



STARTSEAL

RF CONNECTION PROTECTORS

Star T Technologies announces the arrival of the StartSeal® a range of reusable gel seal enclosures.

StartSeal® a range of RF Re-usable Gel seal Enclosures to weatherproof and protect existing and new RF Antenna Connectors, Coax Splice Inline Connectors and Grounding Transitions. An economical and effect solution to waterproofing and corrosive protection of RF connections on high mast wireless communication towers, wireless cell sites and any RF antenna where the quantity of connections makes it impractical to make use to the old traditional method of taping to achieve protection from the elements.

The hinged design of the StartSeal® series of RF Gel Seal Enclosures make each gel seal enclosure reusable, along with our unique slide and lock mechanism enabling the technician to fit or remove the enclosures without tools making this concept time saving, cost-effective and extremely installer-friendly.

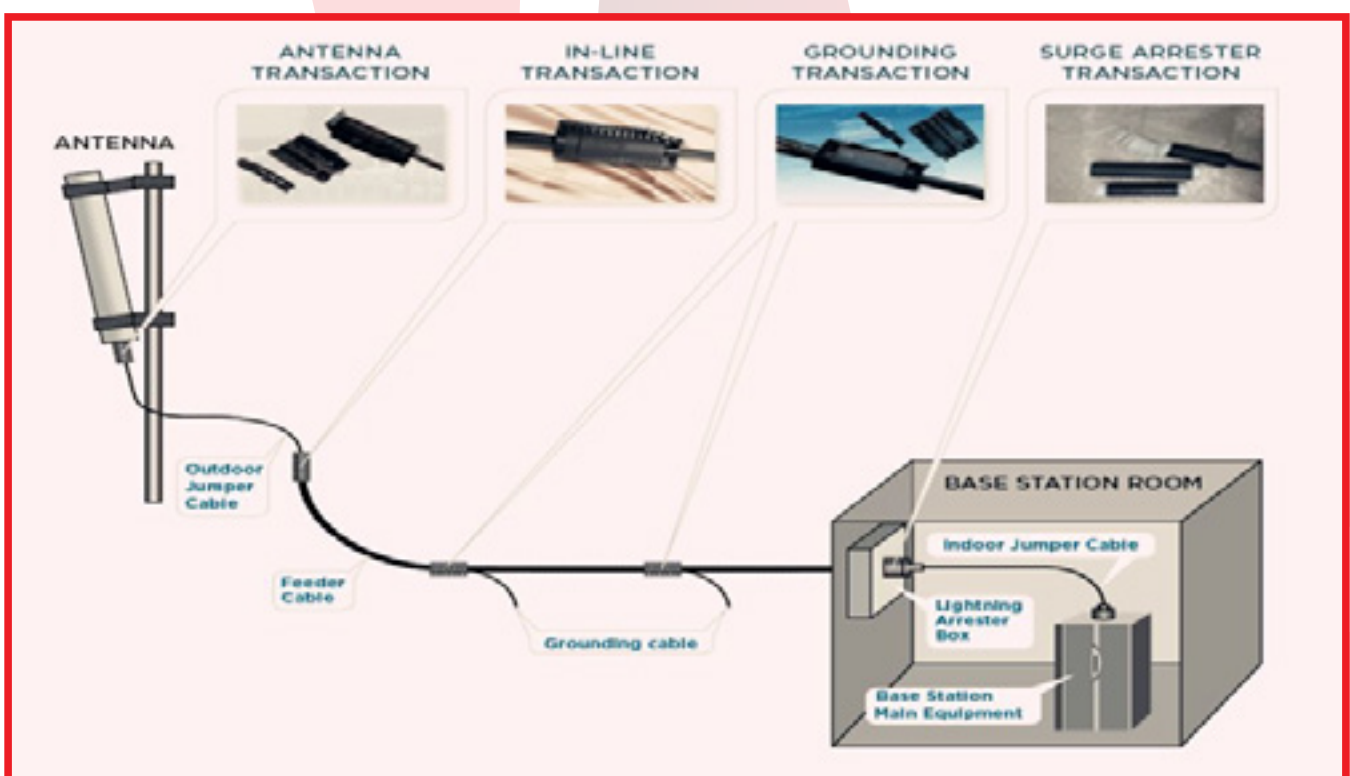
StartSeal® Gel seal enclosures are designed to effectively protect RF connections on both antennas and RRU (Remote Radio Units). Included in the range

we have catered for jumper to feeder cables, in-line connection as well as Gel Seals for ground feeding changeovers.

The specially designed Gel seal compound along with the high quality housing of the StartSeal® Gel Seal allow these units to deliver effective and reliable protection over a wide temperature range. Our seals will withstand temperatures from -40° $<70^{\circ}$ C.

