

FIBERLIGN[®] SOLUTIONS FOR FTTH OVERHEAD NETWORKS

Durable overhead lines within reach



PREFORMED LINE PRODUCTS



Established in 22 countries, the PLP Preformed Line Products Group designs and manufactures accessories for the installation and safety of telecommunication and energy networks (Energy Distribution and Transmission), and has become one of the world's leading players in this field.

PLP is also present in the railway and solar energy infrastructure sectors and other specialised industries. The Group's customers benefit from its constant added value and incomparable support. Thanks to the expertise of its 15 R&D centers (including 3 in Europe and 1 in Africa), PLP is able to offer Operators tailor-made solutions for all new project types. PLP manufacturing plants have their own testing capabilities so that solutions can be defined and tested according to customers' cables and specifications.

Our service for deploying FTTH in France

PLP is the inventor of preformed technology (1947), which has been used for more than 70 years worldwide by all Operators on their communication and energy networks.

This technology is often referred to as "spiral" technology in France as opposed to "helical" or "preformed" in other countries. A pioneer in its field, PLP has become the world leader for optical dielectric overhead cable accessories, with more than 17 million accessories installed on all continents. PLP has also designed solutions to protect dielectric cables against wind phenomena.

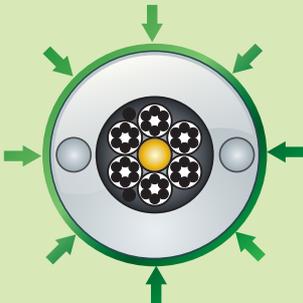
PLP is continuing to innovate and has developed an optimized range for the latest generations of round fiber optic cables used in France to deploy FTTH over short spans (< 80 m).

Our technicians are on hand to guide you and help you choose the best accessories according to the cables, specifications, and characteristic features of each installation. We also offer a standard range for use over long spans, sometimes exceeding 400 m.

Preformed technology: Specially invented for fiber optics

COMPARISON OF DIFFERENT ANCHORING TECHNOLOGIES

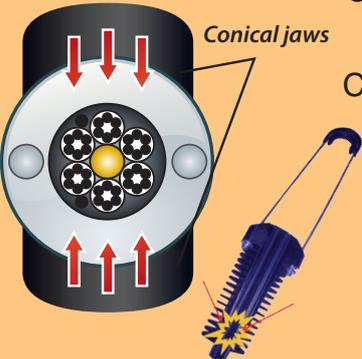
+ **PREFORMED: SPECIALLY INVENTED FOR FIBER OPTICS**



HELICICAL WIRES

- PRESSURE CONTROLLED**
360 ° around the fiber and over a longer length
- PRESSURE RELEASED** after climatic events
- SAFE AND STABLE INSTALLATION**
- NO CABLE ORIENTATION** required

- **CONICAL TIGHTENING: INVENTED FOR METAL CABLES**



CONICAL JAWS

- Compression concentrated on two sides and over a shorter length
- Constant pressure, increasing with every climate event
- Risk of localised cable pinching
- Risk of incorrect installation



SUMMARY

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PRODUCT SELECTION GUIDE PER NETWORK / SUPPORT TYPE

Dead-ends and suspensions

Products	Reference	Network	Orange	ENEDIS LV	Others (public lighting...)	ENEDIS MV	ENEDIS MV
		Span	Up to 70 m*			70 m to 150 m*	Up to 400 m**
Preformed dead-ends	A000x	6 and 8	✓	✓	✓		
Helical tangent suspension	S100xE and S100x	7 and 9	✓	✓	✓		
Preformed dead-ends without reinforcing rods	SFDEA-xx	10				✓	
Preformed dead-ends with reinforcing rods	LT dead-ends	11				✓	
	MT dead-ends	12				✓	✓
Helical suspensions with reinforcing rods	AWFSO-xx	13				✓	
OFDPC suspension clamps	OFDPC-xx	13				✓	
FASN suspension clamps	4450xxxG	14				✓	
AGS suspension clamps	GSAFO-xx	14					✓

* Depending on cable specification

** In excess of 400 m, please consult us



PRODUCT SELECTION GUIDE PER NETWORK TYPE / SUPPORT

Pole hardware

Products	Network		Orange		Other (public lighting, etc)			ENEDIS MV		ENEDIS MV		
	Reference	Page	Wooden pole	Metal/composite pole	Facade	Wooden pole	Concrete pole	Metal pole	Wooden pole	Concrete pole	Wooden pole	Concrete pole
Drop dead-end bracket	CSL16U	15	✓	✓		✓		✓				
Compact suspension bracket	CSP	15	✓	✓		✓		✓				
L-shaped bracket and wide L-shaped bracket	LBW LBEW	15	✓	✓		✓	✓	✓	✓	✓		
Suspension bracket	CS1500	15	✓			✓	✓		✓	✓	✓	✓
Anchoring bracket	CA1500	15	✓			✓	✓		✓	✓	✓	✓
Universal pole hardware	UPH	15	✓	✓		✓	✓	✓	✓	✓	✓	✓
Suspension bracket with pigtail bolt	CSLS-BQC	15	✓			✓	✓		✓		✓	
Suspension hook bracket	CCR012	15									✓	✓
Anchoring bracket	CANC12	15									✓	✓
Cross-arm bracket	SMT18	15	✓	✓		✓		✓	✓			
5-hole cross-arm	TV507	16	✓	✓	✓	✓		✓	✓		✓	
11-hole cross-arm	TV514	16	✓	✓	✓	✓		✓	✓		✓	
13-hole cross-arm	TV515	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15-hole cross-arm	TV519	16					✓			✓		✓
Drop anchoring plate	FERE	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Square base bracket	SMLQ539	16				✓	✓			✓		✓
Wooden pole bracket	SMLPB	16	✓			✓			✓		✓	
Wooden pole bracket	SML516	16	✓			✓						
Bracket with variable spacing	BEBxxx	17					✓			✓		
Bracket	BRD212	17	✓	✓		✓		✓				
Cable storage brackets	APCS3/5	17	✓	✓		✓		✓				
Adjustable cable storage bracket	DLOVV	17	✓	✓		✓		✓				
Pole extension	PTE	18	✓	✓		✓	✓	✓				
Bracket for pole extension	BPTE	18	✓	✓		✓	✓	✓				
Pigtail screw for wooden support	CVBQCxxx	19				✓						
Piton with plug for concrete pole	CVEO	19					✓					
Pole bracket with rod	SEMAG12	20	✓	✓				✓	✓			

Preformed Line Products offers its new range of preformed dead-ends and suspension devices for overhead ADSS Fiber Optic cables for short spans, specific to the French market. Tested according to French and European standards, they are made using preformed technology, the most suitable and appreciated solution in the world for ADSS Fiber Optic cables.

01/1 - Accessories for FTTH drop cables

The new preformed anchoring devices guarantee network durability and the stability of installation parameters. They allow for lower installation and service costs and minimize your storage expenses.

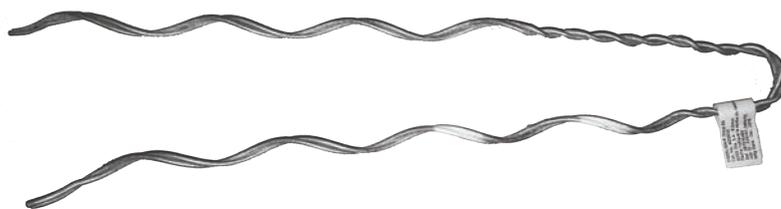
CHARACTERISTICS

- "All-in-One" easy, intuitive, fast and secure fastening (single installer)
- Fitted directly on cross-arms, brackets, drop anchoring plates, and other pole hardware used for the French network (UPH...)
- Tool-less assembly / disassembly
- Stable installation parameters (no slip)
- Designed for network lifespan durability
- Tested according to IEC 60794-1 (NF EN 60794-1-2)

DROP CABLE DEAD-END ADS00X RANGE

MAX SPAN*: Approx 70M

FTTH drop cable dead-end



Assembly instructions and video



Reference	Description	Material	Thimble	Ø mm	Weight (kg)	Packaging	Color Code
ADS001	Dead-end	Galvanised steel	Included/Not	4.3 - 5.0	0.04	120	Blue
ADS002	Dead-end	Galvanised steel	included	5.4 - 6.2	0.04	120	White

NB: Anchoring designed to withstand a traction force of 60 to 80 daN depending on the cable used.

