

# Carlton® Snap-N-Stac™ Combo Spacers

Carlton® Snap-N-Stac™ Combo Duct Spacers are specifically designed to replace the two-piece base and intermediate spacer system, by combining the conventional base and intermediate spacer into a single unit!

Manufactured out of highly engineered thermoplastic material, Snap-N-Stac Spacers are strong, durable and able to withstand the rigors of concrete construction. They feature an innovative horizontal and EXCLUSIVE Vertical locking system and can be used as either a base or intermediate spacer.

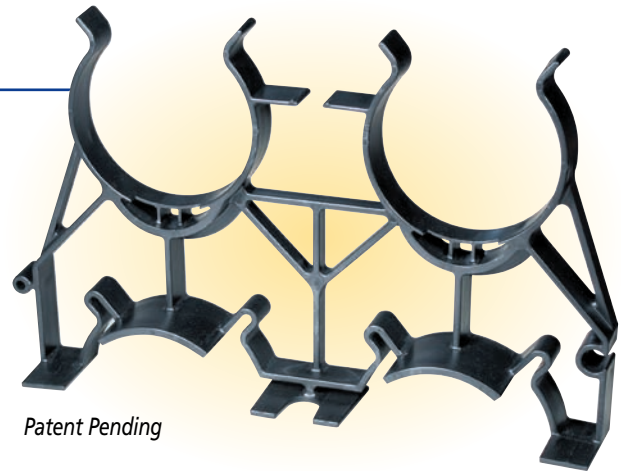
Snap-N-Stac Spacers are available in duct sizes 2", 3", 4", 5", and 6" and can be installed horizontally, vertically or turned up-right for unique duct bank configurations.

This NEW one-piece design makes underground duct bank installations faster and easier than the conventional two-piece system— saving material and labor costs.

Carlton® Snap-N-Stac Combo Spacers...The IDEAL Solution for Underground Duct Bank Installations.

## Features:

- Conventional Base and Intermediate Spacer in a Single Unit!
- EXCLUSIVE Vertical Locking System
- Horizontal Locking System
- Installs Horizontally or Turned Upright
- Molded-In Rebar Holder
- 5 Sizes: 2", 3", 4", 5", and 6"
- Reducer to Accommodate Smaller Duct Sizes
- Can Be Used as Either an Intermediate or Base Spacer
- Spacers Interlock Horizontally Regardless of Size
- Nonmetallic, Noncorrosive, Nonconductive
- Strong and Durable
- Easy to Handle
- Fast Installation



Patent Pending

## Installations



Horizontal Locking



Vertical Interlocking



With Reducer



Free Standing

*Innovative Solutions For Wire and Cable Management.*

# Specifications

Part Number	Description	Std. Carton Qty.	Std. Carton Wt. (lbs.)
SP2W20-2	2" Two-Way Snap-N-Stack Spacer - 2" Separation	56	28.5
SP2W30-2	2" Two-Way Snap-N-Stack Spacer - 3" Separation	40	23.8
SP3W20-2	3" Two-Way Snap-N-Stack Spacer - 2" Separation	40	24.0
SP3W30-2	3" Two-Way Snap-N-Stack Spacer - 3" Separation	24	17.9
SP4W15-2	4" Two-Way Snap-N-Stack Spacer - 1-1/2" Separation	26	18.3
SP4W20-2	4" Two-Way Snap-N-Stack Spacer - 2" Separation	24	18.8
SP4W30-2	4" Two-Way Snap-N-Stack Spacer - 3" Separation	20	17.6
SP5W20-2	5" Two-Way Snap-N-Stack Spacer - 2" Separation	20	17.2
SP5W30-2	5" Two-Way Snap-N-Stack Spacer - 3" Separation	14	15.5
SP6W20-2	6" Two-Way Snap-N-Stack Spacer - 2" Separation	12	12.8
SP6W30-2	6" Two-Way Snap-N-Stack Spacer - 3" Separation	12	14.1
S287F	1" Snap-Loc Reducer	100	2.1
S287J	2" Snap-Loc Reducer	100	4.8
S28612	Beaded Strap	100	0.4

## How to Interpret the Part Number

Position 1	Position 2	Position 3	Position 4
Product Type	Duct Size	Duct-To-Duct Spacing - Horizontal and Vertical	Horizontal Duct Positions
SP = Spacer	2W = 2" Width	15 = 1-1/2"	2 = Two
	3W = 3" Width	20 = 2"	
	4W = 4" Width	30 = 3"	
	5W = 5" Width		
	6W = 6" Width		

