

# SPN Series

## P-Clamps - Steel

**PRO-POWER**  
Quality Cables



### Features:

- Secure clamping of cables.
- Santoprene meets MIL R-3065 and AMS-3209 specifications.
- Santoprene cushion prevents chafing.
- Zinc electroplated.
- Cushion provides electrical insulation and vibration absorption.
- Zinc Plated with Santoprene Cushion.

### Standard Material Specifications:

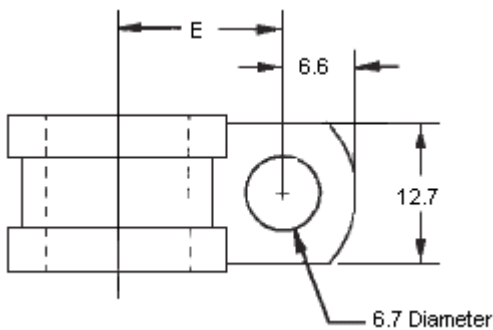
#### Zinc Electroplate (commercial grade)

Thickness of plate 0.0002 is the industry standard with a clear dichromate. Appearance is light bluish silver. Baking is carried out to prevent hydrogen embrittlement where applicable.

### Advantages:

- Excellent electrical conductivity.
- Moderate corrosion resistance.  
Salt Spray test : Standard 5% NaCL at 95°F.
- End point rust after 36 hours.
- Base test material is CRS (Cold-Rolled Steel).

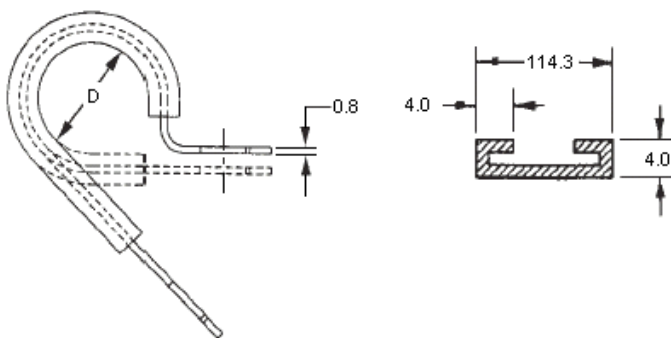
Note: Various dichromate finishes of different colour can be used for colour coding or aesthetic purposes, example antique brass finish.



### Santoprene Specifications:

#### Description:

- A pliable black extrusion.
- Excellent insulator/Isolator for electrical installation.
- Consistent thickness throughout.



### Mechanical Properties:

Retention of tensile properties after exposure to outdoor elements.

Time (hours)	Tensile Strength	Elongation	100% Modulus
1000	103%	94%	104%
2000	102%		106%

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### Heat aging, (retention of mechanical properties) at 275°F

Hardness Change (hours)	24	167	360	720	1000
Shore A Units	-1	-1	0	+2	+4
Tensile Strength % Retention	94	100	105	120	108
Ultimate Elongation % Retention	87	98		105	89
100% Modulus % Retention	101	103	104	107	112

### Specification Compliance:

Mil : R-3065  
SAE : 3209H  
ASTM : D-2000  
ASTM : D-471

### Fluid Resistance

	Hours	Temperature	Grade 101-73	
Water	166	212	5	
Antifreeze		257	4	
15% Salt		73	0	
50% Sodium Hydroxide				
98% Sulphuric Acid				4
ASTM#1 Oil		212	29	
ASTM#2 Oil			49	
ASTM#3 Oil			65	
Skydrol® 500 (B-4)			-13	
Pydrol® 312 (c)			257	22
Sumvis 706				55
Brake Fluid		212	-18	
Transmission Fluid		257	59	
Reference Fuel B		73	42	
Lithium Grease		212	33	

### Specification Table

Holding Diameter "D"	"E" Reference	Standard Pack	Part Number
3/16 (4.8)	0.50 (12.7)	25 per Pack	SPN-3
1/4 (6.4)	0.53 (13.5)		SPN-4
3/8 (9.5)	0.59 (15.0)		SPN-6
1/2 (12.7)	0.65 (16.5)		SPN-8
3/4 (19.1)	0.84 (21.3)		SPN-12
1 (25.4)	0.96 (24.4)		SPN-16

Dimensions : Inches (Millimetres )

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### Notes:

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