DROP CABLE DEAD-END A000X RANGE

MAX SPAN*: Approx 70M

FTTH drop cable dead-end



product benefits:

- Quick and secure installation
- Robust
- Genuine "All-in-One" solution
- Aesthetic



Reference	Description	Material	Ø mm	Weight (kg)	Packaging	Color Code
A0001P			4.2 - 4.5			Blue
A0001SF	Dead-end	Aluminium	4.5 - 5.0	0.03	120	Black
* A0002			4.8 - 6.2			Green

NB: Anchoring designed to withstand a traction force of up to 125 daN depending on the cable used.

Assembly instructions and video



*Non-contractual indicative value

Thanks to their high slippage resistance, these helical suspension fittings can replace a double anchoring dead-end for in-line installations (line angle up to 20°). They are very compact.

CHARACTERISTICS

- "All-in-One" easy, intuitive, fast and secure fastening (single installer)
- Tool-less assembly / disassembly
- Direct installation on cross-arms, brackets, drop anchor plates, and other pole hardware used for the French network (UPH, ...)
- Suitable for line angles up to 20°
- Excellent slippage resistance thanks to preformed technology
- Designed for network lifespan durability
- Tested according to IEC 60794-1 (NF EN 60794-1-2)
- Stable installation parameters (no slip)
- Can replace double anchoring dead-end

DROP CABLE SUSPENSION S100X RANGE

MAX SPAN*: Approx 70M



S-link for connection on cluttered pole bracket



Reference	Description	Material	Thimble	Ø mm ou Lxl	Weight (kg)	Packaging	Color Code
S1000	FO Drop cable suspension		Included	4.3 - 4.8		200	
S1001	FO Drop cable suspension	Galvanised steel	Included	4.8 - 6.2	0.05	150	
10056	S-Link			62 x 30		250	



NB: Optional S-link for connection on cluttered pole bracket (adjacent holes on cross-arm).

DROP CABLE SUSPENSION S100XE RANGE

NEW

MAX SPAN*: Approx 70M



product benefits:

- Robust
- Quick and very secure assembly

Reference	Description	Material	Thimble	Ø mm ou Lxl	Weight (kg)	Packaging	Color Code
S1000E	Drop cable suspension	Galvanised steel	Included	4.3 - 4.8	0.04	200	
S1001E	Drop cable suspension	Galvanised steel	Included	4.8 - 6.2	0.04	150	



*Non-contractual indicative value

01/2 - Accessories for FTTH distribution networks

Preformed Line Products offers a new range of helical dead-ends and suspension devices for overhead FO cables on short spans, specific to the French market. Tested according to French and European standards, they are made using preformed technology, the most suitable and appreciated solution worldwide for ADSS Fiber Optic cables. They can be installed on each hole of the cross-arms.

CHARACTERISTICS

- “All-in-One” easy, intuitive, fast and secure fastening (single installer)
- Tool-less assembly / disassembly
- Fitted directly on cross-arms, brackets, drop anchoring plates and other pole hardware used for the French networks (UPH , ...)
- Designed for network lifespan durability
- Tested according to IEC 60794-1 (NF EN 60794-1-2)
- Stable installation parameters (no slip)

PREFORMED DEAD-ENDS A000X RANGE

MAX SPAN*: Approx 70M

Distribution dead-end



product benefits:

- Quick and secure installation
- Robust
- Genuine “All-in-One” solution
- Aesthetic

Reference	Description	Material	Thimble (included)	Ø mm	Weight (kg)	Packaging	Colour Code
* A0002			Plastic	4.8 - 6.2	0.03	120	
A0003				6.2 - 7.8	0.10	80	
A0004	Dead-end	Aluminium		7.8 - 9.5	0.13	80	
A0005		alloy	Metal	9.5 - 10.7	0.14	60	
A0006				10.7 - 12.8	0.15	50	
A0007				12.8 - 15.0	0.18	40	

Assembly instructions and video



NB: Please, consult us before using these accessories on reinforced cables intended for long spans.

* Non-contractual indicative value

Thanks to their high slippage resistance, these helical suspension fittings can replace a double anchoring dead-end for in-line installations (line angle up to 20°). They are very compact.

CHARACTERISTICS

- "All-in-One" easy, intuitive, quick, secure fastening (single installer)
- Tool-less assembly / disassembly
- Direct installation on cross-arms, brackets, drop anchoring plates and other pole hardware of the French network (UPH,...)
- Suitable for line angles up to 20°
- Excellent slippage resistance thanks to helical technology
- Designed for network lifespan durability
- Tested according to IEC 60794-1 (NF EN 60794-1-2)
- Stable installation parameters (no slip)
- Can replace a double anchoring dead-end

HELICAL TANGENT SUSPENSION S100X RANGE

MAX SPAN*: Approx 70M

Distribution cable tangent suspension



Qualified Orange

S-link for connection on cluttered pole bracket

Qualified Orange



Reference	Description	Material	Thimble	Ø mm	Weight (kg)	Packaging	Colour Code
S1001				4.8 - 6.2	0.04	150	
S1002				6.2 - 7.8	0.04	150	
S1003	Tangent suspension	Galvanised steel	Included	7.8 - 9.5	0.05	120	
S1004				9.5 - 10.7	0.05	100	
S1005				10.7 - 12.8	0.07	80	
S1006				12.8 - 15.0	0.07	80	
10056	S-link			62 x 30	0.05	250	

Assembly instructions



NB: Please, consult us before using these accessories on reinforced cables intended for long spans. Optional S-link necessary for assembly on cluttered pole bracket (adjacent holes on cross-arm).

HELICAL TANGENT SUSPENSION S100XE RANGE

NEW

MAX SPAN*: Approx 70M

Distribution cable tangent suspension



Qualified Orange

product benefits:

- Robust
- Quick and very secure assembly

Reference	Description	Material	Thimble	Ø mm	Weight (kg)	Packaging	Colour Code
S1001E				4.8 - 6.2	0.04	150	
S1002E				6.2 - 7.8	0.04	150	
S1003E	Tangent suspension	Galvanised steel	Included	7.8 - 9.5	0.05	120	
S1004E				9.5 - 10.7	0.05	100	
S1005E				10.7 - 12.8	0.07	80	
S1006E				12.8 - 15.0	0.07	80	

Assembly instructions and video



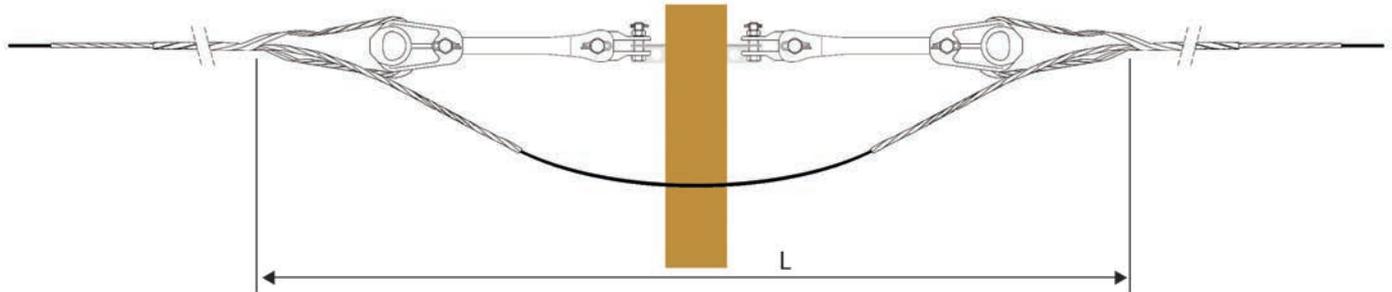
NB: Please consult us before using these accessories on reinforced cables intended for long spans.