## Technical Information

Part Number	Duct Size	Duct OD	Horizontal Duct Positions	Duct-To-Duct Spacing		Center-To-Center Spacing		Bottom of Trench to Bottom of Duct	Bottom of Trench to Center of Bottom Duct	Overall Length
				Vertical (Inches)	Horizontal (Inches)	Vertical	Horizontal			
SP2W20-2	2"	2.375	2	2	2	4.38	4.38	3.13	4.25	8.75
SP2W30-2	2"	2.375	2	3	3	5.38	5.38	4.13	5.25	10.75
SP3W20-2	3"	3.500	2	2	2	5.50	5.50	3.63	5.38	11.00
SP3W30-2	3"	3.500	2	3	3	6.50	6.50	4.63	6.38	13.00
SP4W15-2	4"	4.500	2	1.5	1.5	6.00	6.00	3.38	5.56	12.00
SP4W20-2	4"	4.500	2	2	2	6.50	6.50	3.88	6.06	13.00
SP4W30-2	4"	4.500	2	3	3	7.50	7.50	4.88	7.06	15.00
SP5W20-2	5"	5.500	2	2	2	7.56	7.56	4.38	7.25	15.12
SP5W30-2	5"	5.500	2	3	3	8.56	8.56	5.38	8.25	17.14
SP6W20-2	6"	6.625	2	2	2	8.62	8.62	4.13	7.38	17.25
SP6W30-2	6"	6.625	2	3	3	9.62	9.62	5.13	8.38	19.25

**Carlon**  
LAMSON & SESSIONS

In USA, contact:  
25701 Science Park Drive • Cleveland, Ohio 44122  
1-800-3-CARLON (1-800-322-7566) • In Ohio, (216) 464-3400  
Fax: (216) 766-6444  
TDD/Hearing Impaired Access (216) 831-5918  
www.carlon.com

7F78 2.5M SP 10/06  
© Lamson & Sessions 2006

In Canada, contact:  
Lamson & Sessions Ltd. • 121 Watline Avenue  
Mississauga, Ontario • Canada L4Z 1P2  
(905) 755-1262 • (888) 269-9902  
Fax: (905) 755-1265 • (888) 269-8622

## Carlton® Snap-Loc® Spacers

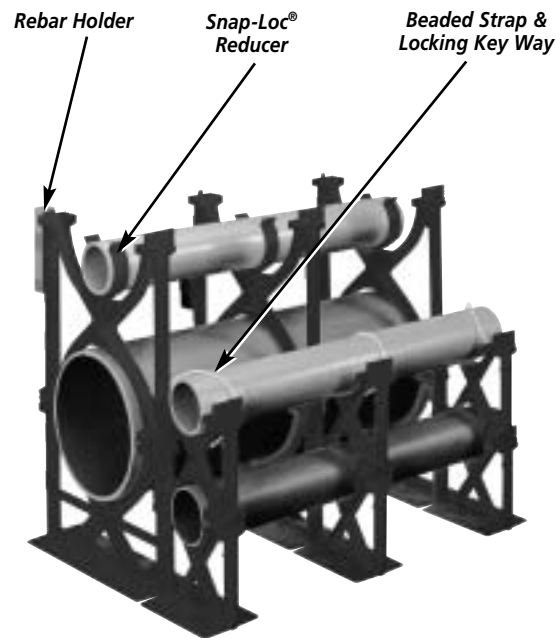
**NEW!**  
**8" Spacers**

Carlton Snap-Loc duct spacers provide stability, consistent separation and relieve direct stress for duct materials encased in concrete, and direct bury applications.

Carlton Snap-Loc Spacers provide:

- A side dovetail rail and groove design allowing for side-by-side interchangeability of conduit spacer sizes while maintaining horizontal stability.
- Locking key ways incorporated into intermediate spacers eliminate the need for costly top spacers in each size. The locking key ways provide for the use of a beaded strap that secures the top section of conduit.
- 1" and 2" Snap-Loc Reducers allow fixturing of 1" or 2" conduit inside larger spacers.
- The Snap-Loc Rebar Holder provides stabilization on large banks of spacers.

Nonmetallic Snap-Loc Spacers are designed specifically for use with nonmetallic duct, with maximum O.D. dimensions as specified in NEMA TC-2, TC-6 & 8, TC-10 and ASTM F512. The innovative vertical and horizontal interlocking Snap-Loc design has tapered joining slots with maximum tolerances for easy job site assembly.



### **IMPORTANT:**

1. The use of duct spacers for direct burial may result in excessive point deflections unless proper design engineering is applied, such as the proper compaction of the appropriate backfill material.
2. Carlton is NOT responsible for Snap-Loc Spacers used in direct bury applications... design engineers and contractors are responsible for the design of the installation.

