



DROP PRODUCTS

product catalog

TRAPS & FILTERS

HARDLINE CONNECTORS  
& ADAPTERS

2008



## Worldwide Leader.

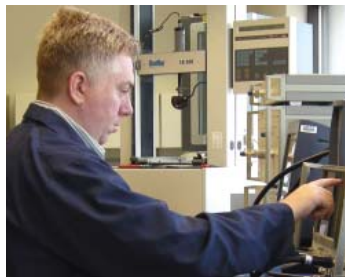


PPC is the worldwide leader in connector technology for the broadcast, wireless and telecommunications industries.

From design breakthroughs in hardline connector construction to the first locking HDMI® Jumper, PPC has lead the way with innovative industry solutions.

Add extensive expert training and an unparalleled commitment to service and the result is a worldwide industry leader with an indisputable value story.

## Laboratory



PPC subjects each product to the industry's most thorough battery of quality checks and simulations during each stage of the process - from prototype to production. Only after a product has endured environmental exposure, and mechanical, electrical and RF testing – and it has met PPC's strict quality requirements - will it be made available to its customers. A full staff of lab technicians is equipped to comprehensively test all major issues affecting services provided by the telecommunications industry such as:

- Environmental Aging
- Temperature Cycling
- Red Dye Testing
- RF Shielding
- Powering Issues
- Pull Strength
- Return and Insertion Loss
- Power Surge Testing

## Training

As the worldwide leader in connector technology, it is our responsibility to lead the industry in first-class knowledge sharing. We take that responsibility seriously.



PPC has trained over 100,000 technicians and supervisors in disciplines such as: proper cable preparation, craft-friendly installation techniques and trouble call prevention.

# Innovation

PPC was recognized by the Wall Street Journal as an innovator in our industry. The Industry Impact column measures how influential a company's patent portfolio is on the development of technologies compared to the rest of the industry. PPC (listed as John Mezzalingua Associates) impact is literally off the charts.



## Ordering

PPC's Quality and service commitments begin and end with you, the customer.

From innovative product solutions to world-class delivery lead times, we stand by our commitments including:

- Top 65 items guaranteed to ship within 24 hours of your order
- 24/7 Disaster line
- VMI/EDI capabilities



### **You can order any PPC product from the office nearest you:**

Worldwide Headquarters  
6176 East Molloy road  
East Syracuse, NY 13057-0278

TEL: 315-431-7200  
ALT: 800-800-6652  
FAX: 315-431-7201  
EMAIL: [customerservice@ppc-online.com](mailto:customerservice@ppc-online.com)

European Headquarters  
Vaerkstedsvej 14  
DK-4720, Praesto, Denmark

TEL: +45-55-99-17-22  
FAX: +45-55-99-27-22  
EMAIL: [ppceurope@ppc-online.com](mailto:ppceurope@ppc-online.com)



## Customer Service and Technical Support

PPC offers a direct, hands-on approach to Sales and Customer Service. Our goal is to provide our customers with the fastest, most efficient and cost effective solutions to improve and grow their business.



Recognizing time to market delivery as the single most important factor in a successful venture, PPC's sales and support team provides the conduit to quickly establish the scope of the demand. Through the execution of design, manufacturing and delivery of products, our team is equipped with the tools that allow you to focus on your customers.

Using SAP, the world leader in ERP (Enterprise Resource Planning) systems, PPC seamlessly takes concept to design to manufacturing and manufacturing to delivery. With each process integrated in SAP, PPC is able to measure project milestones with ease and effectiveness,

ensuring customer expectations are met, or more likely exceeded.

PPC's Customer Service Department is available from 8:00 am to 6:30 pm EST Monday through Friday. With the proximity to every department in the corporate office, PPC's Customer Service Reps are unequalled in their ability to find the right person, the right information and the right answer for our customers' every request.

### Customer Service Contact Information:

Worldwide Headquarters  
6176 East Molloy road  
East Syracuse, NY 13057-0278

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FAX: 315-431-7201  
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FAX: +45-55-99-27-22  
EMAIL: [ppceurope@ppc-online.com](mailto:ppceurope@ppc-online.com)

# Product Table of Contents

## Drop Connectors

Introduction.....	A1-2
<b>Aquatight® EX® Universal Drop Connectors</b>	
for series 6 & 59 cable .....	A3-4
for series 7 & 11 cable .....	A5-6
for series 320QR cable .....	A7-8
<b>EX® Universal Drop Connectors</b>	
for series 6, 59, Plenum & Headend cable ..	A9-10
for series 7 & 11 cable .....	A11-12
for series 320QR cable .....	A13-14
BNC for 6, 59 & headend cable .....	A15-16
<b>CMP® Drop Connectors</b>	
for series 6 & 59 cable .....	A17-18
BNC and RCA for series 6 & 59 cable .....	A19-20
for series Mini cable .....	A21-24
<b>Adapters</b>	
F-Male to F-Female .....	A25
BNC to F .....	A26
<b>Accessories</b>	
Locking & Basic Terminators .....	A27-28
AquaTight® Terminators .....	A29-30
SimplEX® Adapters .....	A31
Custom Coax Jumpers .....	A32
Ground Blocks .....	A33
Female Splice Adapters .....	A34
Wall Plates .....	A35
Port Seals .....	A36
Security Shields .....	A37
<b>Tools</b>	
Compression Tools .....	A38
Drop Cable Preparation Tools .....	A39
Connector/Compression Tool Matrix .....	A40

## Hardline Connectors & Adapters

Introduction .....	B1-2
Mechanical Specifications .....	B3
Cable Preparation .....	B4-5
<b>2-Piece Hardline Connectors</b>	
Introduction .....	B6-7
Pin Connectors .....	B8
Splice Connectors .....	B8
Feed-Thru Connectors .....	B8
Female (BAFF) Connectors .....	B9
F-male (FM) Connectors .....	B9
Extension Connectors .....	B10
Cable Terminators .....	B10
<b>3-Piece Hardline Connectors</b>	
Introduction .....	B11-12
Pin Connectors .....	B13
Splice Connectors .....	B13
Female (BAFF) Connectors .....	B13
F-male (FM) Connectors .....	B14
Extension Connectors .....	B14
Cable Terminators .....	B14
<b>CP Series 90° &amp; 180° Adapters</b>	
90° & 180° Adapters .....	B15
90° & 180° Swivel Adapters .....	B16
<b>NX Series 90° &amp; 180° Adapters</b>	
90° & 180° Adapters .....	B17-18
90° & 180° Swivel Adapters .....	B18-19
<b>KS Adapters</b> .....	B20-22
<b>Hardline Jumpers</b> .....	B23
<b>Preparation Tools</b> .....	B24-26

## Traps & Filters

Introduction.....	C1-2
Pre-assembled Solution .....	C3
<b>Basic Tier</b>	
QBR - Band Reject Tiering Filter .....	C4
CBR - Band Reject Tiering Filter .....	C5
UBR - Band Reject Tiering Filter .....	C6
<b>Data Only</b>	
SBS - Band Reject Tiering Filter .....	C7
SNBR - Wide Band Reject Filter .....	C8
CBR - Band Reject Tiering Filter .....	C9
<b>Line Conditioning</b>	
FPA - Forward Path Attenuator .....	C10
EQ - Equalizers .....	C11
CS - Cable Simulator .....	C12
ATP - Ultra Precision Attenuator .....	C13
SSA - Step Attenuator .....	C14
SHP - High Pass Filter .....	C15
<b>Installation Tools</b> .....	C16

# Drop products





## Innovative products for your evolving network

PPC provides innovative solutions to the industry's biggest problems and holds more patents in connector technology than any company in the world. PPC's solution-based approach has resulted in drop components that reduce craft errors, lower operational costs and ensure the best possible service to the subscriber.

PPC's line of drop components includes universal F-connectors, coax jumper assemblies, F-81s, security devices, headend connector components, groundblocks and terminators.

### EX® Universal Drop Connectors



Every day installers are faced with identifying old unmarked cable and having to guess which connector is correct. The wrong connector choice degrades the plant, leading to noise and moisture ingress that ultimately results in a service call. The PPC EX® Universal Drop Connector takes the guesswork out of matching connector to cable—and reduces service calls.

### AquaTight® Universal Drop Connectors



Moisture can kill a network. In real life, the use of port seals is often intermittent, and using the correct port seal is a tall order. Improper use or lack of port seals leaves connectors susceptible to the elements. The PPC AquaTight® Universal Drop Connector guarantees the use of the proper port seal every time, keeping the moisture out.



## AquaTight® EX® Universal Compression Connectors Series 6 & 59

Moisture can kill a network. In real life, the use of port seals is often intermittent, and using the correct port seal is a tall order. Improper use or lack of port seals leaves connectors susceptible to the elements. The PPC AquaTight Universal Drop Connector guarantees the use of the proper port seal every time, keeping the moisture out.

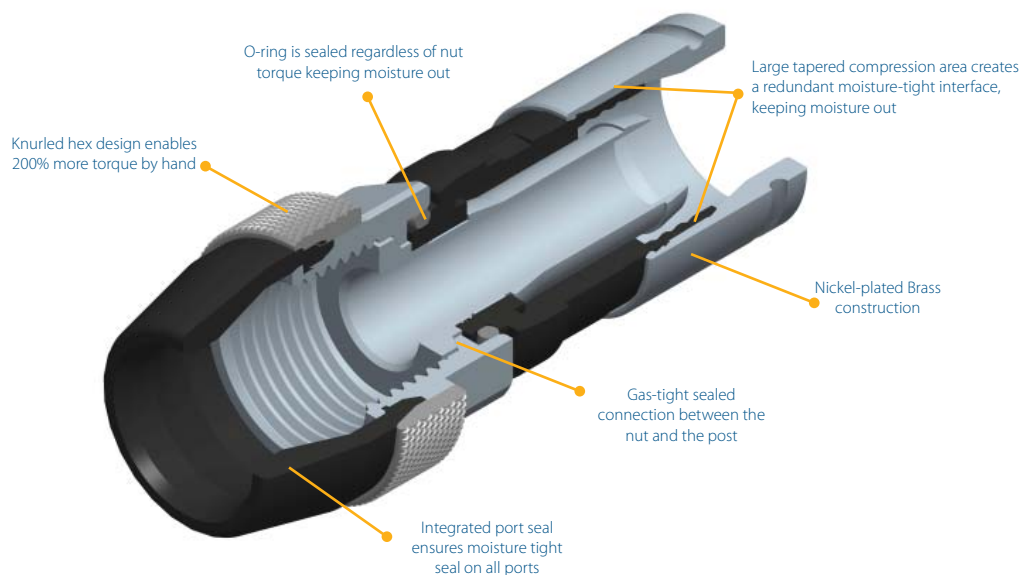


### Product Specifications

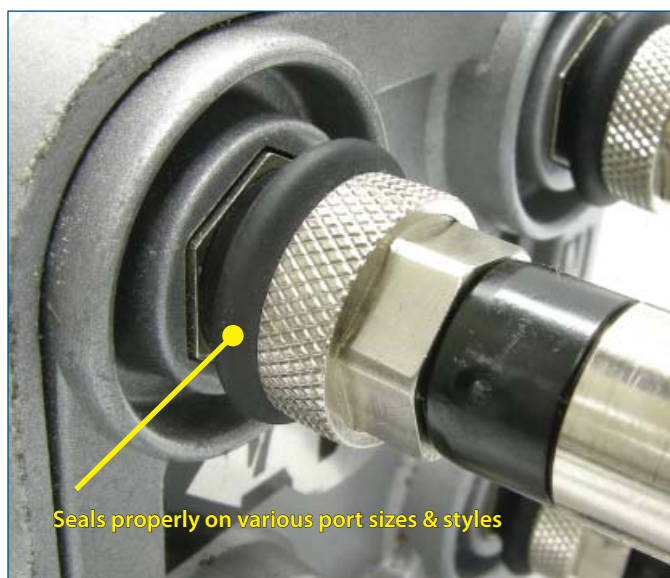
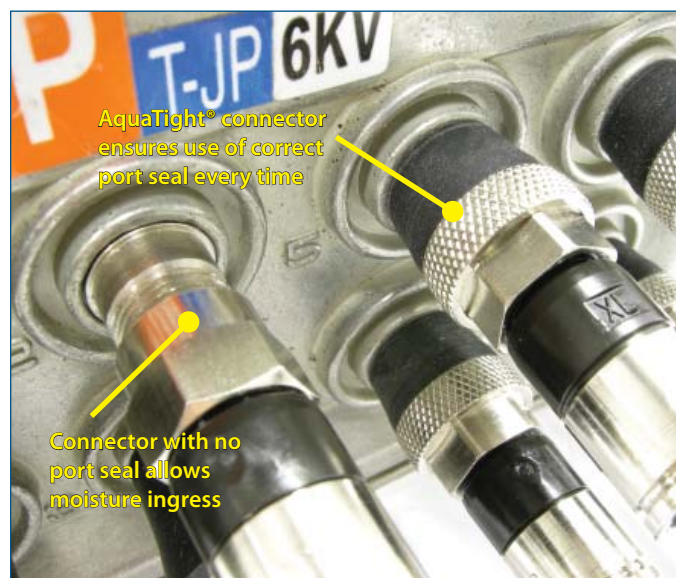
Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Insertion Loss	Less than .10 dB to 3 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	45 lbs (20.41 kg) minimum

*Meets or Exceeds all SCTE Specifications*

## Features & Benefits



## Application



AquaTight® EX® Universal compression connectors ensure proper port sealing every time

## AquaTight® EX® Compression Connectors: Series 6 & 59

EX6WS



EX6XLWS



EX59WS



EX59XLWS



### Part Numbers

EX6WS	AquaTight® EX® connector, integrated port seal, series 6 cable
EX6XLWS	AquaTight® EX® connector, integrated port seal, extended body, series 6 cable
EX59WS	AquaTight® EX® connector, integrated port seal, series 59 cable
EX59XLWS	AquaTight® EX® connector, integrated port seal, extended body, series 59 cable

VT200



VT300



LDT596-250



TW307 AH



### Preparation & Installation Tools

Compression Tool	CATAS, VT200 (for use w/ XL series)		
	CAT-AS-EX, VT300 (for use w/ EX series)		
¼" – ¼" universal drop cable preparation tool	LDT596-250	DDT59611	
7/16" snap torque wrench	TW207	TW307	TW307 AH

Please see complete tool list on pages A38-A40

## AquaTight® EX® Compression Connectors Series 7 & 11

PPC's revolutionary AquaTight® integrated port seal technology has now been expanded across the entire EX® Series product line! This design concept combines an EX® compression connector with an integrated port seal and guarantees the use of a port seal every time to eliminate moisture migration problems.

