jacket (without track resistance) SafeStrain Design | ADLS
 NESC Light Load

6-72 fibers: ezSPAN ADSS design is recommended

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable O.D. (in)	Installation Load (lbf)	Installation Sag	Dead End	AI Support <600 ft Span	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR
84 to 144 Fibers									
up to 600	ADLS1025-24-HB-XXX	1025	0.492	491	1.5	2872004C1E1	4450100	4450200S	4470200S
700	ADLS1025-24-HB-XXX	1025	0.492	491	1.5	2872100C1E1	4450100	4450200S	4470200S
800	ADLS1115-24-HB-XXX	1115	0.494	565	1.5	2872100C1E1	4450100	4450200S	4470200S
900	ADLS1295-24-HB-XXX	1295	0.498	644	1.5	2872100C1E1	4450100	4450200S	4470200S
156 to 216 Fibers									
up to 500	ADLS1025-24-HB-XXX	1025	0.616	500	1.5	2872008C1E1	4450102	4450202S	4470202S
600	ADLS1115-24-HB-XXX	1115	0.618	603	1.5	2872008C1E1	4450102	4450202S	4470202S
700	ADLS1295-24-HB-XXX	1295	0.621	709	1.5	2872104C1E1	4450102	4450202S	4470202S
800	ADLS1475-24-HB-XXX	1475	0.624	818	1.5	2872104C1E1	4450102	4450202S	4470202S
900	ADLS1655-24-HB-XXX	1655	0.626	928	1.5	2872104C1E1	4450103	4450203S	4470203S
1000	ADLS1835-24-HB-XXX	1835	0.629	1040	1.5	2872104C1E1	4450103	4450203S	4470203S
228 to 288 Fibers									
up to 450	ADLS1025-24-HB-XXX	1025	0.743	608	1.5	2872011C1E1	4450104	4450204S	4470205S
500	ADLS1155-24-HB-XXX	1155	0.745	678	1.5	2872011C1E1	4450104	4450204S	4470205S
600	ADLS1385-24-HB-XXX	1385	0.748	820	1.5	2872011C1E1	4450105	4450204S	4470205S
700	ADLS1605-24-HB-XXX	1605	0.751	965	1.5	2872107C1E1	4450105	4450205S	4470205S
800	ADLS1835-24-HB-XXX	1835	0.754	1111	1.5	2872107C1E1	4450105	4450205S	4470205S
900	ADLS2105-24-HB-XXX	2105	0.757	1262	1.5	2872107C1E1	4450105	4450205S	4470205S
1000	ADLS2325-24-HB-XXX	2325	0.760	1413	1.5	2872107C1E1	4450105	4450205S	4470205S

For longer span applications, contact Prysmian for specific cable designs

Long Span ADSS

All-Dielectric Self-Supporting Loose Tube Cable

Single HDPE Jacket (without track resistance) SafeStrain Design | ADLS
 NESL Medium Load