# Snap-Loc Spacers

## Dimensions – Base Spacers

Part No.	Size*	A	C	D (Dia.)	Std. Ctn. Qty.
S288JHN	2x1 1/2	4.25	4.12	2.50	100
S288JIN	2x2	4.25	4.62	2.50	100
S288JLN	2x3	4.25	5.62	2.50	100
S288LHN	3x1 1/2	4.81	5.25	3.63	90
S288LIN	3x2	4.81	5.75	3.63	80
S288LLN	3x3	4.81	6.75	3.63	60
S288NFN	4x1	5.31	5.75	4.63	70
S288NHN	4x1 1/2	5.31	6.25	4.63	50
S288NJN	4x2	5.31	6.75	4.63	50
S288NLN	4x3	5.31	7.75	4.63	60
S288PHN	5x1 1/2	5.84	7.31	5.69	50
S288PJN	5x2	5.84	7.81	5.69	60
S288PLN	5x3	5.84	8.81	5.69	50
S288RHN	6x1 1/2	6.38	8.38	6.75	50
S288RJN	6x2	6.38	8.88	6.75	50
S288RLN	6x3	6.38	9.88	6.75	40
S288SHN	8x1 1/2	7.38	10.30	8.75	30
S288SJN	8x2	7.38	10.76	8.75	30

## Dimensions – Intermediate Spacers

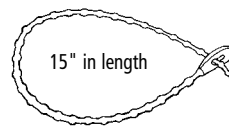
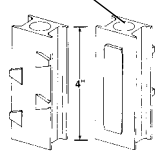
Part No.	Size*	B	C	D (Dia.)	Std. Ctn. Qty.
S289JHN	2x1 1/2	3.88	4.12	2.50	120
S289JIN	2x2	4.38	4.62	2.50	100
S289JLN	2x3	5.38	5.62	2.50	80
S289LHN	3x1 1/2	5.01	5.25	3.63	100
S289LIN	3x2	5.51	5.75	3.63	80
S289LLN	3x3	6.51	6.75	3.63	60
S289NFN	4x1	5.51	5.75	4.63	70
S289NHN	4x1 1/2	6.01	6.25	4.63	60
S289NJN	4x2	6.51	6.75	4.63	60
S289NLN	4x3	7.51	7.75	4.63	50
S289PHN	5x1 1/2	7.07	7.31	5.69	50
S289PJN	5x2	7.57	7.81	5.69	50
S289PLN	5x3	8.57	8.81	5.69	30
S289RHN	6x1 1/2	8.14	8.38	6.75	50
S289RJN	6x2	8.64	8.88	6.75	40
S289RLN	6x3	9.64	9.88	6.75	30
S289SHN	8x1 1/2	10.14	10.30	8.75	30
S289SJN	8x2	10.64	10.76	8.75	30

\*First number indicates trade size of duct, second number indicates separation between conduits or ducts.

## Accessories



Hole Dia. = .688 min.  
.750 max.



15" in length

### Snap-Loc® Reducer

Part No.	Size	Std. Ctn. Qty.
S287F	1"	100
S287J	2"	100

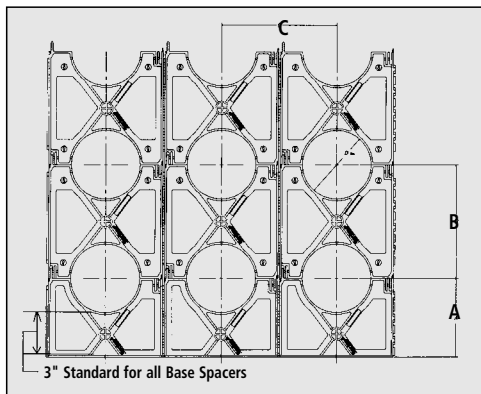
### Rebar Holder

Part No.	Std. Ctn. Qty.
S258RH	100

### Beaded Strap

Part No.	Std. Ctn. Qty.
S28612	100

## Specifications



## Suggested Specification

(Duct) (Conduit) bank shall be encased in concrete with at least three inches of concrete at the top and bottom and two inches on each side. A horizontal and vertical separation between the ducts of \_\_\_\_\* inches shall be maintained by installing Carlon high impact spacers with horizontal and vertical locking intervals of \_\_\_\_\*\* feet.

\*Standard Separations of 1", 1 1/2", 2", and 3" are available.

\*\*Preferred interval between spacer assemblies is 8 to 10 feet.

## Installation note

The Spacers and Rebar Holder are designed with a dovetail tongue and groove feature for easy installation.

If required to permanently fix the position of a group of Spacers and/or Rebar Holder, the following are recommended procedures:

1. Use Carlon Quick-set Cement glue during assembly or spot glue after assembly to secure.
2. During assembly, deform the edge of the tongue or groove portion of the dovetail slide with a pair of pliers or similar tool. This deformation will create an interference, restricting movement.
3. An assembled system may be wired together for additional support.

### IMPORTANT:

1. The use of duct spacers for direct burial may result in excessive point deflections unless proper design engineering is applied, such as the proper compaction of the appropriate backfill material.
2. Carlon is not responsible for Snap-Loc Spacers used in direct bury applications... design engineers and contractors are responsible for the design of the installation.