* Non-contractual indicative value

02/1 - Preformed dead-ends

Invented by PLP, helical dead-ends enabled the first deployments of overhead FO cables in the world. They incorporate proven technology for protecting ADSS cables.

Recommended assembly for dead-ends mounted over a medium or long span:



NB: Over medium and long spans, in order to respect the bend radius in the cable loop in the event of double anchoring, it is important to check that the distance between the cable outputs of the two dead-ends (at the level of the colour marking on the device) is sufficient (general rule: Length = 20 x cable diameter). Please consult the data sheet for the cable used). It may be necessary to add extensions.

PREFORMED DEAD-ENDS - SFDEA

NEW

MAX SPAN*: Approx 120M

CHARACTERISTICS

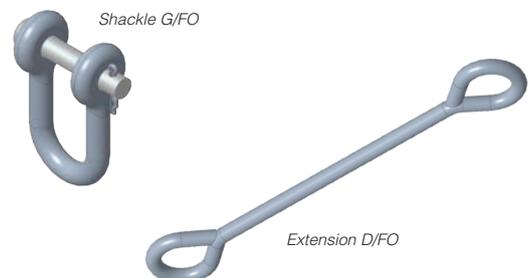
- Single layer reinforced dead-ends for reinforced cables
- Compatible with maximum tension levels from 400 to 700daN (depending on the cable)
- Supplied with lug
- For intermediate spans from 60 to 120 m approx

SFDEA helical dead-end



Reference	Ø mm	Thimble	Weight (kg)	Colour Code
SFDEA 5718111R	10.84 - 11.40		0.8	
SFDEA 5719117R	11.41 - 11.99		0.8	
SFDEA 5719123R	12.00 - 12.62		0.8	
SFDEA 5720130R	12.63 - 13.27		0.8	
SFDEA 5721136R	13.28 - 13.96		0.8	
SFDEA 5721143R	13.97 - 14.69	Included	0.9	
SFDEA 5723151R	14.70 - 15.46		0.9	
SFDEA 5724159R	15.47 - 16.30		1.0	
SFDEA 5725167R	16.31 - 17.05		1.0	
SFDEA 5725175R	17.05 - 17.96		1.0	
SFDEA 5728192R	18.70 - 19.68		1.0	
SFDEA 5726202R	19.70 - 20.71		1.0	

SFDEA helical dead-ends must be fitted with the following chain components:



NB: A traction test must be performed on the cable to confirm the MAT value (Maximum Admissible Tension). Please contact us for product measurements.

Reference	Description	Material	Weight (kg)
G/FO	Shackle	Galvanised steel	0.2
D/FO	Extension	Galvanised steel	0.5

* Non-contractual indicative value

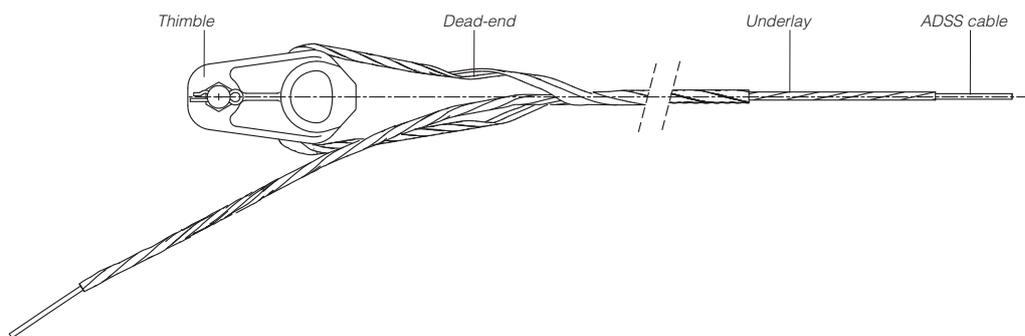
LT PREFORMED DEAD-ENDS (LIMITED TENSION)

NEW

MAX SPAN*: Approx 150M

CHARACTERISTICS

- Dual layer reinforced dead-ends for reinforced cables
- Compatible with maximum tension levels from 440 to 1100daN (depending on the cable)
- For intermediate spans from 100 to 150 m approx



Reference	Cable Ø mm	Length m	Thimble	Weight	Packaging	Colour Code	
2872001	10 - 11	1.2		1.4	10	Black	
2872002	11 - 11	1.2		1.4	10	Yellow	
2872003	12 - 12	1.2		1.5	10	Green	
2872004	12 - 13	1.2		1.9	8	Orange	
2872005	13 - 14	1.2		2.0	8	Blue	
2872006	14 - 15	1.2		2.1	8	White	
2872007	15 - 16	1.2		2.2	6	Red	
2872008	16 - 17	1.2		2.2	6	Black	
2872009	17 - 18	1.2		2.2	6	Yellow	
2872010	18 - 19	1.2		Not included	2.4	6	Green
2872011	19 - 20	1.2		2.5	5	Orange	
2872012	20 - 21	1.2		2.6	5	Blue	
2872013	21 - 23	1.2		2.6	5	White	
2872014	23 - 24	1.2		2.8	5	Red	
2872015	24 - 26	1.2		3.0	5	Black	
2872016	26 - 27	1.5		3.5	4	Yellow	
2872017	27 - 29	1.5		3.9	4	Green	
2872018	29 - 31	1.5		4.2	4	Orange	
2872019	31 - 33	1.5		4.4	4	Blue	

NB: A traction test must be performed on the cable to confirm the MAT value (Maximum Admissible Tension). Please contact us for product measurements.

LT helical dead-ends must be fitted with the following chain components:



Reference	Designation	Material	Weight (kg)
TCB-27-B	Thimble	Galvanised steel	0.9
EB-15-B	Extension		0.9
D/FO	Extension		0.5
U-0770	Shackle	Galvanised steel	0.5
G/FO	Shackle		0.2

* Non-contractual indicative value

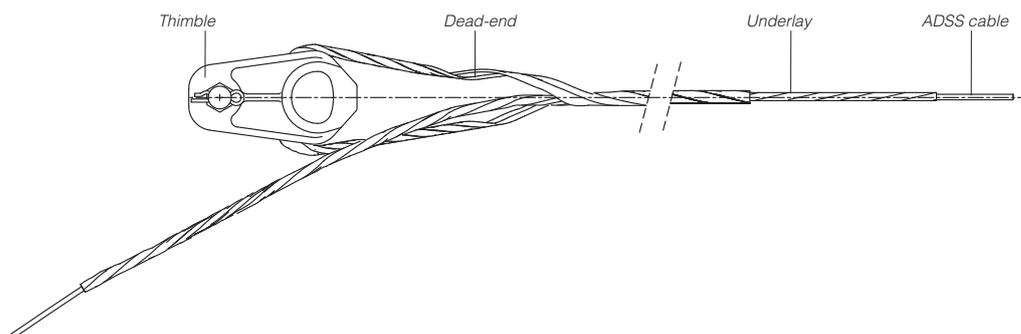
MT PREFORMED DEAD-ENDS (MEDIUM TENSION)

NEW

MAX SPAN*: Approx 200M

CHARACTERISTICS

- Dual layer reinforced dead-ends for reinforced cables
- Compatible with maximum tension levels from 890 to 1780 daN (depending on the cable)
- Designed for use in extraordinary / extreme climate conditions



Reference	Cable Ø mm	Length m	Thimble	Weight	Packaging	Colour Code	
2872100	12 - 13	2.2		3.2	8		
2872101	13 - 14	2.2		3.4	8		
2872102	14 - 15	2.2		3.8	8		
2872103	15 - 16	2.2		4.9	6		
2872104	16 - 17	2.2		5.0	6		
2872105	17 - 18	2.2		5.2	6		
2872106	18 - 19	2.2		5.2	6		
2872107	19 - 20	2.2		5.5	4		
2872108	20 - 21	2.3		Not included	6.3	4	
2872109	21 - 23	2.3		6.6	4		
2872110	23 - 24	2.4		7.2	4		
2872111	24 - 26	2.4		8.0	3		
2872112	26 - 27	2.5		8.5	3		
2872113	27 - 29	2.5		9.5	3		
2872114	29 - 31	2.6	10.5	3			
2872115	31 - 33	2.7	11.2	3			

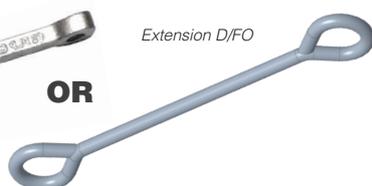
NB: A traction test must be performed on the cable to confirm the MAT value (Maximum Admissible Traction). Please contact us for product measurements.

