“F” Series Connectors

"F" connectors allow a coaxial cable to maintain a 75-ohm impedance. They are used with 59, 6, 7 and 11 cable series. Use of "F" connectors helps avoid impedance problems with interfaces and splices.

- 59 and 6 "F" connectors are available in a convenient feed-through design.
- 7 and 11 connectors have an internal pin contact that mate to female ports.
- The Corning Gilbert patented compression connectors combine ease of installation with superior performance including 360 degree contact to the cable, excellent RF shielding, and a complete seal to the cable jacket that locks out moisture.
- The patented free spinning sealed nut makes installation faster and more reliable.
- Our family of universal connectors is designed to accept 60% through Quad shield cables. They maintain good electrical and mechanical properties.

Compression “F” Connectors

UltraEase™ Series 59 and 6

Part Number	Color Code	Cable Type	Braid Coverage
GF-UE-59	Black	Series 59	60% to Tri Shield
GF-UE-59Q	Green	Series 59	Quad Shield
GF-UE-6	Gold	Series 6	60% to Tri Shield
GF-UE-6Q	Silver	Series 6	Quad Shield

Patent No: 6790081

UltraRange™ Series 59 and 6

Part Number	Cable Type	Braid Coverage
GF-UR-59	Series 59	60% to Quad Shield
GF-UR-6	Series 6	60% to Quad Shield

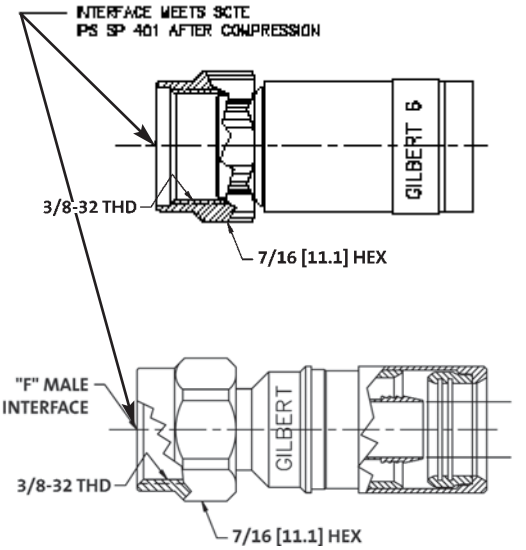
Patent Pending

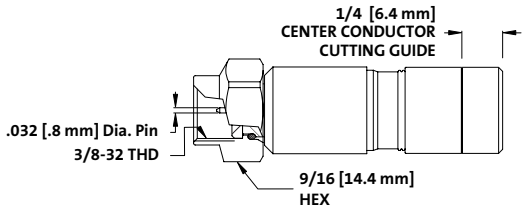
UltraSeal® Series 7 and 11

Part Number	Cable Type	Braid Coverage
GAF-UST-7	Series 7	60% to Tri Shield
GAF-UST-7Q	Series 7 Quad	Quad Shield
GAF-UST-11	Series 11	60% to Tri Shield
GAF-UST-11Q	Series 11 Quad	Quad Shield

Note: Upon insertion of the cable, the connector’s pin pushes forward indicating proper installation.

Patent No: 5975951





Recommended Tools

Connector Type	Prep. Tool	Compression Tool
UltraEase 6 & 59	G-CPT-6590	G-CAT-UNIVERSAL-FX, G-CAT-AS, G-UE-CTS
UltraRange 6 & 59	G-CPT-6590	G-CAT-UNIVERSAL-FX, G-CAT-AS
UltraSeal 7 & 11	G-CPT-1100	G-CAT-AS

See Page 65-66 for additional tool information

Accessories

Part Number	Description	See Page
G-SR-1/2	Seal Ring for standard 1/2” port*	49
G-S-200	Security Sleeve Tool for 6 & 59 Series	48
NS-2412-13	Steel Security Sleeve for 6 & 59 Series	48

Cable Preparation

(1) Series 59 and 6 cables
(2) Series 7 and 11 cables

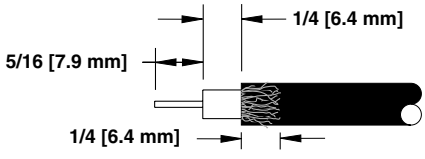


Figure (1)

