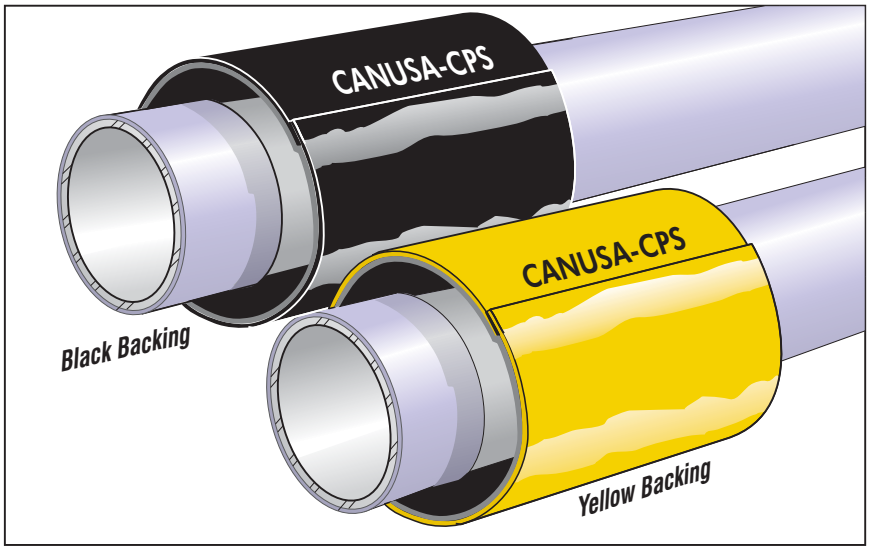
CanusaTube™ - PLA

Tubular sleeve for pipeline corrosion protection

For more than 35 years, 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.



Product Description

The CanusaTube™ is a heat shrinkable tubular sleeve designed for corrosion protection of buried and exposed steel pipelines. CanusaTube™ 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.

Features & Benefits

Rapid & Reliable Installation

Because CanusaTube™ consists of a unique tubular configuration that has been factory constructed, quick and reliable field installation is easy to accomplish. CanusaTube™ is available with a specially formulated adhesive to accommodate demanding operating temperatures and soil stress conditions. To further optimize installation, CanusaTube™ is available in yellow which includes a thermochromic indicator to visually confirm proper installation.

Long Term Corrosion Protection

CanusaTube™ 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 CanusaTube's™ unique construction, less time is required handling, positioning and installing separate closures. With the application of heat, this feature allows for fast, simple and complete installation of the sleeve. No additional costly primers are required. This minimizes installation time and labour costs while promoting high production rates. CanusaTube™ is also available in a high shrink ratio for high profile joint protection. Consult the High Shrink data sheet for additional information.

Applications

- Oil & Gas
- Girth-Weld Joints
- Water Pipelines
- Pre-Insulated Pipes
- Utility Poles

Configurations

- CanusaTube™
- 2-Layer
- Standard Shrink

Pipe Sizes

55 - 315 (2" - 12")

Temperature Range

up to 55°C (131°F)

Approvals

DIN 30672

The product selection chart shown here is intended as a guide for standard products.
Consult your Canusa representative for specific projects or unique applications.
The following are typical values based on Black, Heavy Duty (L) Sleeves.

CanusaTube™ - PLA

Product Selection Guide

Choose your sleeve based on your Pipe Diameter

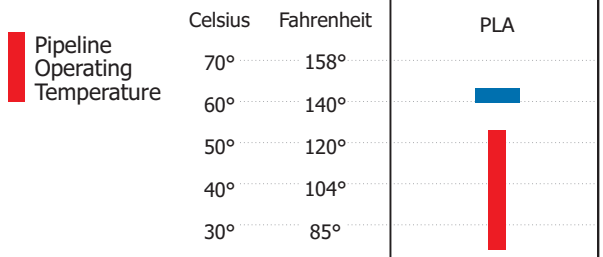
Shrink Range

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

For pipe diameters > DN300 (12"), consult your Canusa representative.

Operating Characteristics

Sleeve Operating Characteristics



	Hot Melt PLA
Minimum Installation Temp. °C (°F)	60 (140)
Resistance to Circumferential Forces	very good
Resistance to Soil Stress	very good
Resistance to Axial Pipe Movement	very good
Main Line Coating Compatibility	PU, PE, FBE, PP

Typical Product Properties

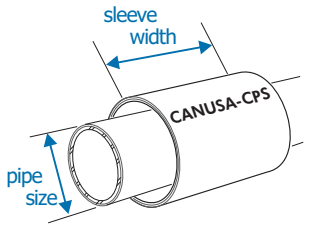
		Test Standard	Unit	PLA
Adhesive	Softening Point	ASTM E28	°C (°F)	72 (162)
	Lap Shear	DIN 30 672	N/cm² (psi)	60 (87)
Backing	Specific Gravity	ASTM D792		0.93
	Tensile Strength	ASTM D638	MPa (psi)	20 (2900)
	Elongation	ASTM D638	%	600
	Hardness	ASTM D2240	Shore D	46
	Abrasion Resistance	ASTM D1044	mg	45
	Volume Resistivity	ASTM D257	ohm-cm	10^{17}
	Dielectric Voltage Brkdwn.	ASTM D149	kV/mm	20
Sleeve	Impact	DIN 30 672	class B	pass
	Indentation	DIN 30 672	class B	pass
	Peel	ASTM D1000	N/cm (pli)	50 (29)
	Peel	DIN 30 672	N/cm (pli)	35 (20)
	Cathodic Disbondment	ASTM G8	mm rad	13
	Water Absorption	ASTM D570	%	0.05
	Low Temp. Flexibility	ASTM D2671-C	°C (°F)	-32 (-26)
	DIN Approval	DIN 30 672	class	B50
	Fully Recovered Thickness		mm (mils)	2.3 (92)

How To Order:

Dimensions & Ordering Info

PLA 115-450 YE

	Standard Ordering Options
Colour	**YE** - Yellow, **BK** - Black
Sleeve Width	**300mm, 450mm, 600mm, 900mm (12", 18", 24", 36")**
Pipe Size	**55mm - 315mm (2" - 12")**
Adhesive (thickness as supplied)	**A - 0.75 mm (30 mils)**
Backing (thickness as supplied)	**L - 0.80 mm (31 mils)**
Configuration	**P** - Tubular



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

The above represent standard ordering options. Consult your Canusa representative for any unique project requirements.

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