MT helical dead-ends must be fitted with the following chain components:

Extension EB-15-B



Extension D/FO



OR

Thimble TCB-27-B



Shackle U-0770



OR

Shackle G/FO



Reference	Designation	Material	Weight (kg)
TCB-27-B	Thimble	Galvanised steel	0.9
EB-15-B	Extension		0.9
D/FO	Extension	Galvanised steel	0.5
U-0770	Shackle		0.5
G/FO	Shackle		0.2

* Non-contractual indicative value

02/2 - Suspensions

Invented by PLP, helical suspensions are a very reliable and economical solution for alignment when installing ADSS cables.

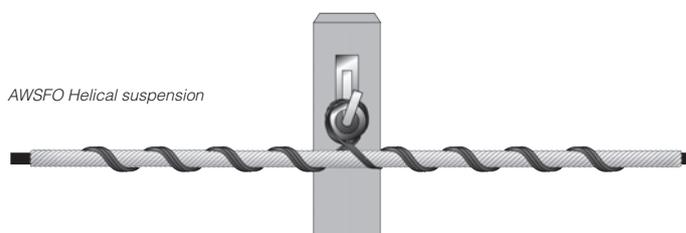
HELICAL SUSPENSIONS - AWSFO

MAX SPAN*: Approx 150M

CHARACTERISTICS

- With a protective aluminium alloy, this solution prevents deterioration of the optic fiber inside the ADSS cable
- Excellent slippage resistance
- Designed for use in extraordinary / extreme climate conditions
- Can be used on all materials for spans ≤ 150 m

Reference	Ø mm	Thimble	Weight (kg)	Colour Code
AWSFO-01	12.51 - 13.26		0.75	Black
AWSFO-02	13.27 - 14.50		0.75	Yellow
AWSFO-03	14.51 - 15.50		0.77	Cyan
AWSFO-04	15.51 - 16.80		0.85	Light Green
AWSFO-05	16.81 - 17.80	Included	0.94	Orange
AWSFO-06	17.81 - 18.50		0.96	Red
AWSFO-07	18.51 - 20.00		0.98	Dark Red
AWSFO-08	20.01 - 21.45		1.07	Light Blue
AWSFO-09	21.46 - 22.90		1.11	Light Green



SUSPENSION CLAMPS - OFDPC

NEW

MAX SPAN*: Approx 200M

CHARACTERISTICS

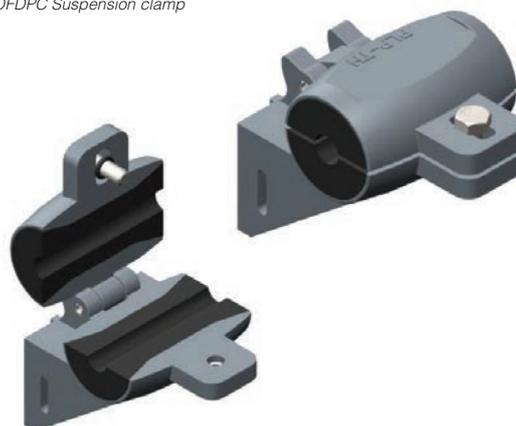
- Maximum line angle 15°
- Fixed on the pole with 20 mm steel band or M12, M14 bolt
- Material: aluminium alloy and rubber insert

Reference	Ø mm	Weight (kg)	Packaging
OFDPC-070083	7.00 - 8.30	0.55	30
OFDPC-084095	8.40 - 9.50	0.55	30
OFDPC-096108	9.60 - 10.80	0.55	30
OFDPC-109121	11.00 - 11.90	0.55	30
OFDPC-120125-3	12.00 - 12.90	0.55	30
OFDPC-130135-1	13.00 - 13.90	0.55	30
OFDPC-140145-3	14.00 - 14.90	0.55	30
OFDPC-150155-3	15.00 - 15.90	0.55	30
OFDPC-160165-1	16.00 - 16.90	0.55	30
OFDPC-170177-1	17.00 - 17.90	0.55	30
OFDPC-180185	18.00 - 18.90	0.55	30
OFDPC-190195	19.00 - 19.90	0.55	30
OFDPC-200210	20.00 - 21.00	0.55	30
OFDPC-211221	21.10 - 22.90	0.55	30
OFDPC-222231	22.20 - 23.20	0.55	30
OFDPC-230241	23.20 - 24.10	0.55	30
OFDPC-242254	24.20 - 25.40	0.55	30
OFDPC-255267	25.50 - 26.70	0,55	30

product benefits:

- Integrated bracket

OFDPC Suspension clamp



* Non-contractual indicative value

SUSPENSIONS - FASN

NEW

MAX SPAN*: Approx 150M

CHARACTERISTICS

- Maximum vertical load 3100daN
- Maximum line angle 30°
- Material: aluminium alloy and rubber insert

Reference	Ø mm	Weight (kg)	Packaging
4450197G	8.27 - 9.53	0.75	15
4450198G	9.54 - 10.80	0.75	15
4450199G	10.81 - 12.07	0.75	15
4450200G	12.08 - 13.34	0.75	15
4450201G	13.35 - 14.61	0.75	15
4450202G	14.62 - 15.88	0.75	15

Helical suspension FASN



02/3 - Anti-vibration suspension clamps

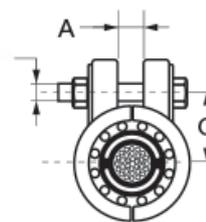
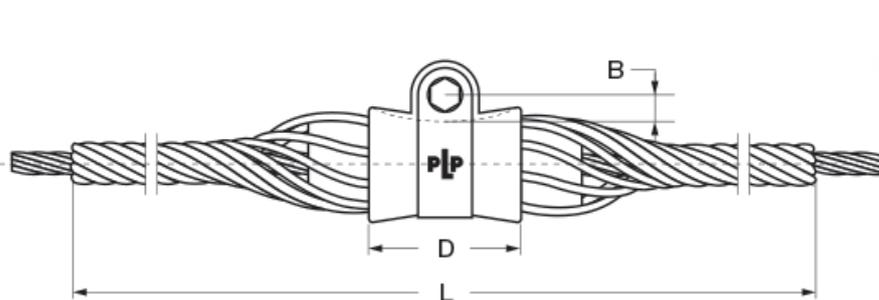
PLP invented this solution in the 1950s. It remains widely used all over the world. The ADSS cable is subjected to high dynamic and static forces at the suspension point. Wind vibrations, friction, ice load, bending angles can all damage the optic fiber in your cable. The AGS (ARMOR-GRIP Suspension) clamp allows reliable suspension while ensuring the durability of your network.