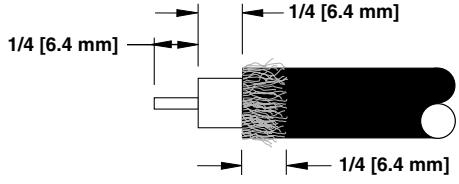
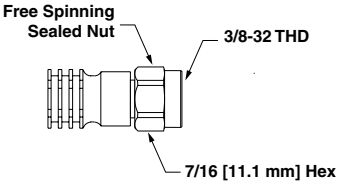
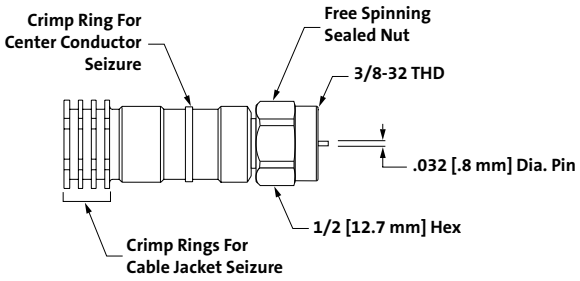


Figure (2)



Series 56 and 6

Part Number	Cable Type	Crimp Size
GF-360-59	Series 59	.360 Hex
GF-360-59Q	Series 59 Quad	.360 Hex
GF-360-6	Series 6	.360 Hex
GF-360-6Q	Series 6 Quad	.360 Hex



Series 7 and 11

Part Number	Cable Type	Crimp Size
GAF-360-7	Series 7	.410 Hex
GAF-360-7Q	Series 7 Quad	.410 Hex
GAF-360-11	Series 11	.475 Hex
GAF-360-11Q	Series 11 Quad	.475 Hex

Note: The 7 and 11 series connectors include an integral pin

CABLE PREP®
G-CRT-USA

Accessories

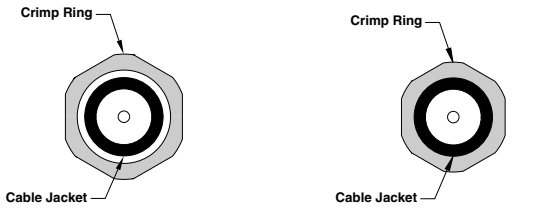
Part Number	Description	See Page
G-SR-1/2	Seal Ring for standard 1/2" port	49
G-S-200	Security Sleeve Tool	48
NS-2412-13	Steel Security Sleeve	48

Recommended Tools

Connector Type	Prep. Tool	Crimp Tool (HEX Cavity)
Series 6 & 59	G-CPT-6590	G-CRT-USA (.360)
Series 7	G-CPT-1100	G-CRT-59611 (.324 / .410)
Series 11	G-CPT-1100	G-CRT-910 (.360 / .475)

See page 65-66 for additional tool information

Before Crimping *After Crimping*



Inside diameter of crimp ring stays round after crimping to provide a seal to the cable jacket

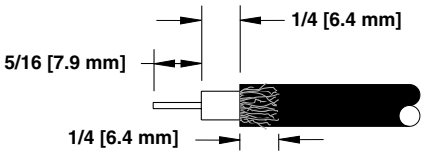


Figure (1)

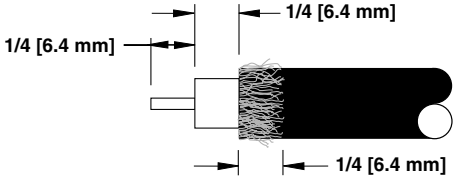


Figure (2)

Cable Preparation

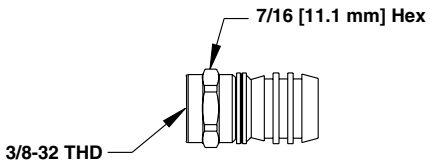
(1) Series 59 and 6 cables
(2) Series 7 and 11 cables

