

Product Bulletin

PB479

Snap-N-Seal® ProSNS™ Compression Connectors

Specifically designed to combine the patented technologies of Snap-N-Seal® and F-Conn® to provide ease of installation and quality performance, the Belden Snap-N-Seal® ProSNS™ connectors deliver a reliable connection for a variety of applications.

Environmentally sealed ProSNS™ connectors combine innovation and performance reliability



Snap-N-Seal® ProSNS™ Compression Connectors

Belden delivers industry-leading products by emphasizing superior quality and easy installation to provide a brand you can depend on to deliver innovation and reliability. By combining the advanced, patented design features of F-Conn® and the traditional, easy-to-use Snap-N-Seal® construction, we have created the industry's best compression connectors as part of the Snap-N-Seal® brand.

Designed for the Commercial and Residential Audio/Video, Security, and Broadband markets, this line of connectors provides a dependable, high-performance connection for all your Series 11, 6, and 59 coaxial installations.

- The ProSNS™ connector family includes F, RCA and BNC universal connectors for series 6 and 59 coaxial cables as well as F and BNC connectors for series 11 coaxial cables
- RGB/mini, plenum, and right angle connectors are also available in traditional configurations

- All ProSNS™ connectors utilize TRUE 360° compression onto the cable providing superior RF shielding performance, -85 dB effective shielding (typical on 60% bonded foil cable)
- The patented floating-pin insertion guide assists with the insertion of the cable into the connector and reduces the insertion force required to provide consistency and easy termination of the connector
- An additional O-ring placed at the base of the connector with a NiTin finish and UV resistant plastic provides a reliable, environmentally sealed product on the cable
- ProSNS™ RG-11 connectors are designed utilizing an air dielectric for better performance and excellent return loss
- Low insertion force is required to compress the connector onto the cable
- The improved design offers the flexibility to be installed with nearly all available compression tools
- Installation requires the industry standard 1/4"-1/4" cable preparation



Innovation & Performance Reliability

Installations in Commercial and Residential Audio/Video, Security, and Broadband markets will be a "snap", thanks to the low compression force associated with traditional Snap-N-Seal® connectors along with the patented non-blind entry with a floating pin design from F-Conn®.



FSNS6U
ProSNS™ Universal F Connector



FSNS59RCAU
ProSNS™ Universal RCA Connector



FSNS59BNCU
ProSNS™ Universal BNC Connector



SNS1P11H and 716SNS1P11HPLA
ProSNS™ Universal RG-11 Connectors

ProSNS™ Universal F Connector

The ProSNS™ F type connectors use a patented, removeable plastic sleeve guide designed to assist with the insertion of the cable center conductor to simplify the installation. As the cable center conductor is inserted into the back end of the connector, the removeable plastic guide is pushed forward and out from the front end of the connector. When the guide is completely pushed out from the front of the connector, it will detach and fall out. This design feature is to guide the insertion of the cable, and to help identify when the cable center conductor is fully and properly inserted into the connector.

A patented internal O-ring at the base of the nut facilitates a free-spinning nut design to ease installation.

ProSNS™ Universal RCA Connector

The patented removeable plastic sleeve guide is also a design feature of the ProSNS™ RCA connector. The plastic guide is attached to the front of the RCA pin. As the cable center conductor is inserted into the RCA pin and pushed forward, the removeable plastic guide is pushed up and out of the front end of the connector. The plastic guide will need to be detached and removed from the RCA pin, once the cable and pin are properly inserted into the connector.

ProSNS™ Universal BNC Connector

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.

ProSNS™ RG-11 Connector

The ProSNS™ RG-11 connectors True 360° compression technology provides high quality 75Ω performance and superior return loss. The floating pin allows for non-blind entry.

The ProSNS™ RG-11 connector family comes in a variety of configurations to meet nearly every RG-11 installation need. This includes plenum and quad-shield cable. A 90° connector is also available for greater installation flexibility.

Like our 59 and 6 connectors, the ProSNS™ RG-11 F connectors utilize a plastic pin guide for greater connector performance and easy installation.



FSNS6BNCU
ProSNS™ Universal BNC Series 6 Connector

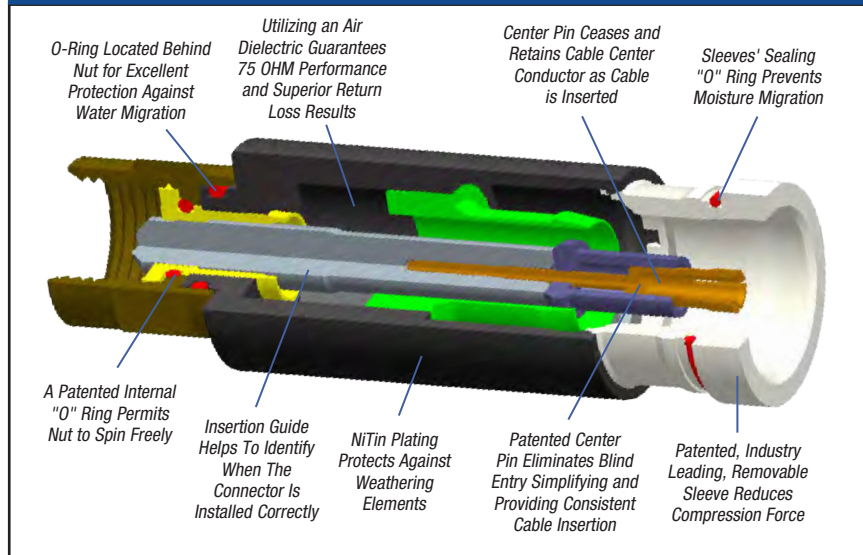
Quality in Design

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.