The unique patented design of the EX® body achieves true universality on 60% through Quad Shield, PE, and PVC jacket.

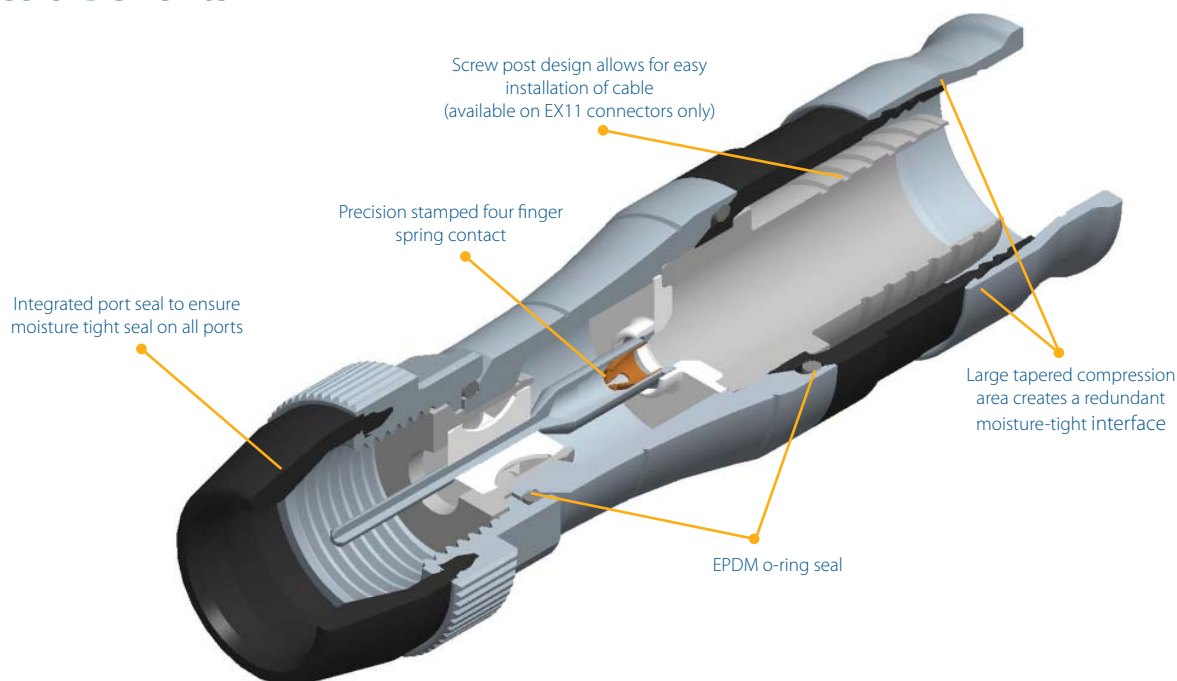


### Specifications

Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Insertion Loss	Less than .10 dB to 3 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	45 lbs (20.41 kg) minimum

*Meets or Exceeds all SCTE Specifications*

## Features & Benefits





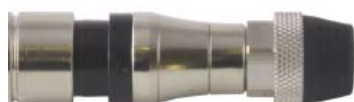
## Application



AquaTight® EX® Universal compression connectors ensure proper port sealing every time. Right angle connectors prevent improper cable bending and tap ports from breaking in smaller pedestals.

## AquaTight® EX® Compression Connectors: Series 7 & 11

EX7N716WS



EX11N716WS



EX11RAFMWS



### Part Numbers

EX7N716WS	AquaTight® EX® connector, integrated port seal, 7/16" hex nut, series 7 cable
EX11N716WS	AquaTight® EX® connector, integrated port seal, 7/16" hex nut, series 11 cable
EX11RAFMWS	AquaTight® EX® connector, integrated port seal, right angle, 9/16" hex nut, series 11 cable

VT200



VT300



DDT59611



TW307 AH



### Preparation & Installation Tools

Compression Tool	VT200	VT300	CATAS	CAT-AS-EX
1/4" – 1/4" universal drop cable preparation tool	UDT596711		DDT59611	
7/16" snap torque wrench	TW207	TW309	TW307 AH	

Please see complete tool list on pages A38-A40



## AquaTight® EX® Universal Compression Connectors Series 320 Hardline Cable

The EX320QR and EX320RAFM hardline compression connectors attach with the ease of a drop connector for faster job completion. These connectors are versatile, durable and designed to deliver signals with minimal loss and greatest shielding effectiveness in the industry.

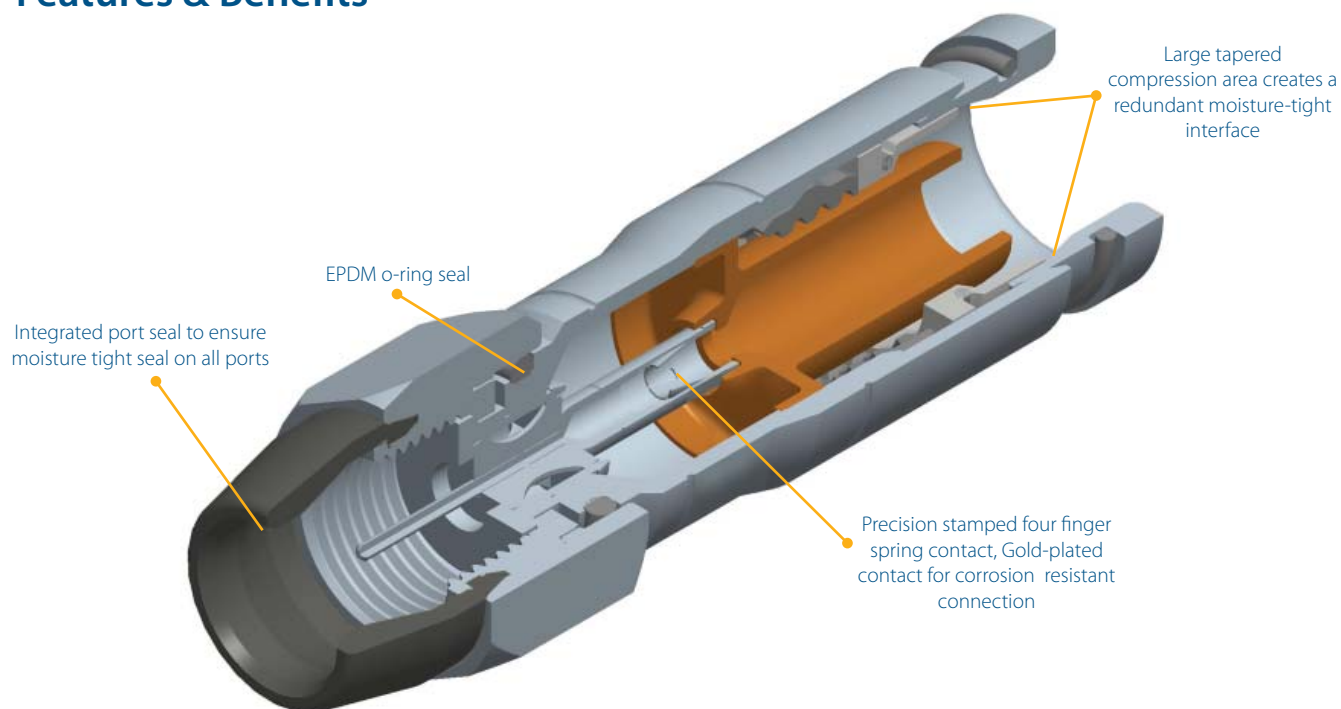
### Specifications

Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -20 dB to 1 GHz
Insertion Loss	Less than .10 dB to 1.2 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	175 lbs (20.41 kg) minimum

*Meets or Exceeds all SCTE Specifications*



## Features & Benefits



## Application



AquaTight® EX® Universal compression connectors ensure proper port sealing every time  
Right angle connectors prevent improper cable bending and tap ports from breaking in smaller pedestals

## AquaTight® EX Compression Connectors: Series 320QR

EX320QRWS



EX320RAFMWS



### Part Numbers

EX320QRWS	AquaTight® EX® connector, integrated port seal, 9/16" hex nut, series 320QR cable
EX320RAFMWS	AquaTight® EX® connector, integrated port seal, right angle, 9/16" hex nut, series 320QR cable

VT200



VT300



CST-320/7CQRF



MWSS400



TW309



### Preparation & Installation Tools

Compression Tool	VT200	VT300	CATAS	CAT-AS-EX
Coring Tool	CST-320/7CQRF	SCT-F320QR		
Messenger Web Slitter/Shaver	MWSS400			
9/16" snap torque wrench	TW309			

Please see complete tool list on pages A38-A40

## EX® Universal Compression Connectors Series 59, 6, Plenum and Headend Cable

Installers are faced with the problem of identifying old unmarked 60% through Quad Shield Series 6 cable, and having to guess which connector is the best match. This results in unnecessary service calls due to the use of the wrong connector/cable match.

The unique patented design of the EX® body achieves true universality on 60% through Quad Shield for PE, and PVC jackets.

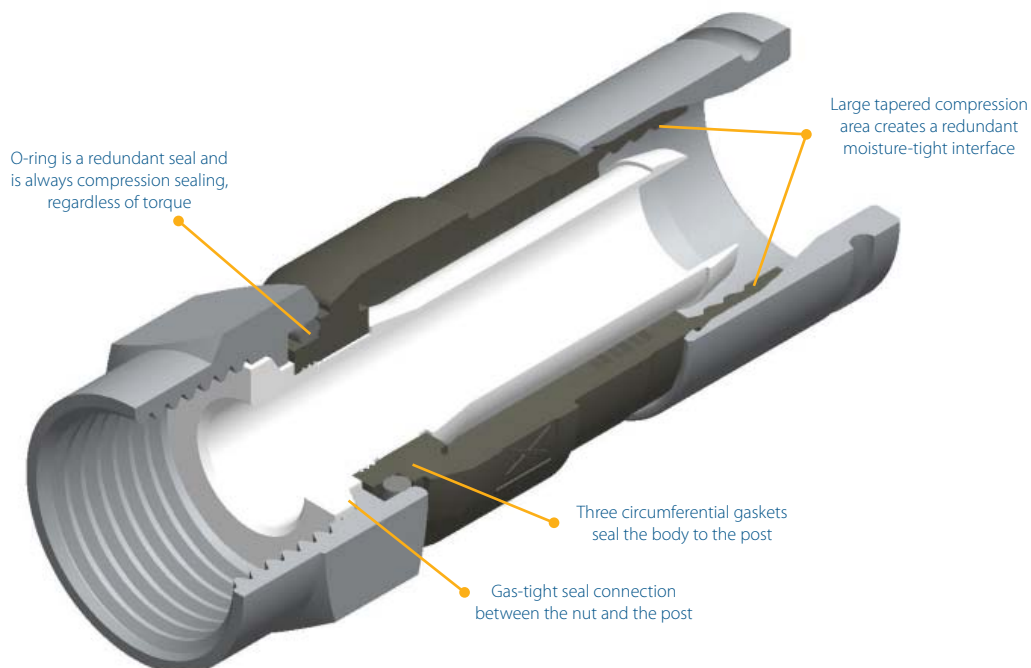


### Specifications

Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Insertion Loss	Less than .10 dB to 3 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40o F to + 140o F (-40o C to 60o C)
Cable Retention	45 lbs (20.41 kg) minimum

*Meets or Exceeds all SCTE Specifications*

### Features



## Application



EX® Universal compression connectors used in combination with port seals ensure proper port sealing every time

## EX® Series Universal Compression Connectors: Series 6, 59, Plenum & Headend



### Part Numbers

EX6	EX® Universal compression connector, series 6 cable
EX6XL	EX® Universal compression connector, extended body, series 6 cable
EX59	EX® Universal compression connector, series 59 cable
EX59XL	EX® Universal compression connector, extended body, series 59 cable
EX59HE	EX® Universal compression connector, CommScope & Times Fiber Headend cable
EX59XLHE	EX® Universal compression connector, extended body, CommScope & Times Fiber Headend cable
EX6P	EX® Universal compression connector, Plenum cable
EX6XLP	EX® Universal compression connector, extended body, Plenum cable



### Preparation & Installation Tools

Compression Tool	CATAS, VT200 (for use w/ XL series)		
	CAT-AS-EX, VT300 (for use w/ EX series)		
¼" – ¼" universal drop cable preparation tool	LDT596-250	DDT59611	
7/16" snap torque wrench	TW207	TW307	TW307 AH

## EX<sup>®</sup> Universal Compression Connectors Series 7 & 11 Series Cable

Installers are faced with the problem of identifying old unmarked 60% through Quad Shield Series 7 & 11 cable, and having to guess which connector is the best match. This results in unnecessary service calls due to the use of the wrong connector/cable match.

The unique patented design of the EX<sup>®</sup> body achieves true universality on 60% through Quad Shield, PE, and PVC jacket.