SUSPENSION CLAMPS - AGS

MAX SPAN*: Approx 400M

CHARACTERISTICS

- Preformed rods and aluminium alloy body
- Neoprene shell (elastomer reinforced with aluminium sheet)
- Compatible with ADSS cables on distribution networks for spans ≤ 400 m and above (please consult us)



Reference	Ø mm	Lengths (mm)					Breaking load (daN)(kg)	Weight (kg)	Colour Code
		L	A	B	D	G			
GSAFO-01	8.71 - 9.03	1800	23	36	64	55	5000	0.93	
GSAFO-02	9.04 - 9.52	1800	22	36	64	55		0.93	
GSAFO-03	9.53 - 9.90	1800	22	36	64	55		0.94	
GSAFO-04	9.91 - 10.28	1800	22	36	64	55		0.98	
GSAFO-05	10.29 - 10.63	1800	22	36	64	55		0.99	
GSAFO-06	10.64 - 11.04	1800	22	36	64	55		0.99	
GSAFO-07	11.05 - 11.45	1800	22	36	64	55		1.05	
GSAFO-08	11.46 - 11.95	1800	22	36	64	55		1.05	
GSAFO-09	11.96 - 12.23	1800	22	36	64	55		1.05	
GSAFO-10	12.24 - 12.69	1800	22	31	76	55		1.54	
GSAFO-11	12.70 - 13.02	1800	22	31	76	55		1.54	
GSAFO-12	13.03 - 13,48	1800	22	31	76	55		1.62	



* Non-contractual indicative value

BRACKETS

CHARACTERISTICS

CSL16U

- Drop dead-end bracket
- Fastened with 20 mm steel band or 1 M14 bolt
- Connection of 1 or 2 drop dead-ends



CA1500

- Anchoring bracket
- High-strength aluminium alloy
- Fastened on the pole with 2 x 20 mm steel
- Bands or 2 x M14 bolts

CSP **NEW**

- Compact suspension bracket
- Fastened with 20 mm steel band or 1 x M14 bolt
- Adapted for helical suspensions with open lug
- Can be added to the L-shaped bracket to render it compatible with suspensions



Qualified Orange

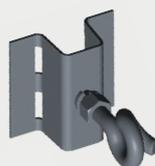


UNIVERSAL POLE HARDWARE - UPH

- High-strength aluminium alloy
- For installation on wooden, steel, concrete or composite poles with 1 x M14 or M16 bolt or 2 x 20mm steel bands
- Several uses:
 - Anchoring bracket for fastening 3 dead-ends
 - Anchoring bracket for guying application
 - Bracket for installing TV514 and TV515 cross-arms

L-SHAPED BRACKET LBW

- Anchoring bracket
- 6 anchoring possibilities: 8 dead-ends or 4 dead-ends + 1 double anchoring
- For installation on all pole types (wooden, metal, concrete and composite) with 20 mm steel band or 1 x M14 bolt



CSLS-BQC

- Fastened on wooden or concrete pole with 2 x 20 mm steel bands
- With BQC1250 equipped with nut and lock nut
- Allows for installation of suspension devices

WIDE L-SHAPED BRACKET LBEW

- Extended capacity anchoring bracket (and suspension bracket by addition of CSP bracket)
- 8 anchoring possibilities: 8 dead-ends or 4 dead-ends + 2 double anchorings
- For installation on all pole types (wooden, metal, concrete and composite) with 20 mm steel band or 1 x M14 bolt



CCR012

- Suspension hook bracket
- Horizontal 7.5kN
- Vertical 12kN

CS1500

- Suspension bracket
- High-strength aluminium alloy
- Allows for direct fastening of suspensions
- Fastened on pole with 2 x 20 mm steel bands or 1 steel band and 1 x M14 bolt



Qualified Orange



CANC12

- Anchoring bracket
- Fastened with 2 x steel bands
- Strength 20kN

SMT18 **NEW**

- 18-hole cross-arm bracket
- Fastened with 2 x 20 mm steel bands or 1 x 14 mm bolt or 1 x 13 mm lag screw

Reference	Description	Material	Weight (kg)	Packaging
CSL16U	Drop dead-end bracket	Galvanised steel	0.03	50
CSP	Compact suspension bracket	Galvanised steel	0.05	
LBW	L-shaped bracket	Galvanised steel	0.21	
LBEW	Wide L-shaped bracket	Galvanised steel	0.25	
CS1500	Suspension bracket	Aluminium	0.18	
CA1500	Anchoring bracket	Aluminium	0.19	
UPH	Universal pole hardware	Aluminium	0.23	
CSLS-BQC	Suspension bracket with BQC1250	Galvanised steel	0.17	50
CCR012	Suspension hook bracket	Galvanised steel	0.95	15
CANC12	Anchoring bracket	Galvanised steel	1.00	
SMT18	Cross-arm bracket	Galvanised steel	0.90	

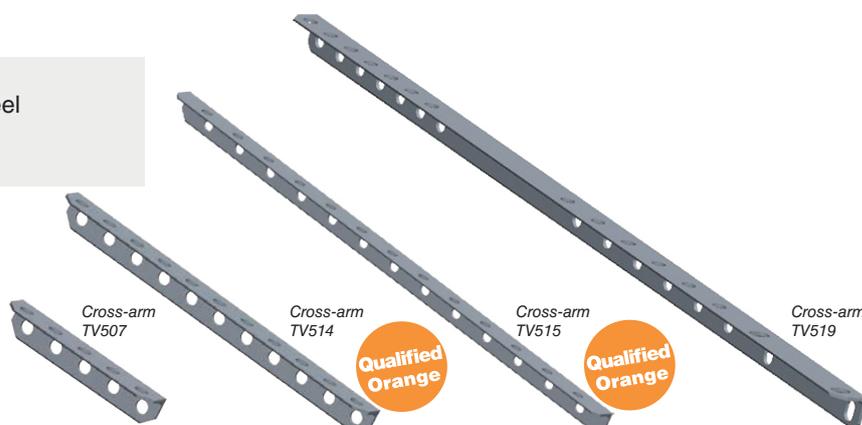
03/1 - Pole hardware (wood /steel / concrete / composite)

CROSS-ARMS

CHARACTERISTICS

- Angle bar 40 x 40 mm – hot-dip galvanised steel
- For wooden, steel or concrete poles
- Fastened with BH1425 assembly bolts

Reference	Description	Weight (kg)	Packaging
TV507	5-hole cross-arm	0.43	10
TV514	11-hole cross-arm	0.93	10
TV515	13-hole cross-arm	1.80	5
TV519	15-hole cross-arm	2.41	5



DROP ANCHORING PLATES

CHARACTERISTICS

- Fastened on cross-arm extremity with BH1425 bolt
- Hot-dip galvanised steel
- Allows departure of 5 drop cables

Reference	Description	Weight (kg)	Packaging
FERE	5-hole drop anchoring plate	0,26	60
FERE4	4-hole drop anchoring plate	0,24	60



POLE BRACKETS

CHARACTERISTICS**SMLQ539**

- Square base bracket for concrete pole – Hot-dip galvanised steel
- 2 brackets needed to fit a 13- or 15-hole cross-arm with 2 x BH1425 assembly bolts
- Fastened with 2 x 20 mm steel bands

SMLPB

- Bracket for wooden pole – Hot-dip galvanised steel
- Cross-arm fastened with 2 x BH1425 assembly bolts
- Fastened with 2 x 20 mm steel bands

SML516

- Bracket for wooden pole – Hot-dip galvanised steel
- Cross-arm fastened with 1 x BH14225 pole head bolt on the upperhole and a lug screw (VQ1280) on the lower hole (for anti-rotation)

Reference	Description	Weight (kg)	Packaging
SMLQ539	Concrete pole square base bracket	0.35	40
SMLPB	Wooden pole bracket	0.59	25
SML516	Wooden pole bracket	0.41	30

Square base bracket
SMLQ539Qualified
OrangeWooden pole bracket
SMLPBQualified
OrangeWooden pole
bracket SML516Qualified
Orange

