CANUSA-CPS
Corrosion Protection & Sealing

PLA

Tubular sleeve for pipeline corrosion protection

The PLA is a heat shrinkable tubular sleeve designed for corrosion protection of buried and exposed steel pipelines. PLA consists of a crosslinked polyolefin backing, coated with a protective heat sensitive adhesive which effectively bonds to steel substrates and common pipeline coatings including polyethylene and fusion bonded epoxy.

Rapid & Reliable Installation

- PLA consists of a unique tubular configuration that has been factory constructed, resulting in a quick and reliable field installation.
- PLA is manufactured with a specially formulated adhesive to accommodate demanding operating temperatures and soil stress conditions.

Long Term Corrosion Protection

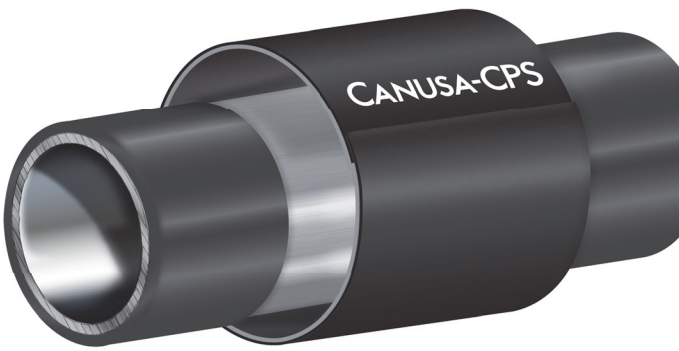
- PLA provides excellent resistance to cathodic disbondment resulting in effective long term corrosion protection.
- The high performance crosslinked backing in combination with the specially formulated adhesive is engineered to have excellent resistance against temperature cycling, and chemical and environmental attack.

Saves Time & Money

- With PLA's unique construction, less time is required handling, positioning and installing separate closures.
- This feature allows for a fast, simple and complete installation of the sleeve, with no primers required. This minimizes installation time and labour costs while promoting high production rates.

Applications

- Oil & Gas
- Water Pipelines
- Utility Poles



Sleeve Operating Characteristics	Test Method	Typical Values
Pipeline Operating Temp.		Up to 55°C (131°F)*
Minimum Installation Temp.		60°C (140°F)
Mainline Coating Compatibility		PE, FBE
Adhesive Properties		
Softening Point	ASTM E28	81°C
Lap Shear @ 23°C	ISO 21809-3	> 90 N/cm^2
Lap Shear @ 50°C	ISO 21809-3	> 5 N/cm^2
Backing Properties		
Tensile Strength	ASTM D638	20 MPa
Elongation	ASTM D638	600%
Hardness	ASTM D2240	46 Shore D
Volume Resistivity	ASTM D257	10^{17} ohm-cm
Sleeve Properties		
Adhesion Strength @ 23°C	ISO 21809-3	> 30 N/cm
Adhesion Strength @ 50°C	ISO 21809-3	> 9 N/cm
Impact Resistance	ISO 21809-3	Pass
Indentation Resistance	ISO 21809-3	Pass
Cathodic Disbondment @ 23°C, 28 days	ISO 21809-3	< 13 mm rad
Low Temp. Flexibility	ASTM D2671-C	-25°C
Thickness		
Backing (nominal thickness as supplied)		0.6 mm (0.025")
Adhesive (nominal thickness as supplied)		0.9 mm (0.035")

* Actual temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative.

Product Selection Guide

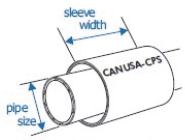
Choose your sleeve based on your pipe diameter.

Nominal Pipe Diameter		Outside Pipe Diameter		Tubular Sleeve	Tubular Sleeve Diamter			
				PLA-XXX-YYY ZZ	As Supplied		Fully Recovered	
DN 50	2"	61 mm	2.4"	PLA-55-YYY ZZ	90 mm	3.5"	55 mm	2.3"
DN 65	2.5"	76 mm	3"	PLA-63-YYY ZZ	90 mm	3.5"	63 mm	2.5"
DN 80	3"	89 mm	3.5"	PLA-90-YYY ZZ	120 mm	4.8"	81 mm	3.3"
DN 90	3.5"	102 mm	4"	PLA-100-YYY ZZ	130 mm	5"	90 mm	3.5"
DN 100	4"	114 mm	4.5"	PLA-115-YYY ZZ	145 mm	5.5"	98 mm	3.8"
DN 125	5"	141 mm	5.5"	PLA-125-YYY ZZ	160 mm	6.3"	110 mm	4.3"
DN 150	6"	168 mm	6.6"	PLA-170-YYY ZZ	205 mm	8"	140 mm	5.5"
DN 200	8"	219 mm	8.6"	PLA-230-YYY ZZ	260 mm	10"	180 mm	7"
DN 250	10"	273 mm	10.7"	PLA-280-YYY ZZ	315 mm	12.3"	211 mm	8.3"
DN 300	12"	324 mm	12.8"	PLA-315-YYY ZZ	360 mm	14"	245 mm	9.5"

For pipe diameters > DN 300 (12"), consult your Canusa representative.

How to Order

PLA 115-450 BK	Standard Ordering Options
Color	BK - Black
Sleeve Width	300 mm, 450 mm, 600 mm, 900mm (12", 18", 24", 36")
Pipe Size	55 mm - 315 mm (2" - 12")
Configuration	Product Name



Min. Sleeve Width = Bare Steel Dimension + **50 mm (2")** min. on each side of the pipe joint.

The above represents standard ordering options. Consult your Canusa-CPS representative for any unique project requirements.

Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications at info@canusacps.com.

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Quality Management system registered to ISO 9001

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