Features include a wraparound design allowing for fitting on existing and new installations without the need to remove loosen nor disconnect the RF connection.

The StartSeal® Gel Seal provides an effective barrier against the ingress of moisture and any other contaminants and has a certified IP 68 rating (IEC 60529).



Antenna & RRU Interfaces

StartSeal® Gel Weatherproofing Enclosure for ½” Jumper to Antenna

Model: SSJA-12AS-9550mini, small version

Description:	½” flexible or Super flexible Jumper to Antenna RF Connection
Application:	Small diameter frame unit suited for use in applications which have high volume of RF connections in a space restricted area
Connection type:	7/16 DIN
Size:	L95mm * W50mm * H41mm
Input:	½” (13-17mm) Jumper Cable
Output:	Antenna bolt
Net Weight:	50g
Colour:	Black



StartSeal® Gel Weatherproofing Enclosure for ½” Jumper to Antenna

Model: SSJA-12A-14867, large version

Description:	½” flexible or Super flexible Jumper to Antenna RF Connection
Application:	Standard size Gel Seal for use in areas where volume of connections are not a concern.
Connection type:	7/16 DIN
Size:	148L * 67W * 41H mm
Input:	½” (13-17mm) Jumper Cable
Output:	Antenna bolt
Net Weight:	118g
Colour:	Black



Prices exclude VAT and are subject to confirmation on order.

Discounts are available subject to quantity. We reserve the right to change our product's prices at any time without further notice.

Antenna & RRU Interfaces

StartSeal® Gel Weatherproofing Enclosure for ½” Jumper to Antenna

Model:SSJA-1043-11946 1/2”

Description:	½” flexible or Super flexible Jumper to Antenna RF Connection
Application:	Standard size Gel Seal for use in areas where volume of connections are not a concern.
Connection type:	4.3 – 10 Connector
Size:	119L * 46W * 33H mm
Input:	½” (13-17mm) Jumper Cable
Output:	Antenna bolt
Net Weight:	55.5g
Colour:	Black



Coaxial Splice In-line Connections

StartSeal® Gel Weatherproofing Enclosure for 1/2” Jumper to 7/8” Feeder

Model: SSJF-1278- 20593

Description:	1/2” to 7/8” Jumper Feeder Conversion connection
Connection type:	7/16 DIN or N Type Connector
Size:	205L * 93W * 52H mm
Input:	Feeder/Jumper Cable
Output:	Jumper/Feeder Cable
Net Weight:	251g
Colour:	Black



StartSeal® Gel Weatherproofing Enclosure for 1/2" Jumper to 1 5/8" Feeder

Model: SSJ-12158- 255112

Description:	1/2" to 1 5/8" Jumper Feeder Conversion
Connection type:	7/16 DIN or N Type Connector
Size:	255L * 112W * 78H mm
Input:	1/2" (13-17mm) Jumper Cable
Output:	1 5/8" Feeder Cable
Net Weight:	375g
Colour:	Black



StartSeal® Gel Weatherproofing Enclosure for 1/2" Jumper to 1 1/4" Feeder

Model:SSJ-12114- 24099

Description:	1/2" to 1 1/4" Jumper Feeder Conversion
Connection type:	7/16 DIN or N Type Connector
Size:	240L * 99W * 66H mm
Input:	1/2" (13-17mm) Jumper Cable
Output:	1 1/4" Feeder Cable
Net Weight:	320g
Colour:	Black



New Generation Weatherproofing Kit

Slim Seal Enclosure Family - Smarter, Slimmer, smaller, lighter, easier.

StartSeal® Slim Seal Enclosures for wireless weatherproofing applications are our new generation compact enclosures that protect RF connections at the antenna and remote radio unit (RRU) wireless sites. Protection of these connections is critical to preventing moisture intrusion, which can lead to signal integrity issues and service disruptions.

As antennas become more densely populated with RF connectors as a result of Multiple In-Multiple-Out (MIMO) antenna requirements or LTE and the

trend towards multi-band multi-service antennas, weatherproofing becomes more challenging and time consuming.

Due to its clamshell-like design, the StartSeal® Slim Seal Enclosure can be installed after the connection is completed at the antenna or RRU. The enclosure can be opened, removed and reinstalled without disconnection of the network, thereby avoiding signal interruptions and replacement costs.

FEATURES	BENEFITS
Compact design	Fits in small or congested areas
User-friendliness	Installs in 3 seconds
Easy to install/remove	Intuitive install; minimal training needed
Re-enterable	Allows for PIM/sweep testing
Reusable	No extra supplies needed to re-seal
Tool-less	No additional installation costs and steps

StartSeal® Slim Seal Enclosures can also be installed inverted when connectors are located at the top of the antenna and still maintain a tight seal around the connection point.