This product is also available for 320 QR please see page 53

USA “F” Connector

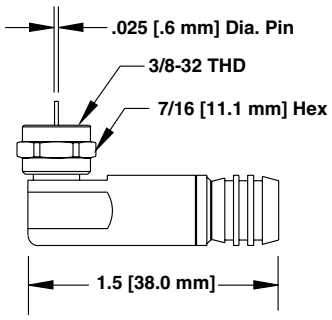
USA “F” Male

Part Number	Cable Type	Crimp Size
GF-59-AHS/USA	60% - Quad	.360 Hex
GF-6-AHS/USA	60% - Quad	.360 Hex



USA Right Angle “F” Male

Part Number	Cable Type	Crimp Size
GF-59-RA-AHS/USA	60% - Quad	.360 Hex
GF-6-RA-AHS/USA	60% - Quad	.360 Hex



Recommended Tools

Connector Type	Prep. Tool	Crimp Tool (HEX Cavity)
Series 59	G-CPT-6590	G-CRT-USA (.360)
Series 6	G-CPT-6590	G-CRT-USA (.360)

See page 65 for additional tool information

CABLE PREP
G-CRT-USA

Cable Preparation

(1) Series 59 and 6 cables

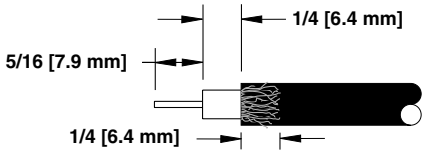
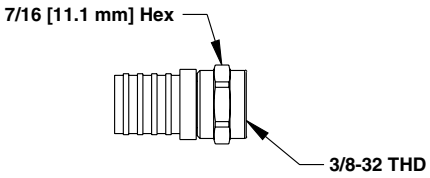


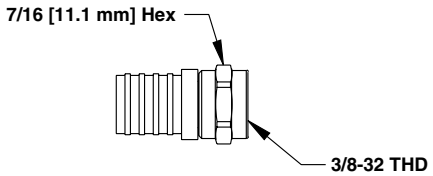
Figure (1)



“F” Male Connector

Part Number	Crimp Size	Braid Coverage
GF-59-AHS/290	.324 HEX	40% - 60%
GF-59-AHS/312	.324 HEX	60% - 90%
GF-59-AHS/322	.324 HEX	60% - 90%
GF-59-AHS/342	.324 HEX	Quad 60 / 40%
GF-59-AHS/357	.384 HEX	Quad High Braid %
GF-59-AHP/284	.324 HEX	Low Braid Plenum
GF-59-AHP/312	.324 HEX	High Braid Plenum

See page 65-66 for tool information



“F” Male Connector

Part Number	Crimp Size	Braid Coverage
GF-6-AHS/322	.324 HEX	40% - 60%
GF-6-AHS/342	.324 HEX	Quad 60 / 40%
GF-6-AHS/357	.384 HEX	Quad High Braid %
GF-6-AHP/312	.324 HEX	Low Braid Plenum
GF-6-AHP/328	.384 HEX	High Braid Plenum

See page 65-66 for tool information

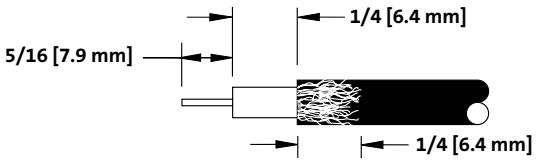


Figure (1)

Cable Preparation

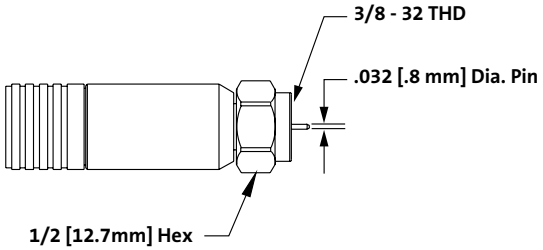
(1) Series 59 and 6 cables AHS Connector

AHS “F” Series 7 and 11

Series 7 Integral Pin

Part Number	Crimp Size	Braid Coverage
GAF-236/051-AHS/368	.384 Hex	Single Braid
GAF-236/051-AHS/398	.475 Hex	Quad