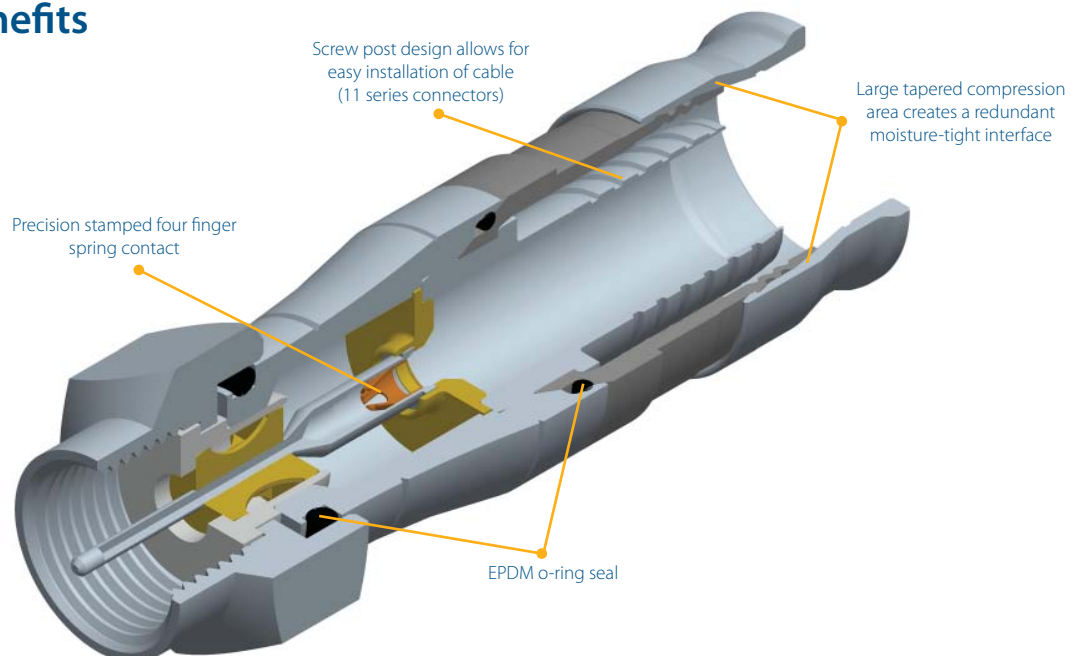


### Specifications

Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Insertion Loss	Less than .10 dB to 3 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	45 lbs (20.41 kg) minimum

*Meets or Exceeds all SCTE Specifications*

## Features & Benefits





## Application



EX® Universal compression connectors used in combination with port seals ensure proper port sealing every time  
Right angle connectors prevent improper cable bending and tap ports from breaking in smaller pedestals

## EX® Series Universal Compression Connectors: Series 7 & 11



### Part Numbers

EX7	EX® Universal compression connector, 9/16" hex nut, series 7 cable
EX7N716	EX® Universal compression connector, 7/16" hex nut, series 7 cable
EX11	EX® Universal compression connector, 9/16" hex nut, series 11 cable
EX11N716	EX® Universal compression connector, 7/16" hex nut, series 11 cable
EX11RAFM	EX® Universal compression connector, right angle, 9/16" hex nut, series 11 cable



### Preparation & Installation Tools

Compression Tool	VT200	VT300	CATAS	CAT-AS-EX
1/4" – 1/4" universal drop cable preparation tool	LDT596-250		DDT59611	
9/16" snap torque wrench	TW309			
7/16" snap torque wrench	TW207	TW309	TW307 AH	

## EX<sup>®</sup> Universal Compression Connectors

### Series 320 hardline cable

The EX320QR and EX320RAFM hardline compression connectors attach with the ease of a drop connector for faster job completion. These connectors are versatile, durable and designed to deliver the lowest loss levels and greatest shielding effectiveness in the industry.

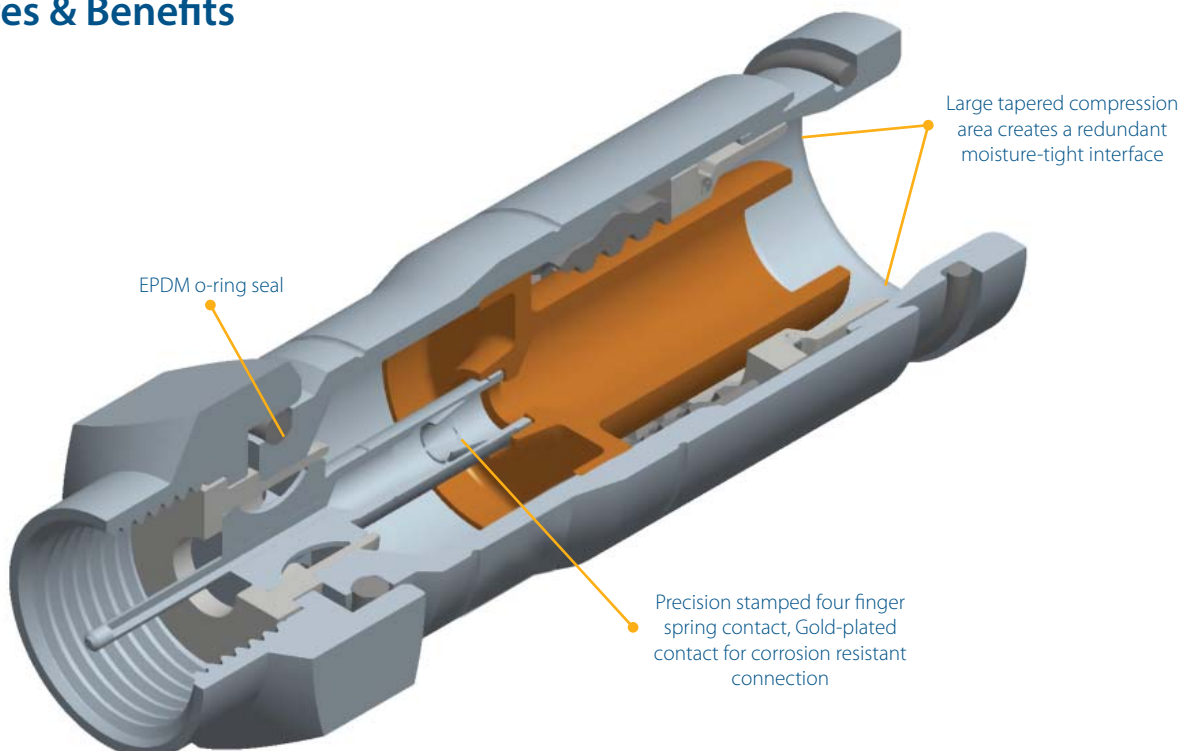
#### Specifications

Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -20 dB to 1 GHz
Insertion Loss	Less than .10 dB to 1.2 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	175 lbs (20.41 kg) minimum

*Meets or Exceeds all SCTE Specifications*



## Features & Benefits



## Application



EX® Universal compression connectors used in combination with port seals ensure proper port sealing every time  
Right angle connectors prevent improper cable bending and tap ports from breaking in smaller pedestals

## EX® Series Universal Compression Connectors: Series 320



### Part Numbers

EX320QR	EX® connector, 9/16" hex nut, series 320QR cable
EX320RAFM	EX® connector, right angle, 9/16" hex nut, series 320QR cable



### Preparation & Installation Tools

Compression Tool	VT200	VT300	CATAS	CAT-AS-EX
Coring Tool	CST-320/7CQRF		SCT-F320QR	
Messenger Web Slitter/Shaver	MWSS400			
9/16" snap torque wrench	TW309			

## EX<sup>®</sup> Universal BNC Compression Connectors Series 6, 59 & Headend

The EXBNC Series is a universal compression connector designed for use with RG6 60% through Quad Cable (EXBNC6), Belden 9167 Head End Cable / RG59 60% through Quad (EXBNC9167) or CommScope F59HEC-2 / Times Fiber 02240V/02241V Head End Cable (EXBNCHE).

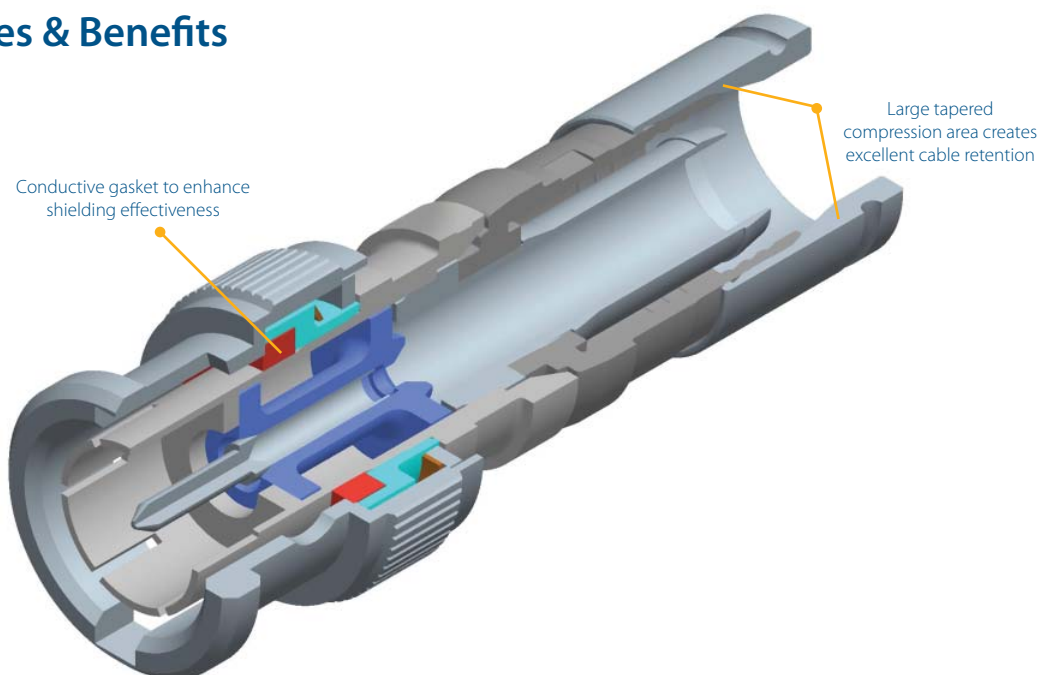
### Specifications

Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 1 GHz
Shielding Effectiveness	-80 dB minimum
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

*Meets or Exceeds all SCTE Specifications*



## Features & Benefits





## Application



EX® BNC Connectors for Headend applications

## EX® Series Universal BNC Compression Connectors: Series 6, 59 & Headend



### Part Numbers

EXBNC6	EX® Universal compression connector, BNC, series 6 cable
EXBNC9167	EX® Universal compression connector, BNC, Belden 9167 headend cable and RG59 60% - quad
EXBNCHE	EX® Universal compression connector, BNC, Commscope and Times Fiber headend cable

CAT-MULTIMEDIA-PPC



LDT596-250



### Preparation & Installation Tools

Compression Tool	CAT-MULTIMEDIA-PPC
1/4" – 1/4" universal drop cable preparation tool	LDT596-250
	DDT59611



## CMP® Compression Connectors Series 6 & 59

PPC's CMP® compression connectors (US Patent # 5,470,257) presents a high value, cable-specific compression connector solution. Designed to fit 60%, Tri-shield and Quad cables, CMP® connectors are also compatible with industry standard tools.

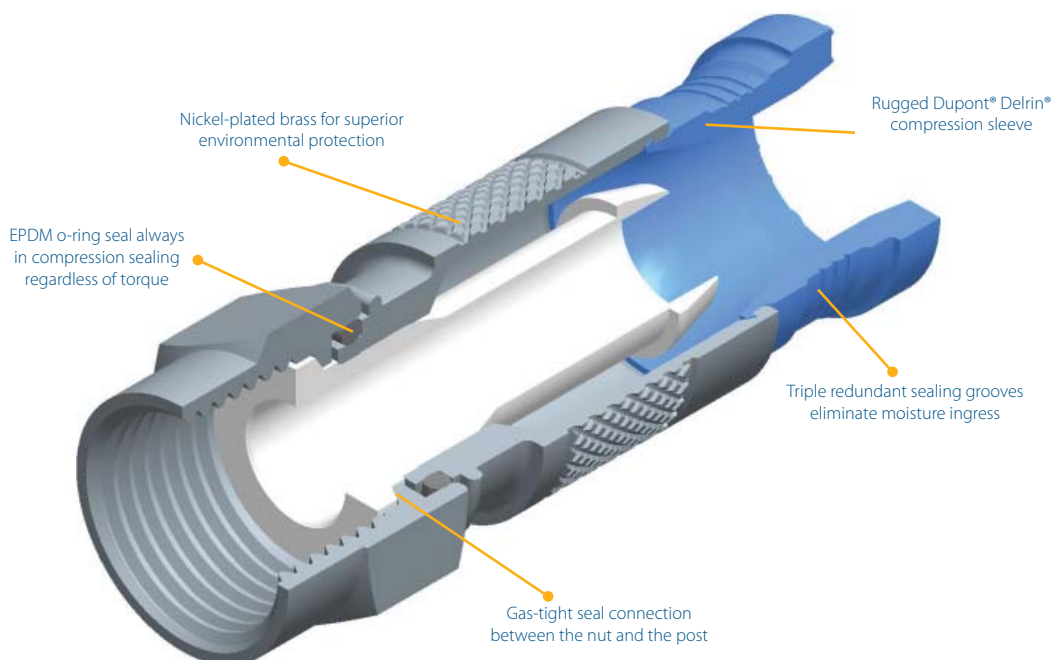


### Specifications

Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Insertion Loss	Less than .10 dB to 3 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

*Meets or Exceeds all SCTE Specifications*

## Features & Benefits



## Application



CMP® compression connectors used in combination with port seals ensure proper port sealing every time

## CMP® compression connectors: Series 6 & 59



### Part Numbers

CMP6	CMP® compression connector, series 6 cable, 60% - Tri shield
CMP6Q	CMP® compression connector, series 6 cable, Quad shield
CMP59	CMP® compression connector, series 59 cable, 60% - Tri shield
CMP59Q	CMP® compression connector, series 59 cable, Quad shield



VT200



LDT596-250



TW307 AH

### Preparation & Installation Tools

Compression Tool	CATAS, VT200		
¼" – ¾" universal drop cable preparation tool	LDT596-250	DDT59611	
7/16" snap torque wrench	TW207	TW307	TW307 AH

## CMP® Series BNC & RCA Compression Connectors

### Series 6, 59

PPC's CMP® Series (US Patent # 5,470,257) presents a high value RCA & BNC compression connector solution. Designed to fit 60%, Tri-shield and Quad cables CMP® connectors are also compatible with industry standard tools.