6-72 fibers: ezSPAN ADSS design is recommended

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable O.D. (in)	Installation Load (lbf)	Installation Sag	Dead End	AI Support <600 ft Span	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR
84 to 144 Fibers									
up to 500	ADLS1025-24-HB-XXX	1025	0.492	351	1.5	2872004C1E1	4450100	4450200S	4470200S
600	ADLS1155-24-HB-XXX	1155	0.495	425	1.5	2872004C1E1	4450100	4450200S	4470200S
700	ADLS1385-24-HB-XXX	1385	0.500	505	1.5	2872100C1E1	4450100	4450200S	4470200S
800	ADLS1565-24-HB-XXX	1565	0.503	584	1.5	2872100C1E1	4450100	4450200S	4470201S
900	ADLS1785-24-HB-XXX	1785	0.508	668	1.5	2872100C1E1	4450100	4450200S	4470201S
1000	ADLS2015-24-HB-XXX	2015	0.513	754	1.5	2872101C1E1	4450100	4450200S	4470201S
156 to 216 Fibers									
up to 400	ADLS1025-24-HB-XXX	1025	0.616	400	1.5	2872008C1E1	4450102	4450202S	4470202S
500	ADLS1155-24-HB-XXX	1155	0.619	503	1.5	2872008C1E1	4450102	4450202S	4470202S
600	ADLS1385-24-HB-XXX	1385	0.622	611	1.5	2872008C1E1	4450102	4450202S	4470202S
700	ADLS1655-24-HB-XXX	1655	0.626	722	1.5	2872104C1E1	4450103	4450203S	4470203S
800	ADLS1875-24-HB-XXX	1875	0.630	834	1.5	2872104C1E1	4450103	4450203S	4470203S
900	ADLS2105-24-HB-XXX	2105	0.634	948	1.5	2872104C1E1	4450103	4450203S	4470203S
1000	ADLS2375-24-HB-XXX	2375	0.638	1067	1.5	2872104C1E1	4450103	4450203S	4470203S
228 to 288 Fibers									
up to 375	ADLS1025-24-HB-XXX	1025	0.743	506	1.5	2872011C1E1	4450104	4450204S	4470205S
400	ADLS1115-24-HB-XXX	1115	0.745	542	1.5	2872011C1E1	4450104	4450204S	4470205S
500	ADLS1385-24-HB-XXX	1385	0.748	684	1.5	2872011C1E1	4450105	4450204S	4470205S
600	ADLS1655-24-HB-XXX	1655	0.752	828	1.5	2872011C1E1	4450105	4450205S	4470205S
700	ADLS1925-24-HB-XXX	1925	0.755	975	1.5	2872107C1E1	4450105	4450205S	4470205S
800	ADLS2235-24-HB-XXX	2235	0.759	1127	1.5	2872107C1E1	4450105	4450205S	4470205S
900	ADLS2505-24-HB-XXX	2505	0.762	1279	1.5	2872107C1E1	4450105	4450205S	4470205S

For longer span applications, contact Prysmian for specific cable designs

Long Span ADSS

All-Dielectric Self-Supporting Loose Tube Cable

Single HDPE Jacket (without track resistance) SafeStrain Design | ADLS
 NESC Heavy Load

6-72 fibers: ezSPAN ADSS design is recommended

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable O.D. (in)	Installation Load (lbf)	Installation Sag	Dead End	AI Support <600 ft Span	AI Suspension w/o SSR (<600 ft)	AI Suspension with SSR
84 to 144 Fibers									
up to 300	ADLS1025-12-HB-XXX	1025	0.492	210	1.5	2872004C1E1	4450100	4450200S	4470200S
400	ADLS1295-24-HB-XXX	1295	0.498	286	1.5	2872004C1E1	4450100	4450200S	4470200S
500	ADLS1605-24-HB-XXX	1605	0.504	266	1.5	2872004C1E1	4450100	4450200S	4470201S
600	ADLS1925-24-HB-XXX	1925	0.511	450	1.5	2872005C1E1	4450100	4450200S	4470201S
700	ADLS2285-24-HB-XXX	2285	0.518	538	1.5	2872100C1E1	4450100	4450200S	4470201S
800	ADLS2615-24-HB-XXX	2615	0.525	630	1.5	2872101C1E1	4450100	4450200S	4470201S
156 to 216 Fibers									
up to 200	ADLS1025-24-HB-XXX	1025	0.616	200	1.5	2872008C1E1	4450102	4450202S	4470202S
300	ADLS1115-24-HB-XXX	1115	0.618	301	1.5	2872008C1E1	4450102	4450202S	4470202S
400	ADLS1475-24-HB-XXX	1475	0.624	409	1.5	2872008C1E1	4450102	4450202S	4470202S
500	ADLS1835-24-HB-XXX	1835	0.629	520	1.5	2872008C1E1	4450103	4450203S	4470203S
600	ADLS2195-24-HB-XXX	2195	0.635	635	1.5	2872008C1E1	4450103	4450203S	4470203S
700	ADLS2555-24-HB-XXX	2555	0.641	753	1.5	2872104C1E1	4450103	4450203S	4470203S
228 to 288 Fibers									
up to 250	ADLS1025-24-HB-XXX	1025	0.743	338	1.5	2872011C1E1	4450104	4450204S	4470205S
300	ADLS1245-24-HB-XXX	1245	0.746	408	1.5	2872011C1E1	4450104	4450204S	4470205S
400	ADLS1655-24-HB-XXX	1655	0.752	552	1.5	2872011C1E1	4450105	4450205S	4470205S
500	ADLS2105-24-HB-XXX	2105	0.757	701	1.5	2872011C1E1	4450105	4450205S	4470205S
600	ADLS2505-24-HB-XXX	2505	0.762	853	1.5	2872011C1E1	4450105	4450205S	4470205S