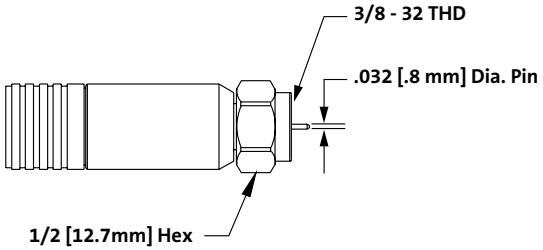
Connectors with “GAF” in the part number include an integral pin



Series 11 Integral Pin

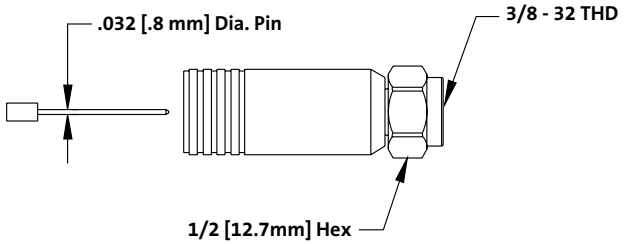
Part Number	Crimp Size	Braid Coverage
GAF-11-AHS/460	.475 Hex	Up to 90%
GAF-11-AHS/480	.475 Hex	Quad
GAF-11-AHP/450	.475 Hex	Plenum

Connectors with “GAF” in the part number include an integral pin



Series 11 Crimp-On Pin

Part Number	Crimp Size	Braid Coverage
GF-11-AHS/460	.100 & .475 Hex	Up to 90%
GF-11-AHS/480	.100 & .475 Hex	Quad
GF-11-AHP/450	.100 & .475 Hex	Plenum



Cable Preparation

(1) Integral Pin Series 7 and 11 Cables
(2) Series 11 Crimp-On Pin Connector

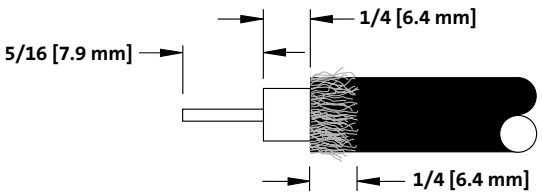


Figure (1)

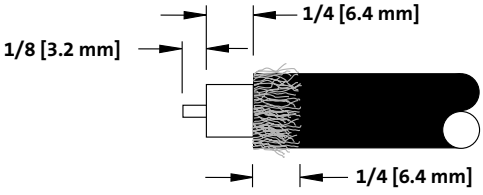
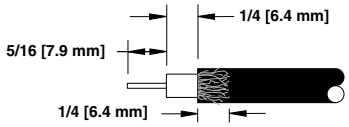


Figure (2)

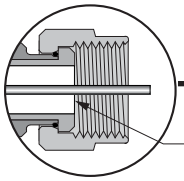
Series 59 and 6 Installs for UltraEase™, UltraRange™, 360, and USA

Cable Preparation



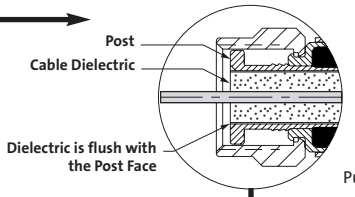
Prepare cable with an appropriate tool to dimensions shown. Fold exposed braid back over jacket. Leave foil attached to dielectric. (Don't Score Center Conductor).
For Quad Shield Cables: Fold outer braid back over jacket, remove outer foil, fold inner braid back over jacket.

UltraRange™ Connector Installation



Push connector onto cable until dielectric is flush with the support post face.

UltraEase™ Connector Installation



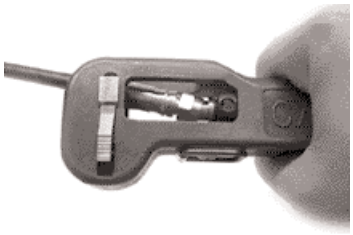
Push connector onto cable until dielectric is flush with the support post face.

Connector Activation

UltraEase™

Insert connector/cable into the compression tool. Compress the connector until positive stop is reached.