#### CMP® BNC Specifications

Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Shielding Effectiveness	-80 dB minimum
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

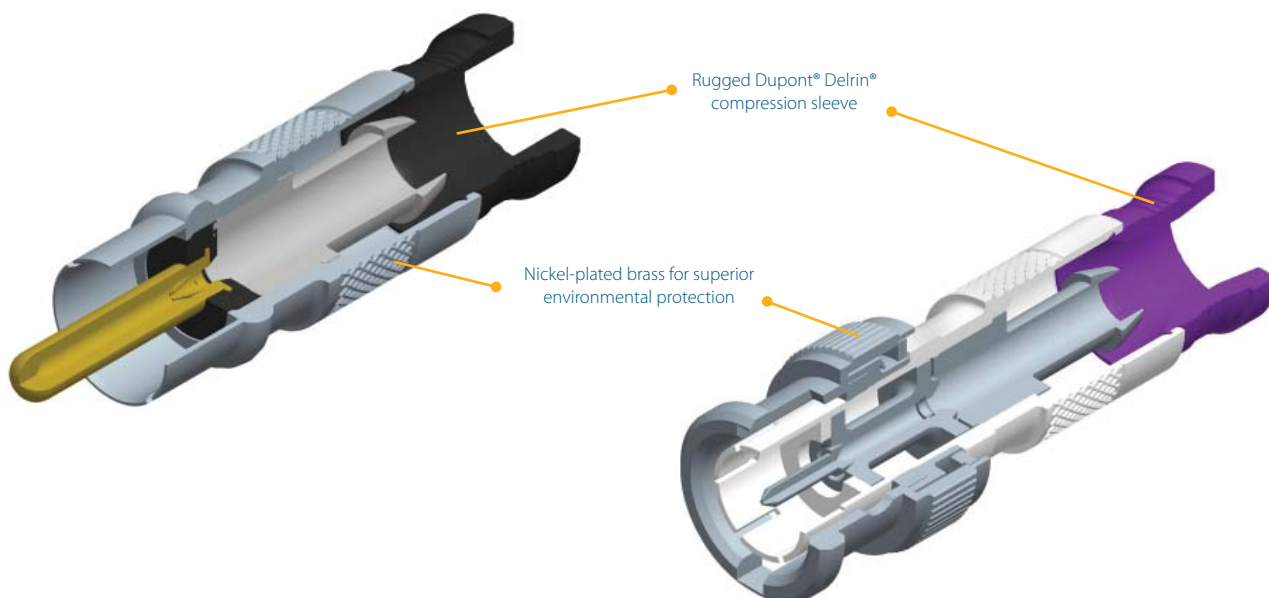
#### CMP® RCA Specifications

Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

*Meets or Exceeds all SCTE Specifications*



## Features & Benefits



## Application



CMP® Series BNC connectors

## EX® Series Universal BNC Compression Connectors: Series 6, 59 & Headend



### Part Numbers

CMPBNC6	CMP® compression connector, BNC, series 6 cable
CMPBNC59	CMP® compression connector, BNC, series 59 cable
CMPRCA6	CMP® compression connector, RCA, series 6 cable
CMPRCA59	CMP® compression connector, RCA, series 59 cable

CAT-MULTIMEDIA-PPC



LDT596-250



### Preparation & Installation Tools

Compression Tool	CAT-MULTIMEDIA-PPC	
¼" – ¼" universal drop cable preparation tool	LDT596-250	DDT59611

## CMP® F, BNC & RCA Compression Connectors

### Series Mini Headend Coax

PPC's CMP® Series Mini connectors are designed for Mini headend Quad shield cable. CMP® mini connectors feature a threaded post for ease of installation. F-style connectors have an SCTE compliant pin attached to the compression ring for improved contact to female ports.

#### CMP® BNC & F Specifications

Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Shielding Effectiveness	-80 dB minimum
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

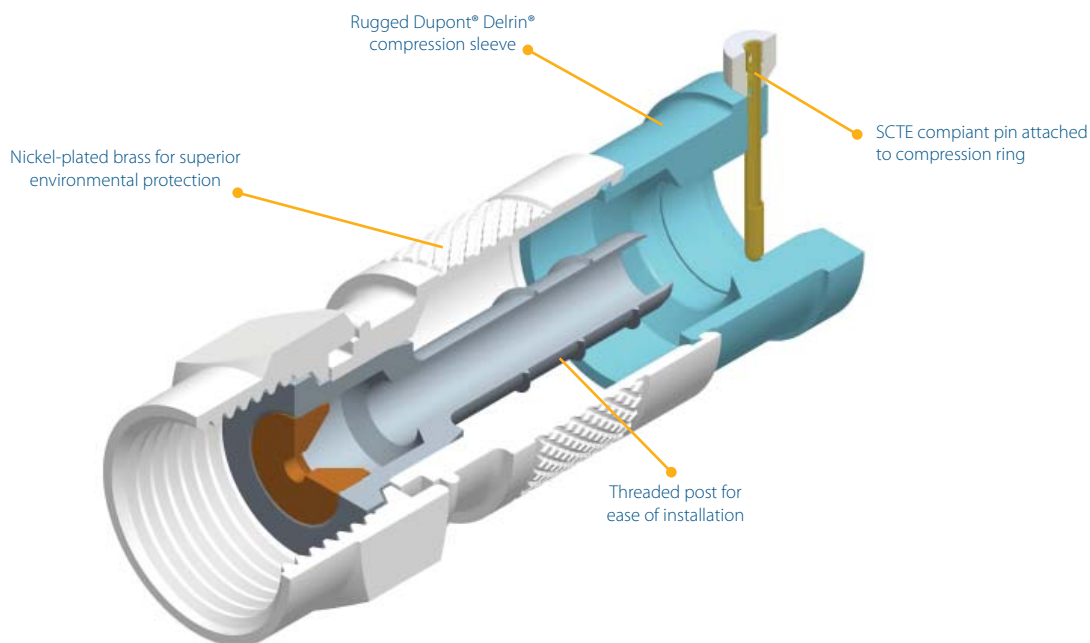
#### CMP® RCA Specifications

Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

*Meets or Exceeds all SCTE Specifications*



## Features & Benefits





## Application



## CMP® compression connectors : Series Mini headend cable – Quad shield

CMPF-MINI-HE



CMPBNC-MINI-HE



CMPRCA-MINI-HE



### Part Numbers

CMPF-MINI-HE	CMP® compression connector, F, series mini headend – Quad shield cable
CMPBNC-MINI-HE	CMP® compression connector, BNC, series mini headend – Quad shield cable
CMPRCA-MINI-HE	CMP® compression connector, RCA, series mini headend – Quad shield cable

VT200



CAT-MULTIMEDIA-PPC



LDTMINI



### Preparation & Installation Tools

Compression Tool	CAT-MULTIMEDIA-PPC (all types)	
	VT200 (F-type only)	CAT-AS (F-type only)
¼" – ¼" universal drop cable preparation tool	LDT-MINI	DDT-596MINI

# CMP® F, BNC & RCA Compression Connectors

## Series Mini Coax

PPC's CMP® Series Mini connectors are designed for Mini cable, tape and braid through Tri shield. F-style connectors have an SCTE compliant pin attached to the compression ring for improved contact to female ports.

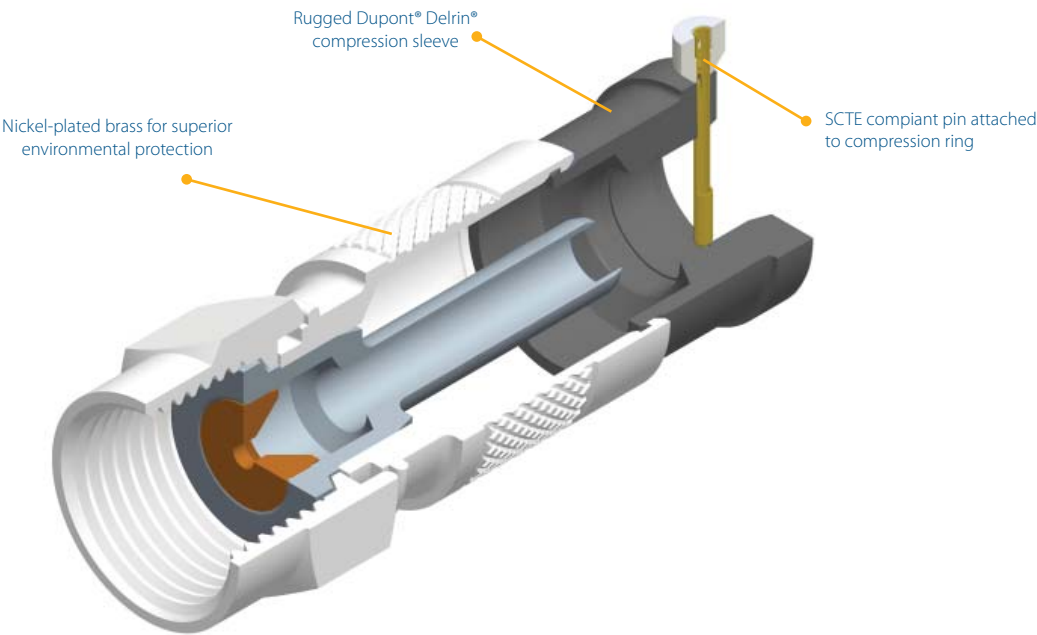
CMP® BNC & F Specifications	
Bandwidth	0 MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 3 GHz
Shielding Effectiveness	-80 dB minimum
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

CMP® RCA Specifications	
Operating Voltage	90 V (at 60 Hz continuous AC)
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Cable Retention	50 lbs (22.73 kg) minimum

Meets or Exceeds all SCTE Specifications



## Features & Benefits



## Application



## CMP® compression connectors : Series mini (Tape & Braid - Tri shield)

CMPF-MINI-HE



CMPBNC-MINI-HE



CMPRCA-MINI-HE



### Part Numbers

CMPF-MINI	CMP® compression connector, F, series mini cable, tape & braid - tri
CMPBNC-MINI	CMP® compression connector, BNC, series mini cable, tape & braid - tri
CMPRCA-MINI	CMP® compression connector, RCA, series mini cable, tape & braid - tri

VT200



CAT-MULTIMEDIA-PPC



LDTMINI



### Preparation & Installation Tools

Compression Tool	CAT-MULTIMEDIA-PPC (all types)	
	VT200 (F-type only)	CAT-AS (F-type only)
1/4" - 1/4" universal drop cable preparation tool	LDT-MINI	DDT-596MINI

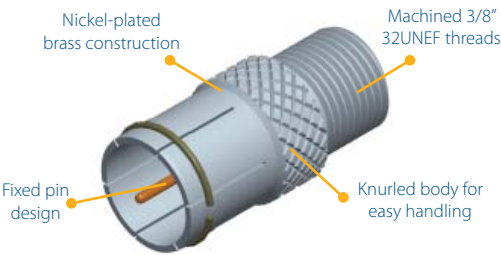
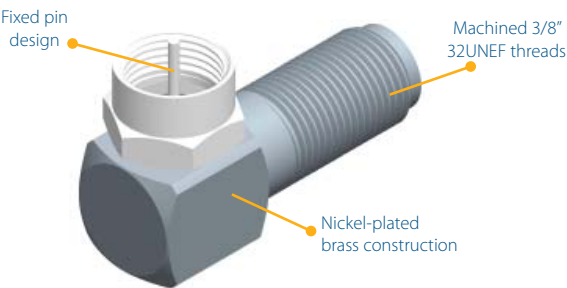
# F-male to F-female Adapters

PPC’s right angle F-male to F-female adapter is designed for use in tight areas and easily adapts typical F-connectors to 90 degree turns. PPC’s push-on F-male to F-female adapter features nickel-plated brass construction, a fixed pin and machined 3/8” 32UNEF threads.

Specifications	
Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 1 GHz
Insertion Loss	less than .05 dB to 1 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)
Meets or Exceeds all SCTE Specifications	



## Features & Benefits



## Part Numbers & Tools



RAFM/FF



CPF59

### Part Numbers

RAFM/FF	Right angle, F-male to F-female adapter
CPF59	Push-on, F-male to F-female adapter



TW307 AH

### Preparation & Installation Tools

7/16” snap torque wrench	TW207	TW307	TW307 AH
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## BNC to F Adapters

PPC's precision adapters for headend and test equipment usage provides superior performance and durability through precision contacts.

