ProSNS® Series
FSNS59BNCU Specifications Sheet

BELDEN
SENDING ALL THE RIGHT SIGNALS®

ProSNS® connectors combine innovation and performance reliability.

ProSNS Universal BNC Connector: FSNS59BNCU
For CATV or HDSDI Applications. For CCTV Application, Use Connector Part Number FSNS59BNCSL.

Features
A patented 360° floating-pin basket is incorporated into the design of the ProSNS BNC connector. By positioning the pin basket at the back end of the connector, the insertion of the cable center conductor is easier and more accurate. Once the pin basket is properly seated inside the connector, it is then compressed around the cable center conductor by an outer plastic sleeve.

FSNS59BNCU

Detachable Plastic Sleeve

Floating Pin

Physical Properties
- Nut and Collar: NiTin Plated Brass
- Post: Tin Plated Brass

Electrical Properties
- Return Loss: $\geq$ -32 dB up to 1 GHz typical
- Insertion Loss: $\leq$ -0.2 dB up to 1 GHz typical
- RFI Shielding: -85 dB typical (60% bonded foil)

Mechanical Properties
- Cable Insertion Force: 20 lbs. maximum
- Cable Retention Force: 40 lbs. minimum per SCTE IPS SP-401

Environmental Properties
- Temperature Rating: -40 ºF (-40 ºC) to 140 ºF (60 ºC)
- Salt Fog: Passes 1000 hours ANSI/SCTE 143 2007

Cable Sizes

Inches	Minimum	~	Maximum
Center	.0317	~	.0339
Dielectric	.144	~	.157
Outer Jacket	.232	~	.273

Millimeters	Minimum	~	Maximum
Center	.81	~	.86
Dielectric	3.66	~	3.99
Outer Jacket	5.89	~	6.93

Recommended Installation Tools

CPLCCT-SLMR

CPSNSCT-596

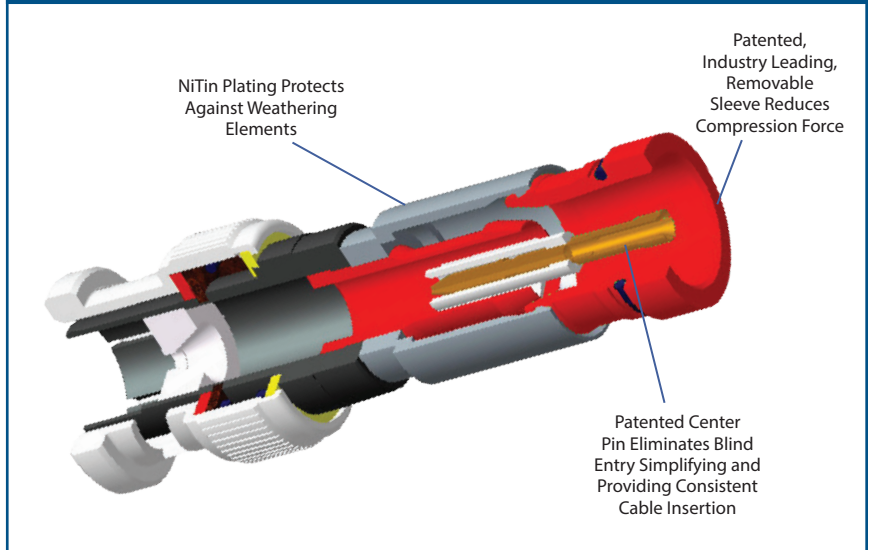PSA59/6

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Quality in Design

The ProSNS connector series combines patented technologies and traditional, easy-to-use installation techniques together to create a high-quality connector family.

These connectors are designed using a patented guide and pin basket design. By positioning the floating pin 360° basket at the back end of the connector, it simplifies the insertion of the cable center conductor. The pin basket is compressed around the center conductor by a plastic compression ring.

Internal Depiction of a ProSNS BNC Connector

NiTin Plating Protects Against Weathering Elements

Patented, Industry Leading, Removable Sleeve Reduces Compression Force

Patented Center Pin Eliminates Blind Entry Simplifying and Providing Consistent Cable Insertion
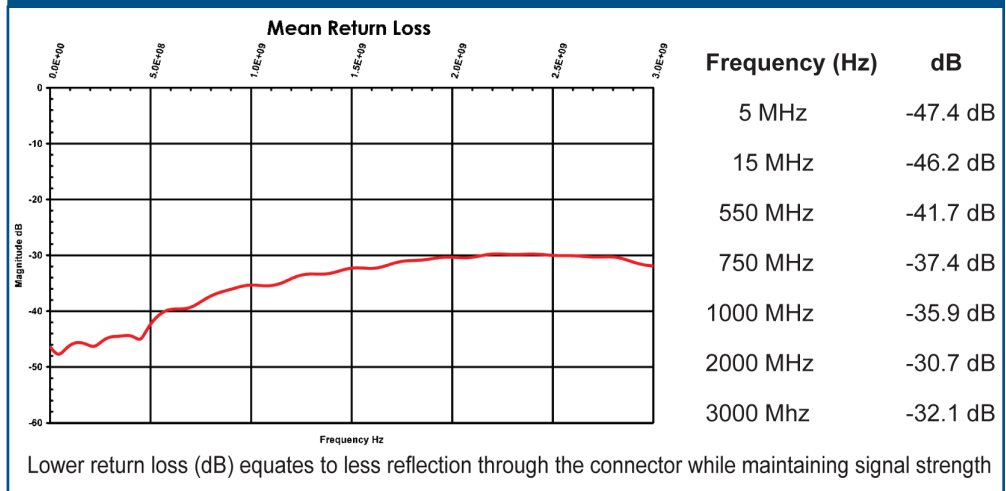
Return Loss Performance

The return loss performance should be one of the most important factors in choosing a connector. Return loss (RL) represents the quality and consistency of the signal path. Better (more negative) RL measurements are the result of better impedance stability within the signal path and, therefore, lower reflected signal loss in the path.

All Belden ProSNS connectors meet or exceed SCTE return loss standards, providing superior return loss results and a dependable, high-quality signal.

ProSNS RG59 BNC Connector RL Performance

Mean Return Loss

Frequency (Hz)	dB
5 MHz	-47.4 dB
15 MHz	-46.2 dB
550 MHz	-41.7 dB
750 MHz	-37.4 dB
1000 MHz	-35.9 dB
2000 MHz	-30.7 dB
3000 Mhz	-32.1 dB

Lower return loss (dB) equates to less reflection through the connector while maintaining signal strength

CE

FSNS59BNCU

Part Number*	Description	Impedence (Ohms)	Color Band	Recommended Tools**
FSNS59BNCU	Universal BNC Connector for Standard or Quad-Shield RG59 Cable *For CATV or HDSDI Applications. For CCTV Application, Use Connector Part Number FSNS59BNCSL.*	75	Red	CPLCCT-SLMR or CPSNSCT-596

*RG59 ProSNS Connectors are also available in retail packaging when ordered with [Part Number]-R.
** Most industry compression tools are compatible with ProSNS Connectors

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