These enclosures are re-usable and tool-less, making it a time-saving, cost-effective, easy-to-use solution

for the wireless industry, especially where PIM/sweep testing is concerned. They are installed quickly and can fit in small spaces for fast installation.

StartSeal® Slim Seal Enclosures are available in different sizes to accommodate most types and sizes of RF connectors with nominal half-inch coaxial cable.

Performance		Testing Methods
Environmental protection	IP68	Installs in 3 seconds
Operating temperature	-40 to 70°	
RoHS		2011/65/EU

StartSeal Supper Slimline Part Number SSJA-12A-15249-L

Our supper slimline GelSeal is designed for those real crowded spaces where multiple RF connections make it impossible to fit our standard body GelSeal.

Sizes:	Length: 152mm / Width: 49mm / Height: 40mm
Materials:	UV Resistant Modified Plastic
Coax Sizes Supported:	1/2" & 1/2" Super Flexible Jumper Cable to Antenna Connections
Output:	Antenna bolt
Connectors:	7/16 DIN
Colour:	Black



Part Number SSJA-12A-9550-S

Sizes:	Length: 95mm / Width: 50mm / Height: 40mm
Materials:	UV Resistant Modified Plastic
Coax Sizes Supported:	1/2" & 1/2" Super Flexible Jumper Cable to Antenna Connections
Output:	Antenna bolt
Connectors:	7/16 DIN
Colour:	Black or Blue, custom colors available upon request



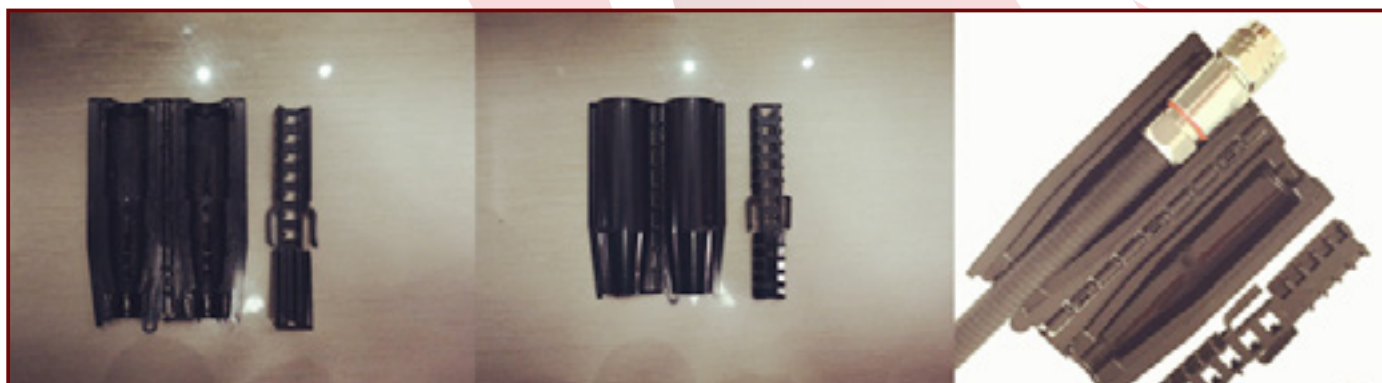
Part Number SSJA-12A-12046-MINI

Sizes:	Length: 120mm / Width: 46mm / Height: 31 mm
Materials:	UV Resistant Modified Plastic
Coax Sizes Supported:	1/2" & 1/2" Super Flexible Jumper Cable to Antenna Connections
Connectors:	Mini-DIN 4.3-10 or 4.1-9.5
Colour:	Black or Blue, custom colors available upon request



Part Number SSJA-12A-12046-N

Sizes:	Length: 120mm / Width: 46mm / Height: 31 mm
Materials:	UV Resistant Modified Plastic
Coax Sizes Supported:	1/2" Super Flexible Jumper Cable to Antenna / RRU Connections
Connectors:	N Type
Colour:	Black or Blue, custom colors available upon request



P/N	Cable Spec.	Typical Connector Application	Cable Diameter (Range)	Pcs/CTN
SSJA-12A-15249-L	1/2" & 1/2" S	7/16 DIN	13-17mm	60 PCS
SSJA-12A-9550-S	1/2" & 1/2" S	7/16 DIN	13-17mm	100 PCS
SSJA-12A-12046-MINI	1/2" & 1/2" S	4.3-10/4.1-9.5 Mini-DIN	13-17mm	100 PCS
SSJA-12A-N	1/2" S	N Type	13-13.5mm	100 PCS

Important Notice

All statements, technical information, and recommendations related to StartSeal's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in StatSeal's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of StartSeal.

E&O.A.

NOTES:



A series of 20 horizontal lines for writing, overlaid on a decorative background of overlapping, semi-transparent pink and red curved shapes.





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