### Specifications

Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -25 dB to 1 GHz
Insertion Loss	less than .05 dB to greater than 1 GHz
Operating Voltage	90 V (at 60 Hz continuous AC)

*Meets or Exceeds all SCTE Specifications*

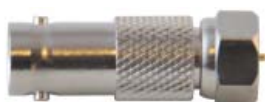


## Part Numbers

C BNCF MF



C BNCF FM



### Part Numbers

C BNCF MF	BNC to F-adapter, male BNC to F-female
C BNCF FM	BNC to F-adapter, female BNC to F-male

# Terminators

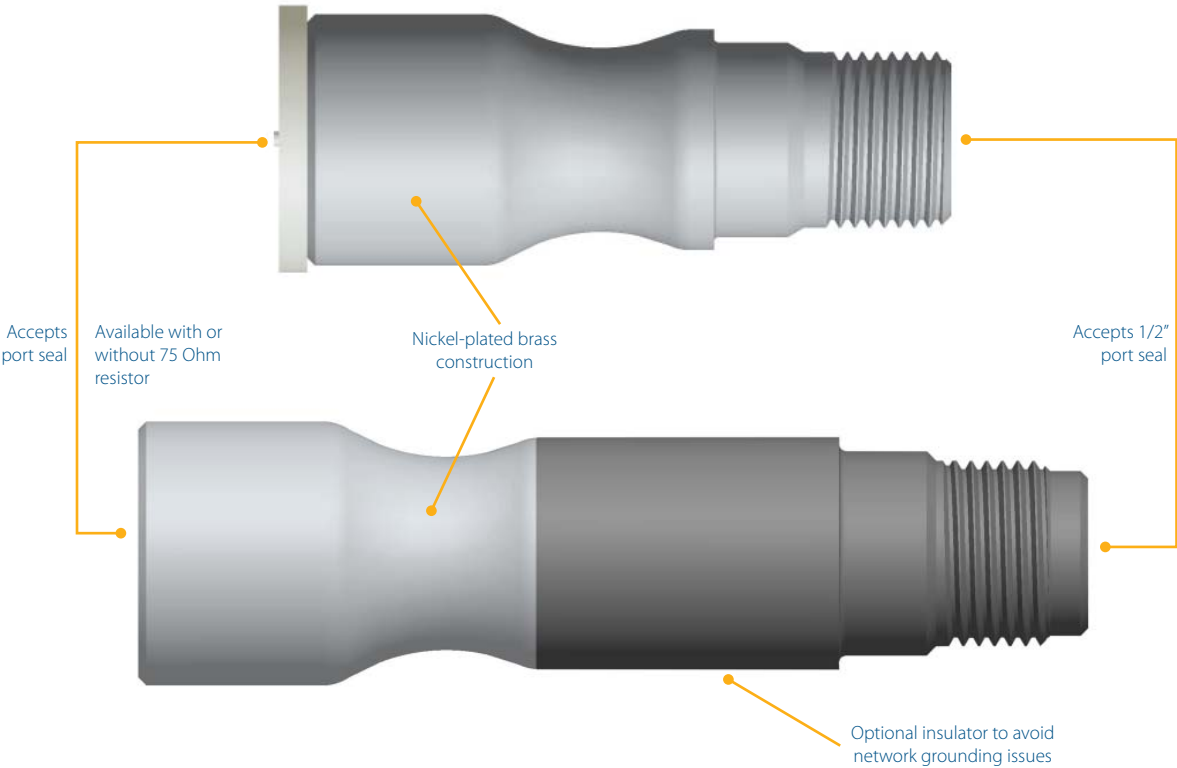
## Locking and Basic

High reliability in a small package. The PST Drop Terminator incorporates a variety of enhancements allowing users to terminate, secure and disconnect a drop, while offering longevity sealing for both the tap port and the drop connector.

Specifications	
Return Loss	-30 dB to 3 GHz minimum
Shielding Effectiveness	-120 dB minimum
Corrosion Resistance	meets SCTE and Belcore per ATSM B117 (1000 hour salt fog)
Moisture Migration	Meets SCTE IPS-TP-013 (Red-dye moisture migration test)
Specifications for insulated versions only	
Resistance (electrical)	3.5E+13 Ohm
Isolation Withstand	>5,000 (VDC or VAC)
Meets or Exceeds all SCTE Specifications	



## Features & Benefits



## Application



## Locking terminators with and without 75 Ohm resistor

PSTNR



PST75



PSTNRI



PST75I



### Part Numbers

PSTNR	PST locking terminator, without 75 Ohm resistor
PST75	PST locking terminator, 75 Ohm resistor
PSTNRI	PST locking terminator, insulator, without 75 Ohm resistor
PST75I	PST locking terminator, insulator, 75 Ohm resistor

### Preparation & Installation Tools

Locking Terminator Tools	LTT4	LTT7	LTTV2/3	LTT7TP
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## Basic terminators with and without 75 Ohm resistor

TR75S



TR75SS



TR75SSNR



### Part Numbers

TR75S	Terminator, 75 Ohm resistor
TR75SS	Swivel type, theft proof, 75 Ohm resistor, used with security sleeve
TR75SSNR	Swivel type, theft proof, without 75 ohm resistor, used with security sleeve

# Terminators

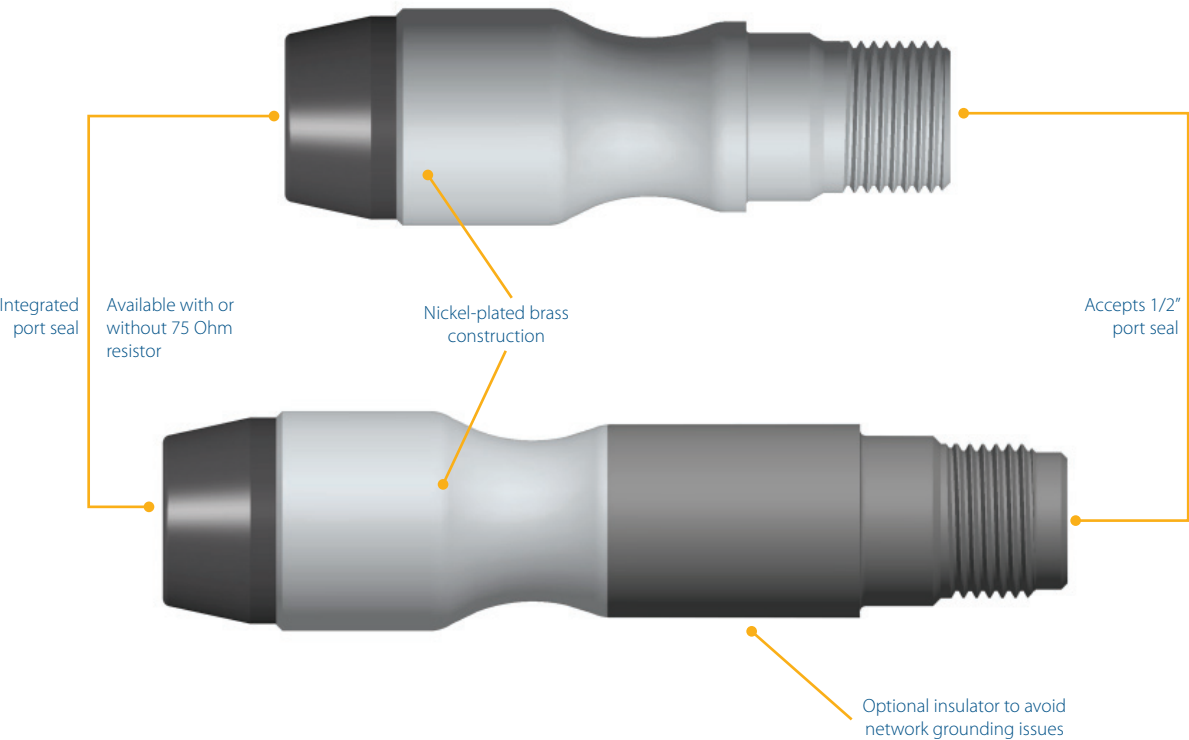
## AquaTight<sup>®</sup> PST Locking Terminators

Poor electrical terminations caused by moisture migration create havoc on system performance. Common faulty 75 Ohm terminations caused by moisture result in service calls. AquaTight<sup>®</sup> PST terminators guarantee the use of the proper port seal every time, keeping the moisture out, improving network performance and reducing costly service calls.

Specifications	
Return Loss	-30 dB to 3 GHz minimum
Shielding Effectiveness	-120 dB minimum
Corrosion Resistance	meets SCTE and Belcore per ATSM B117 (1000 hour salt fog)
Moisture Migration	Meets SCTE IPS-TP-013 (Red-dye moisture migration test)
Specifications for insulated versions only	
Resistance (electrical)	3.5E+13 Ohm
Isolation Withstand	>5,000 (VDC or VAC)
Meets or Exceeds all SCTE Specifications	



## Features & Benefits





## Application



AquaTight® PST terminators ensure proper port sealing and electrical termination every time.

## Locking terminators with and without 75 Ohm resistor

PSTNRWS



PST75WS



PSTNRIWS



PST75IWS



### Part Numbers

PSTNRWS	PST locking terminator, Integrated port seal, without 75 Ohm resistor
PST75WS	PST locking terminator, Integrated port seal, 75 Ohm resistor
PSTNRIWS	PST locking terminator, Integrated port seal, insulator, without 75 Ohm resistor
PST75IWS	PST locking terminator, Integrated port seal, insulator, 75 Ohm resistor

### Preparation & Installation Tools

Locking Terminator Tools	LTT4	LTT7	LTTV2/3	LTT7TP
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# SimplEX® Adapters for PPC Connectors & Jumper Assemblies

PPC’s SimplEX® adapters are designed fit EX® and CMP® series connectors for 6 and 59 series cable. These innovative adapters enable 300% additional torque during hand tightening to customer premise equipment. The SimplEX® adapter also allows for easier installations in difficult to reach areas such as behind entertainment centers and crowded cabled areas.

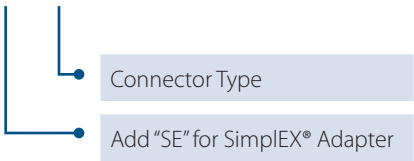


## SimplEX® Jumpers

- Significantly Reduces The Possibility of Loose Connections
  - Triples the hand tightening torque
  - Eases installation in blind or difficult situation
  - Limits the possibility of equipment damage caused by over-torquing with a wrench
- Ideal For Customer Self-Install Kits
- Designed For Use With PPC Connectors
- Can Prevent CLI, Connector loosening and Service calls

Compatible Connectors	
SimplEX® adapters are designed to fit the following EX® and CMP Connectors	
EX59	EX® Universal compression connector, series 59 cable
EX59XL	EX® Universal compression connector, extended body, series 59 cable
EX6	EX® Universal compression connector, series 6 cable
EX6XL	EX® Universal compression connector, extended body, series 6 cable
CMP59	CMP® compression connector, series 59 cable, 60% - tri shield
CMP59Q	CMP® compression connector, series 59 cable, quad shield
CMP6	CMP® compression connector, series 6 cable, 60% - tri shield
CMP6Q	CMP® compression connector, series 6 cable, quad shield

## Sample Part Number for SimplEX® and compatible connectors EX59SE



## Custom Coax Jumper Assemblies

PPC's universal drop jumpers are custom-configured to your specifications. We connectorize our jumpers with PPC EX® compression connectors. PPC jumper assemblies meet or exceed all industry specifications for RF signal containment, moisture migration protection and pull strength.

Poorly installed connectors are the weak link in many systems. Connectors that have been properly installed are a must to support next generation services for voice, video and data that demand the highest system integrity. PPC factory terminated jumpers ensure excellent performance every time.

### Field Installation Can Be Subject to Common Mistakes

- Wrong Connector Chosen for Cable Type
- Incorrect Cable Preparation
- Worn and Damaged Prep. Tools
- Improper Compression

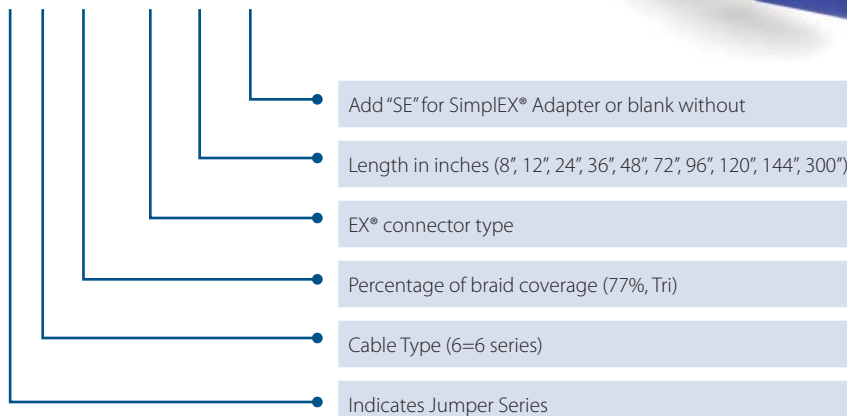
### What We Know Goes Into Every Jumper We Build – Quality Guaranteed

- Precision prep, install, compression and assembly operation



### Sample Part Number

**JP6/77T EX XX SE**



## Ground Blocks

PPC's PPF81GND series ground blocks offer superior corrosion resistance via stainless steel and nickel-plated brass construction with the option of port seals. PPC's ground blocks also provide mounting flexibility and multiple ground conductor entry points.