The ProSNS™ RG-11 compression connector utilizes an air dielectric within the transition area of the connector contributing to an improved return loss result.

Internal Depiction of a ProSNS™ RG-11 Connector



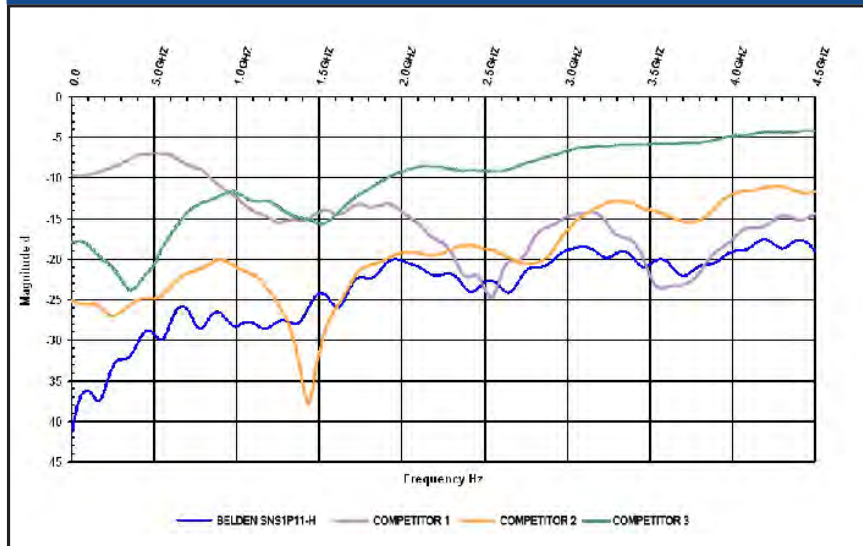
Return Loss Performance

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 connectors meet or exceed SCTE return loss standards, providing superior return loss results and a dependable, high-quality signal. The data shown represents the standard performance of a ProSNS™ RG-11 connector.

-29.21 dB up to 1 GHz -19.12 dB up to 4 GHz
 -20.14 dB up to 2 GHz -19.04 dB up to 4.5 GHz
 -18.81 dB up to 3 GHz

ProSNS™ RG-11 Connector RL Performance



Product Offering

The ProSNS™ connector family includes F, RCA and BNC universal (fits standard through quad-shield cable) connectors for series 6 and 59 coaxial cables. RGB/mini, plenum and right angle configurations are available in traditional F-Conn® or Snap-N-Seal® configurations.

RG-59 Cable

Part Number*	Cable Type	Description	Impedance (ohms)	Color Band	Tool Required
FSNS59U	RG-59	Universal "F" Connector for Standard or Quad-Shield Cable	75	Red	CPLCCT-SLM
FSNS59BNCU	RG-59	Universal BNC Connector for Standard or Quad-Shield Cable	75	Red	CPLCCT-SLM
FSNS59RCAU	RG-59	Universal RCA Connector for Standard or Quad-Shield Cable	75	Red	CPLCCT-SLM

RG-6 Cable

Part Number*	Cable Type	Description	Impedance (ohms)	Color Band	Tool Required
FSNS6U	RG-6	Universal "F" Connector for Standard or Quad-Shield Cable	75	Green	CPLCCT-SLM
FSNS6BNCU	RG-6	Universal BNC Connector for Standard or Quad-Shield Cable	75	Green	CPLCCT-SLM
FSNS6RCAU	RG-6	Universal RCA Connector for Standard or Quad-Shield Cable	75	Green	CPLCCT-SLM

RG-11 Cable

Part Number*	Cable Type	Description	Impedance (ohms)	Color Band	Tool Required
716SNS1P11H	RG-11	7/16" Universal "F" Connector for Standard or Quad-Shield Cable	75	Black	CPLCCT-LS59/11
716SNS1P11HPLA	RG-11 Plenum	7/16" "F" Connector for Plenum Cable	75	Gray	CPLCCT-LS59/11
716SNS1P11HQ	RG-11 Quad	7/16" "F" Connector for Quad-Shield Cable	75	Purple	CPLCCT-LS59/11
SNS1P11H	RG-11	9/16" Universal "F" Connector for Standard or Quad-Shield Cable	75	Black	CPLCCT-LS59/11
90SNS1P11H	RG-11	"F" Connector, Right Angle for Standard or Quad-Shield Cable	75	Black	CPLCCT-LS59/11
FSNS11HBNC	RG-11	Universal BNC Connector for Standard or Quad-Shield Cable	75	Black	SNSUNI
FSNS11HBNCPLA	RG-11 Plenum	BNC Connector for Plenum Cable	75	Gray	SNSUNI
FSNS11QHBNC	RG-11 Quad	BNC Connector for Quad-Shield Cable	75	Purple	SNSUNI

* RG59 and RG6 ProSNS™ connectors are also available in retail packaging when ordered with [Part Number]-R (see photo below).