DISTRIBUTION BOX BRACKETS

NEW

CHARACTERISTICS

BRIDE BEBxxx

- Bracket with variable spacing for mounting copper or optic fiber distribution boxes
- Fastened on ordinary pole with 20 mm steel band
- Can be mounted on all sides of a concrete pole and at the desired height
- Obligatory on low voltage pole (ENEDIS)

BRIDE BRD212

- Bracket for mounting copper or optic fiber distribution boxes
- Fastened on wooden, metal or composite poles
- Spacing for 80 mm and 120 mm distribution boxes
- Fastened with 20 mm steel band 20,14 mm bolt or lug screw



Reference	Description	Material	Dimensions (mm)	Nb of oblong holes	Weight (kg)	Packaging
BEB180			180	4	0.45	30
BEB300	Bracket with variable spacing	Galvanised steel	300	8	0.53	25
BEB420			420	12	0.61	10
BRD212	Bracket		150 x 50 x 40	4	0.22	50

CABLE STORAGE BRACKETS

CHARACTERISTICS

APCS

- Fiberlign® APCS cable storage brackets can be used to optimise storage of ADSS FO cables deployed on overhead networks and limit the piston effect
- Complies with Orange™ specifications

DLOVV

NEW

- Allows excess lengths of FTTH optic fiber cables to be stored neatly on the pole
- Fitted with 2 x 20 mm steel bands or 2 x 10 mm lug screws
- Composed of 6 independently adjustable arms* so that the curve radius of each cable can be respected



product benefits:

- Can be adjusted for all configurations according to ARCEP rules
- Compatible with bracket BRD212

Reference	Description	Material	Dimensions (mm)	Weight (kg)	Packaging
APCS3	Cable storage bracket	Galvanised steel	500 x 300 x 100	1.62	1
APCS5	Cable storage bracket		800 x 500 x 100	2.18	
APCS3-SH	Bracket for 4-port distribution box		250 x 280 x 15	0.53	
DLOVV	Adjustable cable storage bracket		Adjustable*	3.20	

* Adjustable over a range of 500-800 (V) // 300-500 (H).

EXTENSIONS

CHARACTERISTICS

The pole extension is fitted at the top of the pole. It allows for high mounting of cables above existing cables without having to re-arrange the existing network. It can be mounted on all wood, metal and composite telecom poles.

The extension can be fastened as follows:

- on wooden poles, with BH14225 and VQ12100 or possibly 20 mm steel band
- on metal poles, with 20 mm steel band or BH14225 if the metal pole is pre-perforated
- on posts, with curved plate and BH1460

ADVANTAGES

- Enables the departure of 5 drop cables without the need for an additional cross-arm. Performs the function of drop anchoring plate
- Adjustable height thanks to 12 fastening holes so that positioning can be adapted to suit pole cluttering.
- BPTe bracket (optional) for easier installation of the extension: mounted on the pole with steel band and fitted on the extension with a BH1460 bolt in the lateral holes.

PTE extension

Qualified Orange

Telecom pole extension

Drop anchoring plate

12 holes for height adjustment on the pole

Bracket for BPTe extension, without BH1460

Lateral

Front assembly

APPLICATIONS



On wooden pole



On metal pole



On post



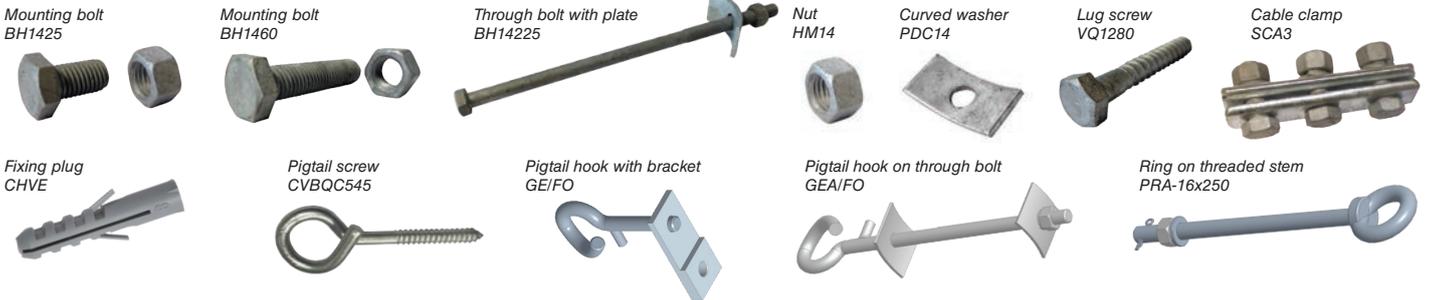
Pole extension + cross-arm with double dead-end anchoring and suspension.

product benefits:

- Symmetrical product
- Cross-arm stabilised on the pole
- Integrated drop anchoring plate

Reference	Description	Material	Dimensions (mm)	Weight (kg)	Packaging
PTE	Pole extension	Galvanised steel	540 x 115 x 30	1.20	10
BPTe	Bracket for pole extension	Galvanised steel	60 x 35 x 58	0.29	50

NUTS AND BOLTS



Reference	Description	Material	Dimensions (mm)	Weight (kg)	Packaging
BH1425	Mounting bolt	Galvanised steel	14 x 60/40	0.07	180
BH1460	Mounting bolt		Filetage 145 mm	0.10	100
BH14225	Pole head bolt with plate		22 x 11	0.36	30
BH14350	Coupling bolt		14 x 350	0.65	20
BH14450	Coupling bolt		14 x 450	0.78	20
HM14	Nut M14		73 x 35	0.02	200
PDC14	Curved washer for bolt		10 x 80	0.02	150
TB1080	Coach screw to hammer		12 x 80	0.07	100
VQ1280	Coach screw		12 x 80	0.07	200
VQ12100	Coach screw		12 x 100	0.90	100
SCA3	Cable clamp - 3 screws	Galvanised steel	120 x 35	0.55	20
CHVE85	Fixing plug on concrete facade for CVBQC screws	Plastic	8 x 40	<0.01	100
CHVE128	Fixing plug on concrete facade for CVBQC screws	Plastic	12 x 60	<0.01	50
CVBQC545	Pigtail screw for wooden support	Galvanised steel	5 x 45	0.02	400
CVBQC850	Pigtail screw for wooden support	Galvanised steel	8 x 50	0.05	200
CVEO840	P8x100 mm piton for concrete pole with plug	Stainless steel	8 x 40	0.09	50
GE/FO	Pigtail hook with bracket	Galvanised steel	135 x 128	1.50	
GAE/FO	Pigtail hook on threaded stem		340	0.85	
PRA-16x250	Ring on threaded stem		16 x 250	0.50	
PRA-16x290	Ring on threaded stem		16 x 290	0.55	

BANDS AND BUCKLES

Reference (AISI 430)	L x l (mm)	Weight (kg)	Roll (m)	Packaging
F2007P	20 x 0,7	5.80	50	5
F2004P	20 x 0,4	3.45		
F1007P	10 x 0,7	2.95		
F1004P	10 x 0,4	1.85		

FxxxxP: plastic reel.

Band tools	Description	Packaging
CRCV959	Screw banding tool*	1
CRCL960	Ratchet banding tool*	
CISF961	Stainless steel band cutter*	
MALT963	Case	

* Max band measurements: 22 x 0.9 mm.

Reference*	Description	Dimensions (mm)	Weight (kg)	Packaging
BCL10MM	Buckle	10	0.35	100
BCL20MM	Buckle	20	0.75	
BCL10MMR	Reinforced buckle	10	0.32	
BCL20MMR	Reinforced buckle	20	0.90	

* For the references of steel bands and buckles AISI 304 or AISI 316, add the suffix -304 or -316 to the end of the reference (eg.: FC2007C-304).