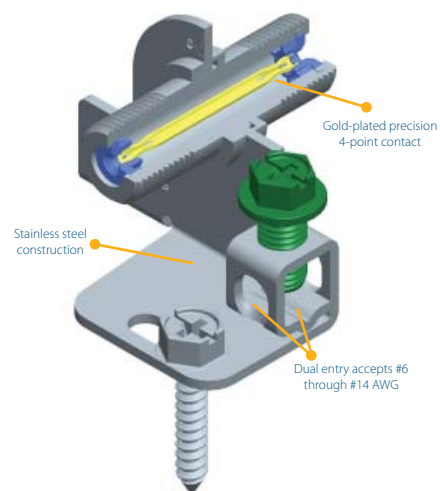
### Specifications

Bandwidth	5MHz to 3 GHz
Impedance	75 Ohms (nominal)
Return Loss	Better than -30 dB to 1 GHz, Better than -25 dB to 3 GHz
Shielding Effectiveness	-140 dB minimum
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)
Corrosion Resistance	meets SCTE and Belcore per ATSM B117 (1000 hour salt fog)
Moisture Migration	Meets SCTE IPS-TP-013 (Red-dye) when used with standard WS-500 port seals
Wire Gauge	Accepts #6 through #14 AWG

*Meets or Exceeds all SCTE Specifications, UL Approved*



### Features & Benefits



## Ground Blocks with and without ports seals



PPF81GND1SS



PPF81GND1SSWS

### Part Numbers

PPF81GND1SS	Ground block, single barrel, stainless steel
PPF81GND1SSWS	Ground block, single barrel, stainless steel, port seals



## Female Splice Adapters

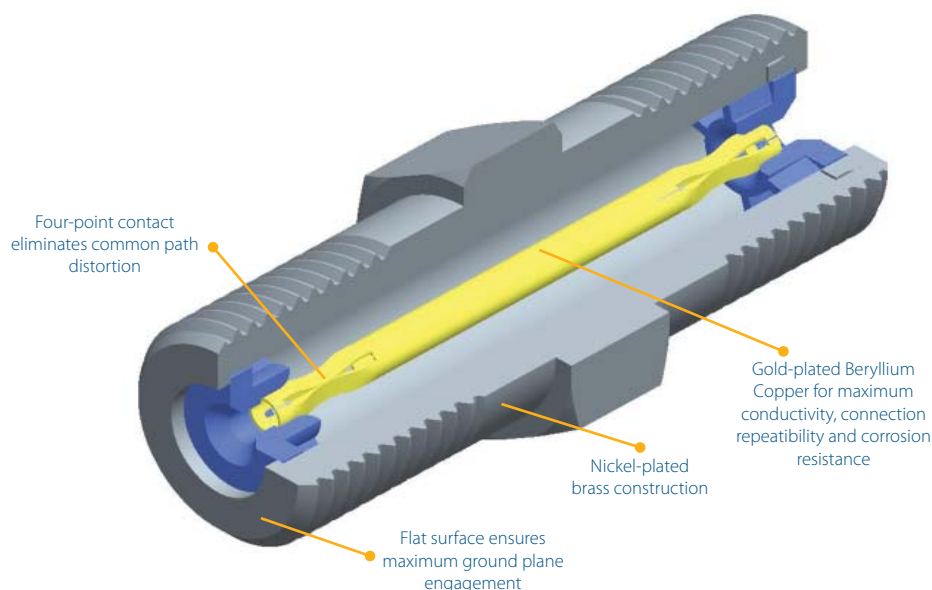
PPC's "F" female splice adapters offer superior corrosion resistance and weather sealing capability. The Gold-plated Beryllium Copper 4-point center conductor contact provides superior conductivity, connection repeatability and corrosion resistance.

### Specifications

	RANGE	S.R.L.	I.L.
Bandwidth	0 GHz to 2 GHz	> 30 dB	< .05 dB
	2 GHz to 3 GHz	> 25 dB	< .10 dB
Impedance	75 Ohms (nominal)		
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)		



### Features & Benefits



### Indoor and outdoor female splice adapters



### Part Numbers

CF81GHZC	Female splice adapter, 3GHz, indoor/outdoor
CF81GHZM	Female splice adapter, 3GHz, indoor wall plate version
CF81GHZMHDW	Female splice adapter, 3GHz, indoor wall plate version with hardware

# Wall Plates

PPC’s wall plate incorporates a Precision F-81 Splice Adapter to ensure quality, long-lasting connectivity. Available in single or dual versions with white or ivory faceplates.

Specifications			
	RANGE	S.R.L.	I.L.
Bandwidth	0 GHz to 2 GHz	> 30 dB	< .05 dB
	2 GHz to 3 GHz	> 25 dB	< .10 dB
Impedance	75 Ohms (nominal)		
Operating Temperature	-40° F to + 140° F (-40° C to 60° C)		



## Wallplates: Single & dual connection

WP1HPW



WP1HPI



WP2HPW



WP2HPI



### Part Numbers

WP1HPW	Wall plate, white, single connection
WP1HPI	Wall plate, ivory, single connection
WP2HPW	Wall plate, white, dual connection
WP2HPI	Wall plate, ivory, dual connection

### Installation Tools

7/16" wrench
--------------

## Port Seals

PPC's port seals are designed for use with all PPC connectors. The patented sealing element design of these port seals offers longevity sealing for both the tap port and the drop connector.

### Specifications

Material	60 Durometer ethylene propylene compound
Temperature Range	-70° F to + 250° F (-56° C to 121° C)
U.S. Patent Number	4,869,679

*Meets or Exceeds all SCTE Specifications*



## Application



PPC Port Seals protect both the port and connector from moisture migration which leads to corrosion and service calls

## Port seals for 3/8" and 1/2" port lengths

WS375



WS500



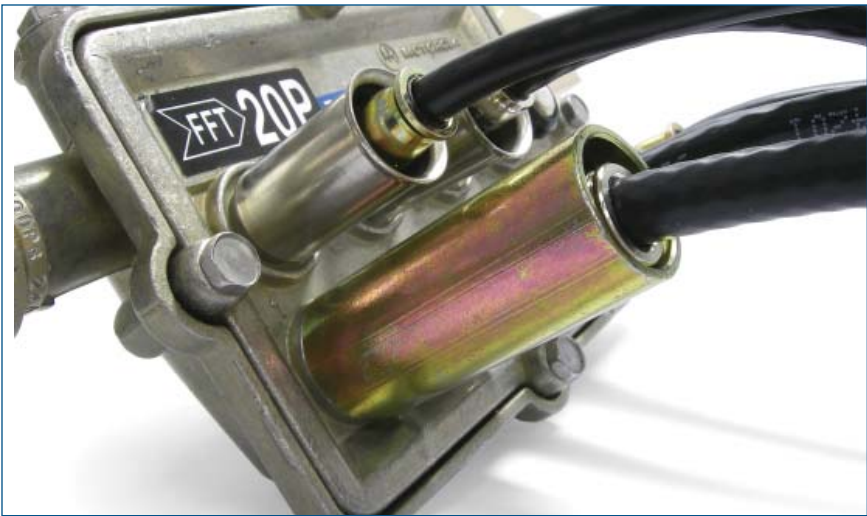
### Part Numbers

WS375	3/8" port seal
WS500	1/2" port seal

# Security Shields

PPC’s Port Security Shield reduces theft of service and subscriber tampering. The stainless steel construction provides durability in harsh environments. Shields are designed for use with and without port seals.

## Application



## Security Shield for use with port seals



### Part Numbers

WMS716	Security shield, stainless steel, used with port seal
WMS916	Security shield, stainless steel, used with port seal
MS716	Security shield, stainless steel, used without port seal
MS916	Security shield, stainless steel, used without port seal

### Installation Tools

S-200WS	Security shield wrench, used with WMS716 & MS716
ST916	Security shield wrench, used with WMS916 & MS916



## Compression Tools

The VT-200 and VT-300 professional compression tools are for use on all types of series 59, 6, 7 and 11 coaxial cable, as well as 320QR mini hardline cable.

### VT-200 for use with the following connectors



EX®	
EX6XL	EX7N716
EX59XL	EX11
EX59XLHE	EX11N716
EX7	EX320QR

AquaTight®	
EX6XLWS	EX11N716WS
EX59XLWS	EX320QRWS
EX7N716WS	

CMP®	
CMP6	CMP59Q
CMP6Q	CMPF-MINI
CMP59	CMPF-MINI-HE

### VT-300 for use with the following connectors



EX®	
EX6	EX7N716
EX59	EX11
EX59HE	EX11N716
EX7	EX320QR

AquaTight®	
EX6WS	EX11N716WS
EX59WS	EX320QRWS
EX7N716WS	

## Drop Cable Preparation Tools



### Lightweight Drop Trimmer

LDT596-250	1/4" x 1/4" cable preparation tool, series 6 & 59 cable
LDTMINI	1/4" x 1/4" cable preparation tool, series Mini cable



### Dual Drop Trimmer

DDT59611	1/4" x 1/4" cable preparation tool, series 6, 59 & 11 cable
DDTMINI	1/4" x 1/4" cable preparation tool, series Mini cable



### Single Drop Trimmer

SDT596-250	1/4" x 1/4" cable preparation tool, series 6 & 59 cable
SDT7-250	1/4" x 1/4" cable preparation tool, series 7 cable
SDT11-250	1/4" x 1/4" cable preparation tool, series 11 cable



### Universal Drop Trimmer

UDT59611-250	1/4" x 1/4" cable preparation tool, series 6, 59 & 11 cable
UDT711-250	1/4" x 1/4" cable preparation tool, series 7 & 11 cable
UDT596711-250	1/4" x 1/4" cable preparation tool, series 6, 59, 7 & 11 cable



### Locking Terminator Tools

LTT4	Locking terminator tool, length 4.5"
LTT7	Locking terminator tool, length 8.0"
LTT7V23	Locking terminator tool, Viewsonic tool on opposite end
LTT7TP	Locking terminator tool, PPC 502 LTR tool on opposite end



### Torque Wrenches









TW 207	7/16"	20 inch-lb (2.26 NM), tap port rethreader on end of tool
TW 307	7/16"	30 inch-lb (3.39 NM), tap port rethreader on end of tool
TW 307 AH	7/16"	30 inch-lb (3.39 NM), angled head, tap port rethreader on end of tool
TW 307 AH-IT	7/16"	30 inch-lb (3.39 NM), angled head, connector insertion tool on end
TW 309	9/16"	30 inch-lb (3.39 NM), tap port rethreader on end of tool



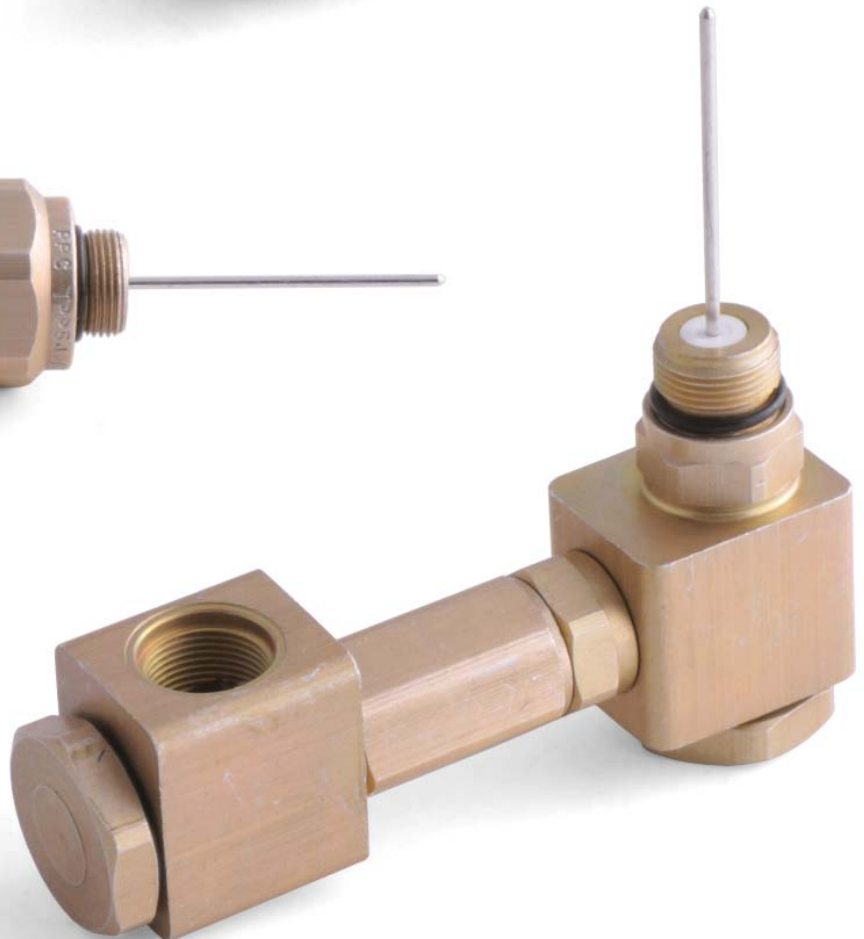
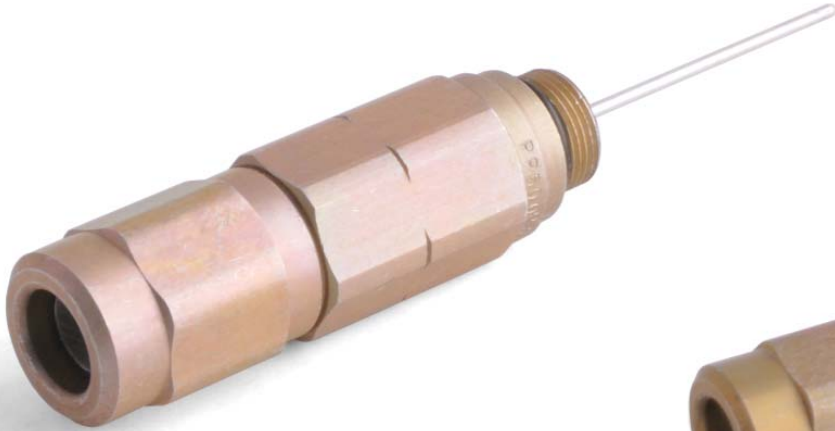
### Security Shield Tools

S-200	Security shield wrench, used with WMS716 & MS716
S-200WS	Security shield wrench, used with WMS716 & MS716 (EX® AquaTight® connectors only)
ST916	Security shield wrench, used with WMS916 & MS916

## Compression tools and associated connectors

	EX XL F Connector • EX6/59XL • EX59XLHE • EX6XLWS • EX6XLP	EX F Connector • EX6/59 • EX6WS • EX59HE • EX6P	EX 7/11/320/ CMP11 • ALL MODELS	CMP F Connector • CMP59/59Q • CMP6/6Q • CMPF-MINI	EX BNC • EXBNC6 • EXBNCHE • EXBNC9167	CMP BNC • CMPBNC6/59 • CMPBNC59HE • CMPBNC-MINI	CMP RCA • CMPRCA6/59 • CMPRCA-MINI
VT200 	●		●	●			
VT300 		●	●				
VT100 	●			●			
CAT-AS 	●		●	●			
CAT-AS-EX 		●	●				
EX59/6CAT-U 	●			●			
EX59/6CAT 		●					
CAT-MULTIMEDIA-PPC 	●		●	●	●	●	●