UltraRange™



Insert connector/cable into the compression tool. Compress the connector until positive stop is reached.

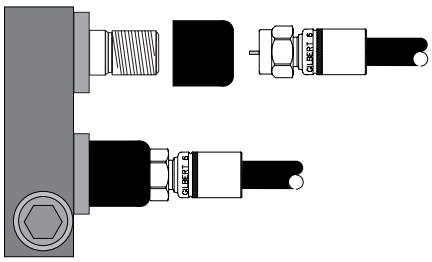
360

Place connector into the jaws of the .360 hex crimp tool. Make sure the hex of the crimp ring is aligned with the hex of the jaws of the crimp tool. Align the end of the connector crimp ring flush with the edge of the crimp tool jaws. Crimp the connector until a positive stop is reached.

USA

Place connector into the jaws of the .360 hex crimp tool. Align the end of the connector crimp ring flush with the edge of the crimp tool jaws. Crimp the connector until a positive stop is reached.

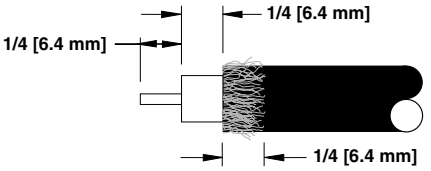
Outdoor Applications



- Push seal ring (G-SR-1/2) onto outdoor port
- Install connector finger tight
- Using a 7/16" wrench, tighten to system specifications

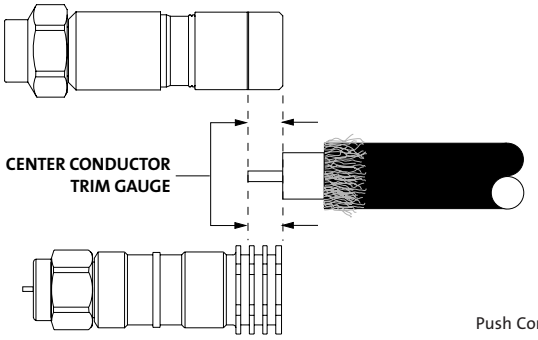
Series 7 and 11 Installs for UltraSeal® and 360

Cable Preparation



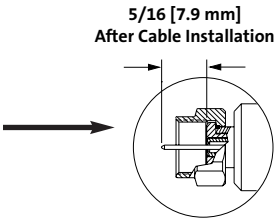
Prepare cable with an appropriate tool to dimensions shown. Fold exposed braid back over jacket. Leave foil attached to dielectric. (Do not Score Center Conductor).
For Quad Shield Cables: Fold outer braid back over jacket, remove outer foil, fold inner braid back over jacket.

Conductor Trim Verification



Check for correct center conductor length.

Cable Insertion



Push Connector onto cable.

NOTE: The UltraSeal connector pin moves outward as cable is inserted.

UltraSeal®

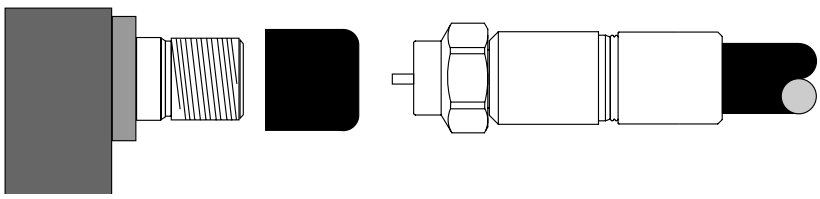
Insert connector/cable into the compression tool. Compress the connector until positive stop is reached.

Place connector into the jaws of the hex crimp tool. Make sure the hex of the crimp ring is aligned with the hex of the jaws of the crimp tool. Align the end of the connector crimp ring flush with the edge of the crimp tool jaws. Crimp the connector until a positive stop is reached.

360

Align the pin crimp area of the connector in the hex crimp tool. Crimp the connector until a stop is reached. (*See product page for correct hex crimp size*). Pull on cable to verify seizure of the cable center conductor.

Outdoor Applications



- Push seal ring (G-SR-1/2) onto outdoor port
- Install Connector finger tight
- Using a 1/2" wrench, tighten to system specifications