Screw banding tool CRCV959



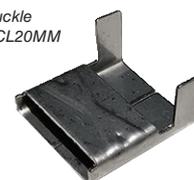
Ratchet banding tool CRCL960



Steel band cutter CISF961



Buckle BCL20MM



Case MALT963



Please contact us to enquire about all our other References.

03/2 - Guying accessories

CHARACTERISTICS**UNIVERSAL POLE**

- Anchoring bracket for fixing a TL12-OO turnbuckle with a MD10 shackle
- High-strength aluminium alloy
- Installed on wooden, steel or concrete pole with 1 x M14 or M16 through bolt (BH14225) or 2 x 20 mm steel bands

TURNBUCKLE – EYE-EYE – TL12-OO

- Allows cable tension adjustment
- Hot-dip galvanised steel

POLE BRACKET WITH ROD – SEMAG12

- Assembly with 2 x 20 mm steel bands

STRAIGHT SHACKLE

- Fitted between turnbuckle eye-eye (TL12-OO) and universal pole hardware (UPH)
- Fitting of the guy grip dead-end (GDE) with the turnbuckle eye-eye (TL12-OO)

GUY GRIP DEAD-END - GDE

- World's most used system for guying applications
- Fast and reliable toolless installation
- No risk of installation error due to incorrect clamping
- Ensures greater resistance than breaking strength of the cable and very stable parameters over time
- Thimble included

1 Universal pole hardware UPH

Qualified Orange



2 Pole bracket with rod SEMAG12



3 Steel straight shackle MD10



4 Cable clamp SCA3



5 Turnbuckle M12 TL12-OO

Qualified Orange



6 Guy grip dead-end GDE



7 Thimble 69019

Qualified Orange



8 Anchor rod TAC31/5



9 Anchor plate PAC

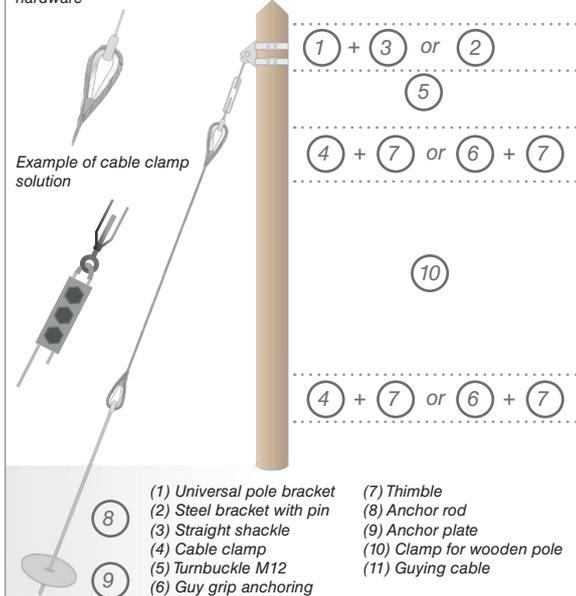
Qualified Orange

product benefits:

- Guying without tools or tightening

Reference	Description	Weight (kg)	Packaging
UPH	Universal pole hardware	0.23	50
SEMAG12	Pole bracket with rod	0.54	30
MD10	10 mm steel straight shackle	0.21	30
TL12-OO	Turnbuckle M12	0.48	80
GDE	Guy grip dead-end	0.28	60
HAB	Single strand guying cable 7 x 2.1 mm	0.21/m	100 m
TAC31/5	Anchor rod + nut + platelet	2.33	25
PAC330	Ø330 mm anchor plate	1.80	5
SCA3	Cable clamp, 3 screws	0.55	20
69019	Thimble	0.04	200

Assembly of guying hardware



In the vibratory field too, PLP has pioneered and invented systems to protect cables against wind phenomena, which can be critical especially on medium and long spans (typically spans > 100 meters). Our technicians are on hand to advise you on their use.

04/1 - Spiral Vibration Damper - SVD

Invented by PLP to dampen the high-frequency vibrations occurring on overhead ADSS cables, SVDs testify to our expertise and the quality of our engineering.

CHARACTERISTICS

- Spiral shape to distribute the load, avoiding cable compression
- Lightness and protection against corrosion guaranteed by a structure 100 % PVC

Reference	Ø range (mm)	Length (m)	Weight (kg)
SVD-01	6.35 - 8.30	1.24	0.22
SVD-02	8.31 - 11.72	1.30	0.23
SVD-03	11.73 - 14.32	1.35	0.25
SVD-04	14.33 - 19.57	1.65	0.38
SVD-05	19.58 - 22.27	1.80	0.51
SVD-06	22.28 - 25.42	1.90	0.60
SVD-07	25.43 - 30.50	2.28	0,68



Please contact us to know the number of SVD to use and how to position them for a given span.

04/2 - Protection against galloping - Air Flow Spoiler

To limit the effect of the galloping phenomenon characterized by low frequency and high amplitude oscillations, PLP has invented an efficient solution: the AFS (Air Flow Spoiler).

CHARACTERISTICS

- Rigid and anti-corrosion thermo-plastic structure
- Increases cable lifespan
- Wind and frost effect reduction due to its irregular shape
- For use on all spans

Reference	Ø range (mm)	Length (m)	Weight (kg)	Packaging	Colour Code
AFS-100	6.35 - 8.28	4.11	0.45		Red
AFS-101	8.31 - 11.70	4.11	0.45		White
AFS-102	11.73 - 14.30	4.27	1.02		Yellow
AFS-103	14.33 - 19.30	4.42	1.09		Yellow
AFS-104	19.33 - 23.52	4.57	1.93	1	Cyan
AFS-105	23.55 - 25.88	4.65	2.04		Black
AFS-106	25.91 - 29.59	4.80	2.49		Purple
AFS-107	29.62 - 37.31	4.88	2.61		Brown
AFS-108	37.34 - 40.69	5.18	4.31		Green
AFS-109	40.72 - 44.75	5.33	4.42		Pink



04/3 - Protection of cables against abrasion - PTG

To protect bare conductors and cables against abrasion from branches and other obstacles, PLP has designed anti-abrasion cable protection devices: Tree Guards.

CHARACTERISTICS

- Fitted directly around the cable
- Shock-resistant polyurethane
- Available in 2 colours: black and grey
- Strong abrasion resistance and high bad weather endurance
- High dielectric properties



Please consult us to find out which product reference (s) are best suited to your needs.