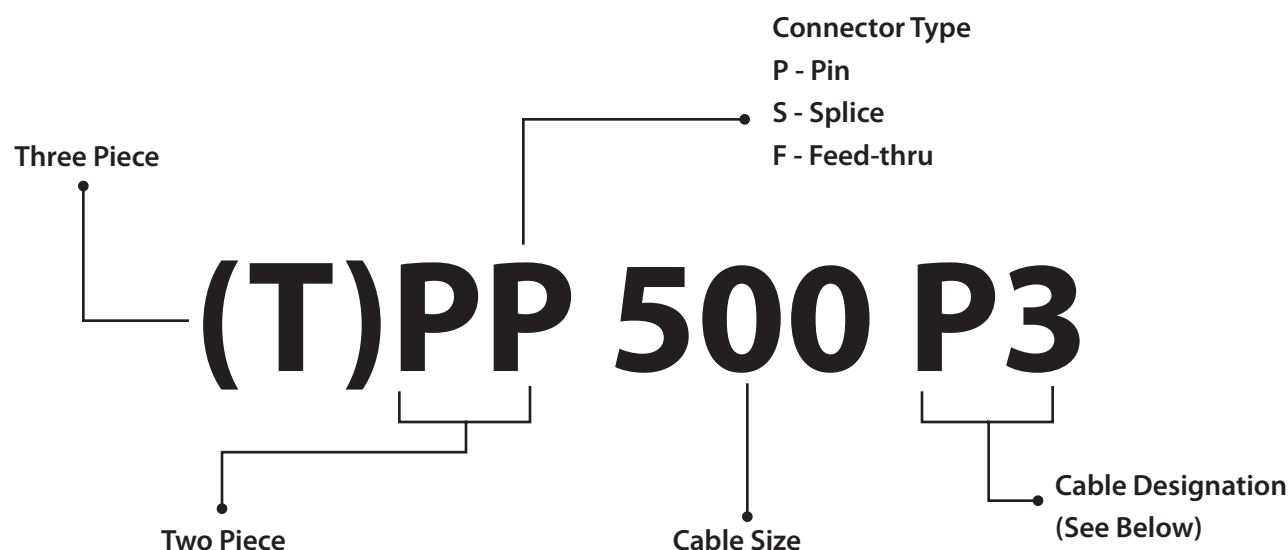
# Hardline



## Hardline Connector Part Identification

PPC hardline connectors are renowned for their quality, performance, reliability, and ease of installation. They are designed to handle the challenges of today's digital cable networks including: high speed data, telephony, and performance beyond 1 GHz. PPC's hardline connectors are designed for all major CATV cable manufacturers.

Our connectors also boast an unusual feature which is a key advantage for our customers: reusability. During routine, as well as most emergency maintenance, our connectors can be reused without damage.



### Key to Cable Designations

P1	CommScope Parameter I*	G3	CCS Hatfield GID III*
P2	CommScope Parameter II*		Scientific Atlanta (Systems) GID-3*
P3	CommScope Parameter III	GX	Cerro*
QR	CommScope Quantum Reach	GXX	Cerro*
FD3	General Cable Fused Disc*	C4	Capscan*
FDM3	General Cable Metric Fused Disc M III*	CX	Scientific Atlanta Cable-Flex*
MC2	Trilogy Communications MC2	SLM	Systems Anaconda Sealmetic*
L2	Times Fiber Communications (TFC) Lumifoam II (Series 3000)*	EX	Essex*
L3	TFC Lumifoam III & T-4 (Series 4000)*	R1	Rome Cable*
TX	TFCTX	ST	Dynaplus (Dynafoam, Cerrofoam, Cell-O-Air)*
T6	TFCT6		
T10	TFCT10		
G1	CCS Hatfield GID-1*		
	Scientific Atlanta (Systems) GID-1*		

\*Note: Not in recent production, but still found in systems being rebuilt. Please check for availability. If in doubt as to which cable you have, send a sample so that we may help verify identification.



## Hardline Connector Mechanical Specifications

Mechanical Specifications: Nominal Connector Holding Power			
Cable Size	Center Conductor Force (lbs)	Outer Conductor Force (lbs)	Combined Force (lbs)
.412-.440	100 lbs (45.35 kg)	250 lbs (113.40 kg)	400 lbs (181.44 kg)
.500-.540	150 lbs (68.03 kg)	350 lbs (158.76 kg)	500 lbs (226.80 kg)
.565	175 lbs (79.37 kg)	400 lbs (181.44 kg)	575 lbs (260.81 kg)
.625	200 lbs (90.71 kg)	400 lbs (181.44 kg)	600 lbs (272.16 kg)
.700	225 lbs (102.61 kg)	425 lbs (192.78 kg)	650 lbs (294.83 kg)
.715	225 lbs (102.61 kg)	425 lbs (192.78 kg)	650 lbs (294.83 kg)
.750	250 lbs (113.40 kg)	450 lbs (204.12 kg)	700 lbs (317.51 kg)
.840	275 lbs (124.74 kg)	475 lbs (217.72 kg)	750 lbs (340.19 kg)
.860	315 lbs (142.88 kg)	480 lbs (226.80 kg)	795 lbs (360.60 kg)
.875	300 lbs (136.08 kg)	500 lbs (226.80 kg)	800 lbs (362.87 kg)
1.000-1.125	350 lbs (158.76 kg)	600 lbs (272.16 kg)	950 lbs (430.91 kg)
1.160	375 lbs (170.10 kg)	650 lbs (294.84 kg)	1025 lbs (464.93 kg)

# Hardline Connector

## P3/T10/TX/MC2 Cable Preparation Dimensions

### Two-Piece Connector Center Conductor and Coring Dimensions

Cable Size	Connector Type	A	B
.412	Pin	1.125	.875
	Splice	1.125	.875
	Feed Thru	2.000**	.875
.440 .500	Pin	1.125	.875
	Splice	1.125	.875
	Feed Thru	2.000**	.875
.565	Pin	1.125	.875
	Splice	1.125	.875
	Feed Thru	2.375**	.875
.625 .650	Pin	1.250	.875
	Splice	1.250	.875
.700 .750	Pin	1.250	.875
	Splice	1.250	.875
.840 .875	Pin	1.500	.875
	Splice	1.500	.875
1.00 1.160	Pin	1.625	.875
	Splice	1.625	.875

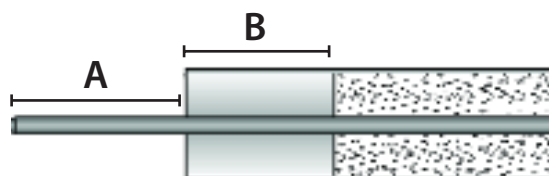
\*\* For Texscan and S/A equipment, add .625" to feed-thru lengths.

Note: When preparing a cable for use with a feed-thru connector into either a right-angle adapter, a 180° adapter, or splice block, "A" dimension should be 1.44". All measurements are in inches.

### Dimensions

A = Center Conductor

B = Core Depth

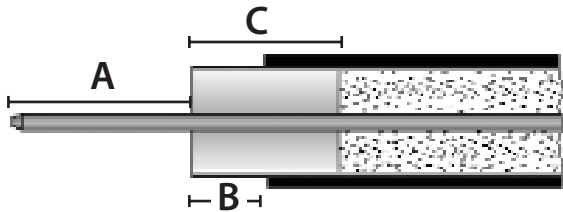


### Three-Piece Connector Center Conductor and Coring Dimensions

Cable Size	Connector Type	A	B
.412 .500 .565	Pin	1.000	.875
	Splice	1.000	.875
	Feed Thru	1.000	.875
.625 .650	Pin	1.000	.875
	Splice	1.000	.875
.700 .750	Pin	1.000	.875
	Splice	1.000	.875
.840 .875	Pin	1.000	.875
	Splice	1.000	.875

# Hardline Connector

## QR Cable Preparation Dimensions



Dimensions  
A = Center Conductor  
B = Outer Jacket  
C = Core Depth

### Two-Piece and Three-Piece Connector Center Conductor and Coring Dimensions

Cable Size	Connector Type	A	B	C
.320QR (7mm)	Pin	.9375	.500	1.250
	Splice	.9375	.500	1.250
.500QR	Pin	1.000	.500	1.250
	Splice	1.000	.500	1.250
.540QR .715QR	Pin	1.000	.500	1.250
	Splice	1.000	.500	1.250
.860QR	Pin	1.0625	.625	1.250
	Splice	1.0625	.625	1.250
1.125QR	Pin	1.250	.625	1.250
	Splice	1.250	.625	1.250

Note: When preparing a cable for use with a feed-thru connector into either a right-angle adapter, a 180° adapter, or splice block, "A" dimension should be 1.44". All measurements are in inches.

\*\* For Texscan and S/A equipment, add .625" to feed-thru lengths.

## 2-Piece Hardline Connectors

PPC hardline connectors are renowned for their quality, performance, reliability, and ease of installation. They are designed to handle the challenges of today's digital cable networks including: high speed data, telephony, and performance beyond 1 GHz. PPC's hardline connectors are designed for all major CATV cable manufacturers.

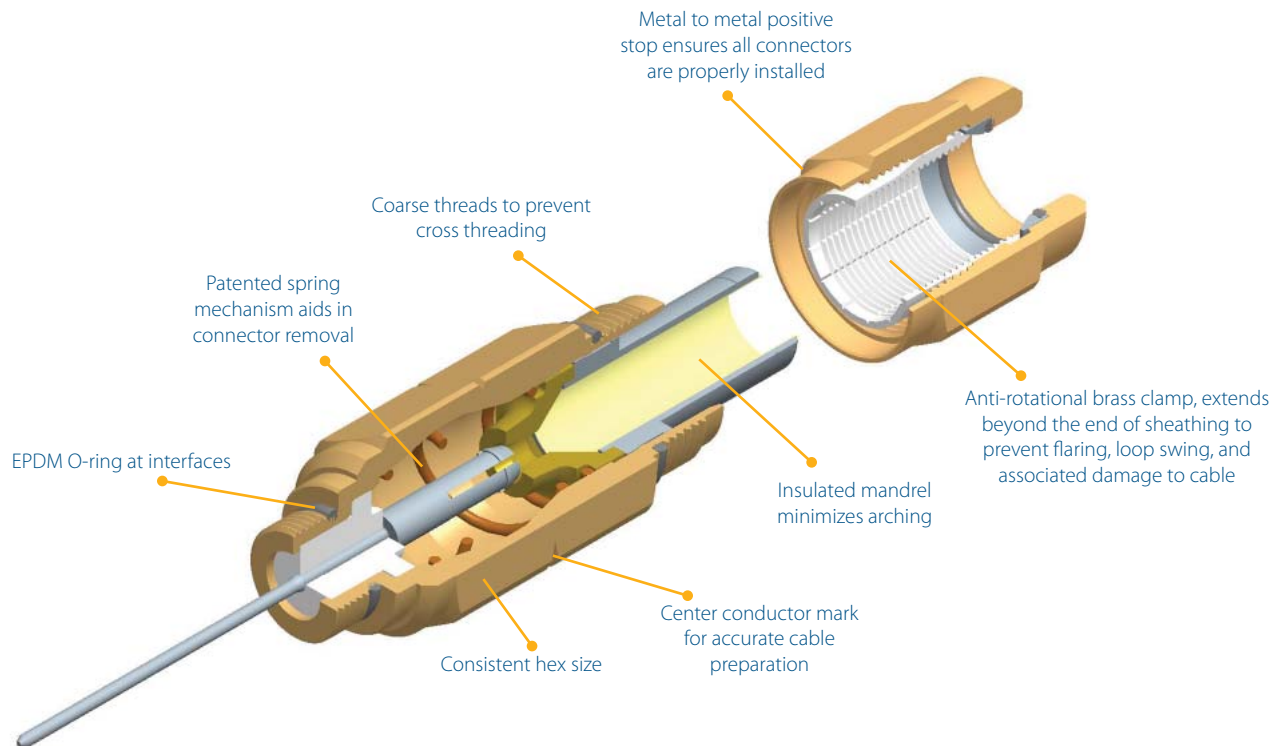
Our connectors also boast an unusual feature which is a key advantage for our customers: reusability. During routine, as well as most emergency maintenance, our connectors can be reused without damage.