For longer span applications, contact Prysmian for specific cable designs

Long Span ADSS

All-Dielectric Self-Supporting Loose Tube Cable

Dual HDPE Jacket (without track resistance) SafeStrain Design | ADLD

Fiber Count	Span ft (m)	NESC Heavy, 1% Sag		NESC Medium, 1% Sag		NESC Light, 1% Sag	
		Diameter inches (mm)	Weight lb/kft (kg/km)	Diameter inches (mm)	Weight lb/kft (kg/km)	Diameter inches (mm)	Weight lb/kft (kg/km)
2 - 72	200 (61)	0.53 (13.4)	97 (144)	0.52 (13.3)	95 (142)	0.52 (13.3)	95 (142)
	400 (122)	0.55 (13.9)	103 (153)	0.53 (13.5)	98 (146)	0.53 (13.4)	97 (144)
	600 (183)	0.57 (14.4)	109 (162)	0.55 (13.9)	103 (153)	0.54 (13.6)	99 (148)
	800 (244)	0.60 (15.3)	122 (182)	0.56 (14.2)	106 (158)	0.55 (13.9)	103 (153)
	1000 (305)	0.64 (16.2)	135 (201)	0.57 (14.5)	111 (165)	0.56 (14.1)	106 (157)
	1200 (366)	0.67 (17.0)	147 (218)	0.60 (15.3)	122 (182)	0.57 (14.4)	110 (163)
	1600 (488)	-	-	0.65 (16.5)	140 (208)	0.62 (15.7)	127 (189)
	2000 (610)	-	-	0.69 (17.6)	157 (234)	0.65 (16.6)	141 (210)
84 - 144	200 (61)	0.57 (14.6)	114 (169)	0.57 (14.6)	114 (169)	0.57 (14.6)	114 (169)
	400 (122)	0.59 (15.1)	120 (179)	0.58 (14.8)	116 (172)	0.58 (14.6)	114 (170)
	600 (183)	0.61 (15.5)	127 (188)	0.59 (15.1)	120 (179)	0.59 (14.9)	117 (175)
	800 (244)	0.65 (16.5)	141 (210)	0.60 (15.4)	124 (184)	0.60 (15.1)	121 (180)
	1000 (305)	0.68 (17.3)	154 (229)	0.62 (15.8)	130 (193)	0.60 (15.4)	124 (184)
	1200 (366)	0.71 (17.9)	164 (244)	0.65 (16.5)	141 (210)	0.62 (15.7)	129 (192)
	1600 (488)	0.77 (19.6)	192 (286)	0.70 (17.8)	161 (240)	0.67 (16.9)	147 (219)
	2000 (610)	-	-	0.74 (18.8)	179 (267)	0.71 (17.9)	164 (244)
156 - 216	200 (61)	0.70 (17.8)	157 (234)	0.70 (17.8)	156 (233)	0.70 (17.8)	156 (233)
	400 (122)	0.72 (18.3)	165 (245)	0.71 (18.0)	160 (238)	0.70 (17.9)	159 (236)
	600 (183)	0.75 (19.0)	178 (265)	0.72 (18.3)	166 (247)	0.72 (18.2)	163 (243)
	800 (244)	0.77 (19.6)	189 (281)	0.73 (18.6)	171 (254)	0.73 (18.4)	168 (250)
	1000 (305)	0.80 (20.4)	202 (301)	0.76 (19.3)	182 (272)	0.74 (18.7)	172 (255)
	1200 (366)	0.83 (21.0)	215 (319)	0.78 (19.9)	193 (288)	0.76 (19.4)	184 (274)
	1600 (488)	-	-	0.83 (21.0)	215 (319)	0.80 (20.4)	202 (301)
	2000 (610)	-	-	0.87 (22.0)	235 (349)	0.84 (21.3)	220 (327)
240 - 288	200 (61)	0.83 (21.1)	207 (308)	0.83 (21.0)	205 (305)	0.83 (21.0)	205 (305)
	400 (122)	0.85 (21.5)	216 (321)	0.84 (21.3)	211 (313)	0.83 (21.2)	209 (311)
	600 (183)	0.87 (22.2)	229 (340)	0.85 (21.6)	218 (324)	0.84 (21.5)	215 (319)
	800 (244)	0.90 (22.9)	244 (363)	0.87 (22.2)	229 (340)	0.86 (21.7)	220 (327)
	1000 (305)	0.93 (23.5)	257 (382)	0.89 (22.6)	238 (354)	0.88 (22.3)	232 (345)
	1200 (366)	0.95 (24.2)	272 (404)	0.91 (23.2)	249 (371)	0.90 (22.8)	242 (360)
	1600 (488)	-	-	0.96 (24.3)	274 (408)	0.94 (23.8)	264 (393)
	2000 (610)	-	-	-	-	0.97 (24.7)	284 (422)

