



**SNAP-N-STAC™ SPACER**  
**ISSUE 6-06A**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

This specification covers Snap-N-Stack™ duct spacers designed to provide stability, and consistent separation between ducts. They support duct banks and relieve direct stress on the duct materials, whether encased in concrete and in a direct buried application. The spacer system is suitable for duct bank installation of electrical, power, voice, data, video and other cables. All necessary spacers, fittings and accessories shall be provided by the same manufacturer for a complete duct bank and raceway system.

**1.02 REFERENCES**

- A. 2005 National Electric Code, Annex B
- B. NEMA TCB2

**1.03 SYSTEM DESCRIPTION**

Spacer system shall be manufactured in accordance with the dimensional and performance requirements that provide the proper spacing and support for conduit systems.

**1.04 SUBMITTALS**

- A. Submit each type of spacers and accessory upon request
- B. Submit product data including
  - 1. Product specifications
- C. Delivery, storage and handling

**PART 2 PRODUCT**

**2.01 ACCEPTABLE MANUFACTURERS**

- A. Carlton®, a division of Lamson & Sessions
- B. Other manufacturers may be considered, as long as they meet all Snap-N-Stack™ performance, dimensional and material specifications, and are evaluated and approved by a qualified engineer.

## 2.02 MATERIALS

- A. Spacers shall be made of engineered thermoplastic high impact polystyrene, that incorporate both intermediate and base spacer functions into a single unit
1. Shall provide a strong and durable, non-metallic, non-corrosive and non-conductive support system.
- B. Shall be manufactured to duct outside diameter dimensions as specified in NEMA TC-2, TC-6 & 8 and ASTM F512.

Technical Information								
Duct Size	Duct OD	Duct-to-Duct Spacing		Center-to-Center Spacing		Bottom of trench to bottom of duct	Bottom of trench to center of duct	Overall Length
		Vertical (inches)	Horizontal (inches)	Vertical	Horizontal			
2"	2.375	2	2	4.38	4.38	3.13	4.25	8.75
2"	2.375	3	3	5.38	5.38	4.13	5.25	10.75
3"	3.500	2	2	5.50	5.50	3.63	5.38	11.00
3"	3.500	3	3	6.50	6.50	4.63	6.38	13.00
4"	4.500	1.5	1.5	6.00	6.00	3.38	5.56	12.00
4"	4.500	2	2	6.50	6.50	3.88	6.06	13.00
4"	4.500	3	3	7.50	7.50	4.88	7.06	15.00
5"	5.500	2	2	7.56	7.56	4.38	7.25	15.12
5"	5.500	3	3	8.56	8.56	5.38	8.25	17.14
6"	6.625	2	2	8.62	8.62	4.13	7.38	17.25
6"	6.625	3	3	9.62	9.62	5.13	8.38	19.25

- C. Shall contain both a horizontal and vertical locking system
1. Horizontal locking system shall enable any spacers to be interlocked regardless of size.
  2. Locking mechanisms shall enable quick and efficient installation without the need for glue or epoxy of any type.
- D. A rebar holder may be molded into each spacer to provide a tie-down location for a rebar anchoring system
- E. Design shall enable spacer to be utilized as a conventional base or intermediate spacer without need for additional components.

## 2.03 MANUFACTURERS UNITS

- A. Spacers shall be available in IPS duct dimensions ranging from 2" through 6" with various spacing as determined by NEC 2005, ANNEX B

## 2.04 FITTINGS

- A. Manufacturer shall make available reducers to enable smaller sized conduits to be used in the system without the need for change of spacer system

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Refer to 2005 National Electric Code – Annex B for appropriate spacing requirements
- B. Manufacturer shall provide Technical Assistance Hotline and/or dedicated Product Specialists available for field support
- C. Snap-N-Stack™ spacers shall be used in concrete encased applications only.
  - 1. The spacers shall not be used in direct bury applications. Direct bury installation may result in excess point loading and uncontrolled duct deflection.
- D. Manufacturer shall provide installation instruction sheets with spacers to ensure appropriate installation/interlocking of the spacers.