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Drop cable suspension (Ø : 4.8mm - 6.2mm)	S1001	7 et 9	Shackle	U-0770	11 et 12
Drop cable suspension (Ø : 6.2mm - 7.8mm)	S1002	9	Shackle straight steel 10mm	MD10	20
Drop cable suspension (Ø : 7.8mm - 9.5mm)	S1003	9	Spiral vibration damper (Ø : 6.35mm - 8.30mm)	SVD-01	21
Drop cable suspension (Ø : 9.5mm - 10.7mm)	S1004	9	Spiral vibration damper (Ø : 8.31mm - 11.72mm)	SVD-02	21
Drop cable suspension (Ø : 10.7mm - 12.8mm)	S1005	9	Spiral vibration damper (Ø : 11.73mm - 14.32mm)	SVD-03	21
Drop cable suspension (Ø : 12.8mm - 15mm)	S1006	9	Spiral vibration damper (Ø : 14.33mm - 19.57mm)	SVD-04	21
Drop cable suspension (Ø : 4.3mm - 4.8mm)	S1000E	7	Spiral vibration damper (Ø : 19.58mm - 22.27mm)	SVD-05	21
Drop cable suspension (Ø : 4.8mm - 6.2mm)	S1001E	7 et 9	Spiral vibration damper (Ø : 22.28mm - 25.42mm)	SVD-06	21
Drop cable suspension (Ø : 6.2mm - 7.8mm)	S1002E	9	Spiral vibration damper (Ø : 25.43mm - 30.50mm)	SVD-07	21
Drop cable suspension (Ø : 7.8mm - 9.5mm)	S1003E	9	Square base bracket for concrete pole	SMLQ539	16
Drop cable suspension (Ø : 9.5mm - 10.7mm)	S1004E	9	Stainless steel band cutter	CISF961	19
Drop cable suspension (Ø : 10.7mm - 12.8mm)	S1005E	9	Steel band 10x0.4mm	F1004P	19
Drop cable suspension (Ø : 12.8mm - 15mm)	S1006E	9	Steel band 10x0.7mm	F1007P	19
Drop dead-end bracket	CSL 16U	15	Steel band 20x0.4mm	F2004P	19
Extension	D/FO	10 à 12	Steel band 20x0.7mm	F2007P	19
Extension	EB-15-B	11 et 12	Suspension bracket	CS1500	15
Fixing plug for CVBQC screws on concrete facade	CHVE85	19	Suspension bracket compact	CSP	15
Fixing plug for CVBQC screws on concrete facade	CHVE128	19	Suspension bracket with pigtail bolt BQC1250	CSLS-BQC	15
Guy grip dead-end	GDE	20	Suspension clamp AGS (Ø : 8.71mm - 9.03mm)	GSAFO-01	14
Guying cable	HAB	20	Suspension clamp AGS (Ø : 9.04mm - 9.52mm)	GSAFO-02	14
Helical suspension AWSFO (Ø : 12.51mm - 13.26mm)	AWSFO-01	13	Suspension clamp AGS (Ø : 9.53mm - 9.90mm)	GSAFO-03	14
Helical suspension AWSFO (Ø : 13.27mm - 14.50mm)	AWSFO-02	13	Suspension clamp AGS (Ø : 9.91mm - 10.28mm)	GSAFO-04	14
Helical suspension AWSFO (Ø : 14.51mm - 15.50mm)	AWSFO-03	13	Suspension clamp AGS (Ø : 10.29mm - 10.63mm)	GSAFO-05	14
Helical suspension AWSFO (Ø : 15.51mm - 16.80mm)	AWSFO-04	13	Suspension clamp AGS (Ø : 10.64mm - 11.04mm)	GSAFO-06	14
Helical suspension AWSFO (Ø : 16.81mm - 17.80mm)	AWSFO-05	13	Suspension clamp AGS (Ø : 11.05mm - 11.45mm)	GSAFO-07	14
Helical suspension AWSFO (Ø : 17.81mm - 18.50mm)	AWSFO-06	13	Suspension clamp AGS (Ø : 11.46mm - 11.95mm)	GSAFO-08	14
Helical suspension AWSFO (Ø : 18.51mm - 20.00mm)	AWSFO-07	13	Suspension clamp AGS (Ø : 11.96mm - 12.23mm)	GSAFO-09	14
Helical suspension AWSFO (Ø : 20.01mm - 21.45mm)	AWSFO-08	13	Suspension clamp AGS (Ø : 12.24mm - 12.69mm)	GSAFO-10	14
Helical suspension AWSFO (Ø : 21.46mm - 22.90mm)	AWSFO-09	13	Suspension clamp AGS (Ø : 12.70mm - 13.02mm)	GSAFO-11	14
L-shaped bracket	LBW	15	Suspension clamp AGS (Ø : 13.03mm - 13.48mm)	GSAFO-12	14
L-shaped link	10056	7	Suspension clamp OFDPC (Ø : 7.00mm - 8.30mm)	OFDPC-070083	13
Mounting bolt	BH1425	19	Suspension clamp OFDPC (Ø : 8.40mm - 9.50mm)	OFDPC-084095	13
Mounting bolt	BH1460	19	Suspension clamp OFDPC (Ø : 9.60mm - 10.80mm)	OFDPC-096108	13
Nut M14	HM14	19	Suspension clamp OFDPC (Ø : 11.00mm - 11.90mm)	OFDPC-109121	13
Pigtail hook on threaded stem	GAE/FO	19	Suspension clamp OFDPC (Ø : 12.00mm - 12.90mm)	OFDPC-120125-3	13
Pigtail screw for wooden support	CVBQC545	19	Suspension clamp OFDPC (Ø : 13.00mm - 13.90mm)	OFDPC-130135-1	13
Pigtail screw for wooden support	CVBQC850	19	Suspension clamp OFDPC (Ø : 14.00mm - 14.90mm)	OFDPC-140145-3	13
Pigtail hook with bracket	GE/FO	19	Suspension clamp OFDPC (Ø : 15.00mm - 15.90mm)	OFDPC-150155-3	13
Piton with plug for concrete pole	CVE0840	19	Suspension clamp OFDPC (Ø : 16.00mm - 16.90mm)	OFDPC-160165-1	13
Pole bracket with rod	SEMAG12	20	Suspension clamp OFDPC (Ø : 17.00mm - 17.90mm)	OFDPC-170177-1	13
Pole extension	PTE	18	Suspension clamp OFDPC (Ø : 18.00mm - 18.90mm)	OFDPC-180185	13
Pole head bolt with plate	BH14225	19	Suspension clamp OFDPC (Ø : 19.00mm - 19.90mm)	OFDPC-190195	13
Preformed dead-end LT (Ø : 10mm - 11mm)	2872001	11	Suspension clamp OFDPC (Ø : 20.00mm - 21.00mm)	OFDPC-200210	13
Preformed dead-end LT (Ø : 11mm - 11mm)	2872002	11	Suspension clamp OFDPC (Ø : 21.10 mm - 22.90mm)	OFDPC-211221	13
Preformed dead-end LT (Ø : 12mm - 12mm)	2872003	11	Suspension clamp OFDPC (Ø : 22.20mm - 23.20mm)	OFDPC-222231	13
Preformed dead-end LT (Ø : 12mm - 13mm)	2872004	11	Suspension clamp OFDPC (Ø : 23.20mm - 24.10mm)	OFDPC-230241	13
Preformed dead-end LT (Ø : 13mm - 14mm)	2872005	11	Suspension clamp OFDPC (Ø : 24.20mm - 25.40mm)	OFDPC-242254	13
Preformed dead-end LT (Ø : 14mm - 15mm)	2872006	11	Suspension clamp OFDPC (Ø : 25.50mm - 26.70mm)	OFDPC-255267	13
Preformed dead-end LT (Ø : 15mm - 16mm)	2872007	11	Suspensions FASN (Ø : 8.27mm - 9.53mm)	4450197G	14
Preformed dead-end LT (Ø : 16mm - 17mm)	2872008	11	Suspensions FASN (Ø : 9.54mm - 10.80mm)	4450198G	14
Preformed dead-end LT (Ø : 17mm - 18mm)	2872009	11	Suspensions FASN (Ø : 10.81mm - 12.07mm)	4450199G	14
Preformed dead-end LT (Ø : 18mm - 19mm)	2872010	11	Suspensions FASN (Ø : 12.08mm - 13.34mm)	4450200G	14
Preformed dead-end LT (Ø : 19mm - 20mm)	2872011	11	Suspensions FASN (Ø : 13.35mm - 14.61mm)	4450201G	14
Preformed dead-end LT (Ø : 20mm - 21mm)	2872012	11	Suspensions FASN (Ø : 14.62mm - 15.88mm)	4450202G	14
Preformed dead-end LT (Ø : 21mm - 23mm)	2872013	11	Suspension hook bracket	CCR012	15
Preformed dead-end LT (Ø : 23mm - 24mm)	2872014	11	Thimble	69019	20
Preformed dead-end LT (Ø : 24mm - 26mm)	2872015	11	Thimble	TCB-27-B	11 et 12
Preformed dead-end LT (Ø : 26mm - 27mm)	2872016	11	Turnbuckle M12	TL12-OO	20
Preformed dead-end LT (Ø : 27mm - 29mm)	2872017	11	Universal pole hardware	UPH	15 et 20
			Wide L-shaped bracket	LBEW	15



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