For zero strain and rack resistant Jacket options, Contact your Prysmian representative or for information about designs with alternative span requirements or cable diameters. Cable diameters and weights may vary depending on specific span design requirements.

ADSS / OPGW Worksheet

Customer Name: _____ Project Name: _____

Installation Location (City & State): _____

Fiber Type(s): (if the cable will include more than one fiber type, please indicate the fiber sequence)

Number of Fibers _____ Single Mode (ITU G652.D) _____ ITU G655 NZDSF _____

Attenuation (dB/km): _____@ 1310 nm, _____@ 1383 nm, _____@ 1550 nm

ADSS Information:

Maximum Span Length (ft): _____ Installation Sag: _____% (i.e. 1.5%)

Maximum Weather Loading Conditions: NESC Light _____ Medium _____ or Heavy _____; or Defined by NESC map _____

Or User Defined: Radial Ice _____, Wind Speed (mph) _____, Other _____

Maximum Fiber Strain: SafeStrain (0.2% - Default) _____ ZeroStrain _____ Other (please specify) _____

Number of Jackets: Single Jacket _____ Dual Jacket _____

Line Voltage: None _____ Distribution _____ Transmission (if yes, specify the Line Voltage) _____

Standard print in: ft _____ meters _____ or other _____

Special Requirements (OD, MRCL, etc): _____

OPGW Cable Design Information:

Cable Construction: Aluminum Tube _____ Aluminum-Clad SS tube _____ Stranded SS Tube _____ Central SS Tube _____

The minimum information needed for design/quotation is in the Required Information section.
Additional information may be provided at the customer's discretion.

	OPGW 1	OPGW 2	OPGW 3
End User Cable Reference (optional)			
Required Information			
Total Length (feet)			
Fiber Count by Type			
Rated Tensile Strength - RTS (lbs)*			
Onset of Fiber Strain†			
Short Circuit Capacity (kA2s)			
Optional Specifications			
Maximum Span Length*			
Installed Sag*			
Loading Conditions (wind in mph)* (radial ice in inches)			
Max Loaded Sag			
Cable Diameter (inch)			
Cable Weight (lb/ft)			
Single or Double Layer Armor			
Outer Layer Lay Direction (default=LH)			
Minimum Armor Wire OD			
Initial/Final Short Circuit Temp (F)			
Short Circuit Duration (s)			

* Max Span Length, Installed Sag and Loading Conditions can be provided in lieu of RTS

† Fiber Strain limits are critical to fiber reliability and cable cost. Please contact Prysmian Group if you would like assistance with the specification of this parameter.

NOTES

Prysmian Group

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Prysmian Group

2512 Penny Road | Claremont, NC 28610 | +1-800-669-0808 | +1-800-879-9862 | website: na.prysmiangroup.com/telecom