### Features

- RF shielding effectiveness better than -120 dB, even at temperature extremes
- Thin film lubricant on all threads for smooth, non-galling installation
- Positive stop feature eliminates need for torque wrenches or special tools and guarantees consistent installation every time
- Patented anti-rotational feature which prevents cable rotation during installation
- Center conductor mark on all connectors for accurate cable preparation
- Self locking feature prevents back nut loosening caused by cable vibration
- Only one wrench size needed for each connector
- Patented spring mechanism aids in removal



## 2-Piece Hardline Connectors



### 2 Piece Product Specifications

Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 1 GHz
Insertion Loss	.05 dB at 500 MHz, .1 dB at 1 GHz
Surge Rating	6 kV
RF Shielding Effectiveness	-120 dB
Operating Temperature	-40° F to +140° F (-40° C to +60° C)
AC Current (continuous)	20 Amps. Max

*Meets or Exceeds all SCTE Specifications*

### Construction for 2-Piece Hardline Connectors

- Heavy-duty 6262 alloy aluminum construction for superior corrosion resistance
- Gold iridite plating for added protection
- Ultraviolet-resistant EPDM O-Rings
- Antigalling and long-life lubricant
- Contacts: brass with tin plate for long life, impervious to aging and extreme environmental conditions
- Withstands 40 PSIG pressurization
- External 5/8-24 mounting threads



## 2-Piece Hardline Connectors

### Pin Connector



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
Part Number	PP412P3	.875	PP320QR	.700	PP565P3/TX	.875	PP440MC2	.875
	PP500P3	.875	PP540QR	1.000	PP700P3/TX	1.125	PP500MC2	.875
	PP625P3	1.000	PP715QR	1.125	PP840P3/TX	1.312	PP650MC2	1.000
	PP750P3	1.125	PP860QR	1.437	PP1160P3/TX	1.500	PP750MC2	1.125
	PP875P3	1.312	PP1125QR	1.500			PP1000MC2	1.437
	PP1000P3	1.437						

### Splice Connector



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
Part Number	PS412P3	.875	PS320QR	.700	PS565P3/TX	.875	PS440MC2	.875
	PS500P3	.875	PS540QR	1.000	PS700P3/TX	1.125	PS500MC2	.875
	PS625P3	1.000	PS715QR	1.125	PS840P3/TX	1.312	PS650MC2	1.000
	PS750P3	1.125	PS860QR	1.437	PS1160P3/TX	1.500	PS750MC2	1.125
	PS875P3	1.312	PS1125QR	1.500			PS1000MC2	1.437
	PS1000P3	1.437						

### Feed-thru Connector



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
Part Number	PF412	.875	PF540QR	1.000	PF565P3/TX	.875	PF440MC2	.875
	PF500	.875					PF500MC2	.875
	PF625	1.000						

## 2-Piece Hardline Connectors

### "F" Female Connector (BAFF)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	PP412BAFFP3	.875	PP320BAFFQR	.700	PP565BAFFP3/TX	.875	PP440BAFFMC2	.875
	PP500BAFFP3	.875	PP540BAFFQR	1.000	PP700BAFFP3/TX	1.125	PP500BAFFMC2	.875
	PP625BAFFP3	1.000	PP714BAFFQR	1.125	PP840BAFFP3/TX	1.312	PP650BAFFMC2	1.000
	PP750BAFFP3	1.125	PP860BAFFQR	1.437	PP1160BAFFP3/TX	1.500	PP750BAFFMC2	1.125
	PP875BAFFP3	1.312	PP1125BAFFQR	1.500			PP1000BAFFMC2	1.437
	PP1000BAFFP3	1.437						

### "F" Male Connector (FM)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	PP412FMP3	.875	PP320FMQR	.700	PP565FMP3/TX	.875	PP412FMMC2	.875
	PP500FMP3	.875	PP540FMQR	1.000	PP700FMP3/TX	1.125	PP500FMMC2	.875
	PP625FMP3	1.000	PP715FMQR	1.125	PP840FMP3/TX	1.312	PP650FMMC2	1.000
	PP750FMP3	1.125	PP860FMQR	1.437	PP1160FMP3/TX	1.500	PP750FMMC2	1.125
	PP875FMP3	1.312	PP1125FMQR	1.500			PP1000FMMC2	
	PP1000FMP3	1.437						

## 2-Piece Hardline Connectors

### Extension Connector (available in 3, 6, and 9 inch lengths)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	PP412EXTP3	.875	PP320EXTQR	.700	PP565EXTP3/TX	.875	PP440EXTMC2	.875
	PP500EXTP3	.875	PP540EXTQR	1.000	PP700EXTP3/TX	1.125	PP500EXTMC2	.875
	PP625EXTP3	1.000	PP715EXTQR	1.125	PP840EXTP3/TX	1.312	PP650EXTMC2	1.000
	PP750EXTP3	1.125	PP860EXTQR	1.437	PP1160EXTP3/TX	1.500	PP750EXTMC2	1.125
	PP875EXTP3	1.312	PP1125EXTQR	1.500			PP1000EXTMC2	
	PP1000EXTP3	1.437						

### Cable Terminator (TR)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	PP412TRP3	.875	PP320TRQR	.700	PP565TRP3/TX	.875	PP440TRMC2	.875
	PP500TRP3	.875	PP540TRQR	1.000	PP700TRP3/TX	1.125	PP500TRMC2	.875
	PP625TRP3	1.000	PP715TRQR	1.125	PP840TRP3/TX	1.312	PP650TRMC2	1.000
	PP750TRP3	1.125	PP860TRQR	1.437	PP1160TRP3/TX	1.500	PP750TRMC2	1.125
	PP875TRP3	1.312	PP1125TRQR	1.500			PP1000TRMC2	1.437
	PP1000TRP3	1.437						

## 3-Piece Hardline Connectors

PPC hardline connectors are renowned for their quality, performance, reliability, and ease of installation. They are designed to handle the challenges of today's digital cable networks including: high speed data, telephony, and performance beyond 1 GHz. PPC's hardline connectors are designed for all major CATV cable manufacturers.

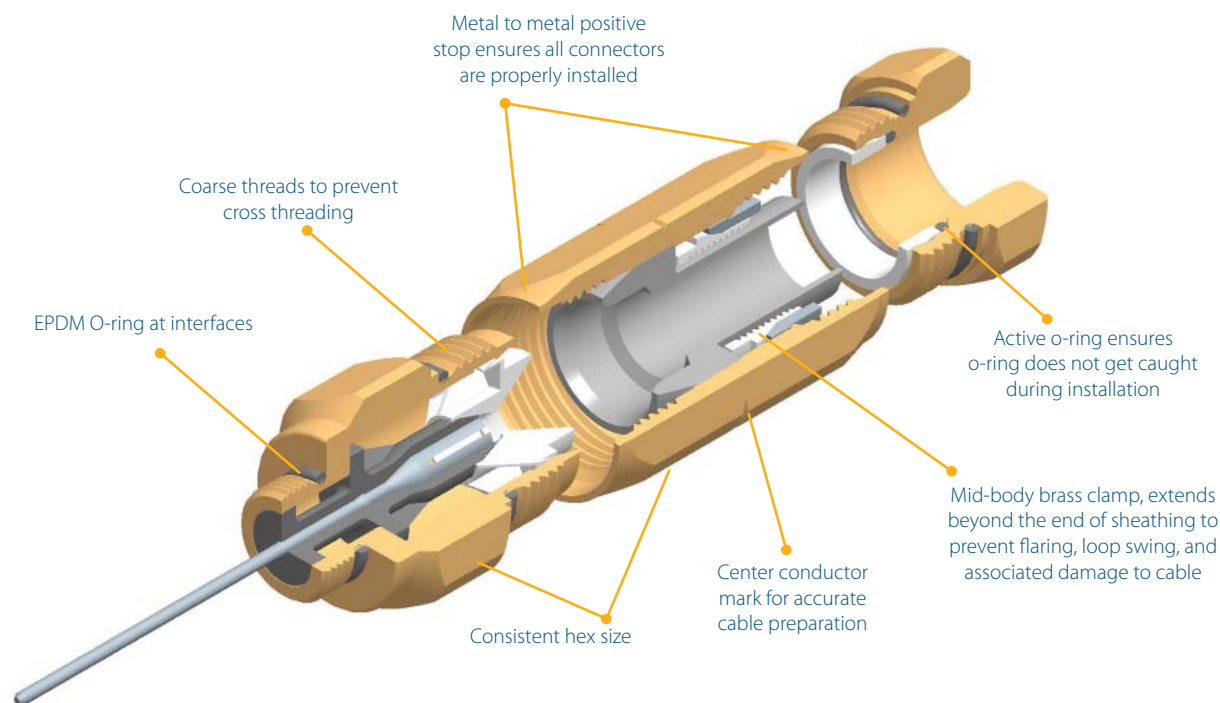
Our connectors also boast an unusual feature which is a key advantage for our customers: reusability. During routine, as well as most emergency maintenance, our connectors can be reused without damage.

### Features

- RF shielding effectiveness better than -120 dB, even at temperature extremes
- Thin film lubricant on all threads for smooth, non-galling installation
- Positive stop feature eliminates need for torque wrenches or special tools and guarantees consistent installation every time
- Patented anti-rotational feature which prevents cable rotation during installation
- Center conductor mark on all connectors for accurate cable preparation
- Self locking feature prevents back nut loosening caused by cable vibration
- Only one wrench size needed for each connector
- Mid-body clamping mechanism to prevent cable rotation during installation
- Active O-ring engages when connector is tightened to prevent moisture migration



## 3-Piece Hardline Connectors



### 3 Piece Product Specifications

Bandwidth	0 MHz to 1 GHz
Impedance	75 Ohms (nominal)
Return Loss	Minimum -30 dB to 1 GHz
Insertion Loss	.05 dB at 500 MHz, .1 dB at 1 GHz
Surge Rating	6 kV
RF Shielding Effectiveness	-120 dB
Operating Temperature	-40° F to +140° F (-40° C to +60° C)
AC Current (continuous)	20 Amps. Max

*Meets or Exceeds all SCTE Specifications*

### Construction for 3-Piece Hardline Connectors

- Heavy-duty 6262 alloy aluminum construction for superior corrosion resistance
- Gold iridite plating for added protection
- Ultraviolet-resistant EPDM O-Rings
- Antigalling and long-life lubricant
- Contacts: brass with tin plate for long life, impervious to aging and extreme environmental conditions
- Withstands 40 PSIG pressurization
- External 5/8-24 mounting threads



## 3-Piece Hardline Connectors

### Pin Connector



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	TPP500P3	1.000	TPP540QR	1.125	TPP565P3/TX	1.125	TPP500MC2	1.125
	TPP625P3	1.125	TPP715QR	1.250	TPP700P3/TX	1.250	TPP650MC2	1.250
	TPP750P3	1.250	TPP860QR	1.500	TPP840P3/TX	1.375	TPP750MC2	1.375
	TPP875P3	1.375						

### Splice Connector



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	TPS500P3	1.000	TPS540QR	1.125	TPS565P3/TX	1.125	TPS500MC2	1.125
	TPS625P3	1.125	TPS715QR	1.250	TPS700P3/TX	1.250	TPS650MC2	1.250
	TPS750P3	1.250	TPS860QR	1.500	TPS840P3/TX	1.375	TPS750MC2	1.375
	TPS875P3	1.375						

### "F" Female Connector (BAFF)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	TPP500BAFFP3	1.000	TPP540BAFFQR	1.125	TPP565BAFFP3/TX	1.125	TPP500BAFFMC2	1.125
	TPP625BAFFP3	1.125	TPP715BAFFQR	1.250	TPP700BAFFP3/TX	1.250	TPP650BAFFMC2	1.250
	TPP750BAFFP3	1.250	TPP860BAFFQR	1.500	TPP840BAFFP3/TX	1.375	TPP750BAFFMC2	1.375
	TPP875BAFFP3	1.375						

## 3-Piece Hardline Connectors

### "F" Male Connector (FM)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	TPP500FMP3	1.000	TPP540FMQR	1.125	TPP565FMP3/TX	1.125	TPP500FMMC2	1.125
	TPP625FMP3	1.125	TPP715FMQR	1.250	TPP700FMP3/TX	1.250	TPP650FMMC2	1.250
	TPP750FMP3	1.250	TPP860FMQR	1.500	TPP840FMP3/TX	1.375	TPP750FMMC2	1.375
	TPP875FMP3	1.375						

### Extension Connector (available in 3, 6, and 9 inch lengths)



Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	TPP500EXTP3	1.000	TPP540EXTQR	1.125	TPP565EXTP3/TX	1.125	TPP500EXTMC2	1.125
	TPP625EXTP3	1.125	TPP715EXTQR	1.250	TPP700EXTP3/TX	1.250	TPP650EXTMC2	1.250
	TPP750EXTP3	1.250	TPP860EXTQR	1.500	TPP840EXTP3/TX	1.375	TPP750EXTMC2	1.375
	TPP875EXTP3	1.375						

### Cable Terminator

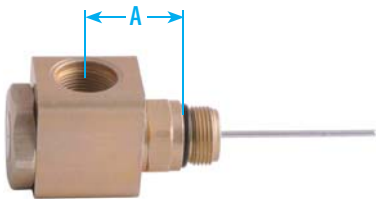


Cable Type	P3	HEX	QR	HEX	P3/TX	HEX	MC2	HEX
PPC Part #	TPP500TRP3	1.000	TPP540TRQR	1.125	TPP565TRP3/TX	1.125	TPP500TRMC2	1.125
	TPP625TRP3	1.125	TPP715TRQR	1.250	TPP700TRP3/TX	1.250	TPP650TRMC2	1.250
	TPP750TRP3	1.250	TPP860TRQR	1.500	TPP840TRP3/TX	1.375	TPP750TRMC2	1.375
	TPP875TRP3	1.375						

# CP Series 90° and 180° Adapters

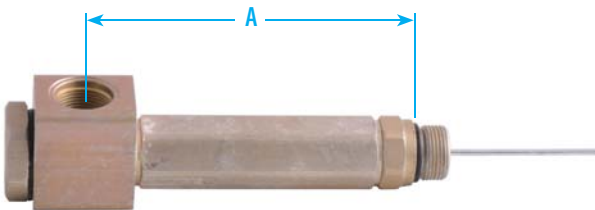
CP Series 90° and 180° adapters with set screws are especially designed for installations where space restrictions require nonaxial connections between cables and equipment. All adapters come standard with 2.15" length entry pins, weather-sealed joints and allow for entry of a .155 diameter center conductor.

## 90° Adapter



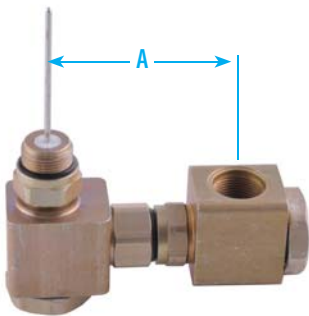
PPC Part #	Pin to Pin Length "A"
CP90	1.0 Inches (2.54 cm)

## 90° Adapter, Extended



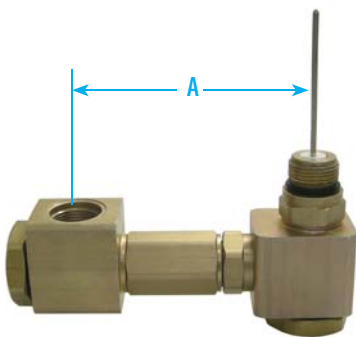
PPC Part #	Pin to Pin Length "A"
CP901.5	1.5 Inches (3.81 cm)
CP903	2.1 Inches (5.33 cm)
CP904.5	3.6 Inches (9.14 cm)

## 180° Adapter



PPC Part #	Pin to Pin Length "A"
CPPA180PD	2.3 Inches (5.84 cm)

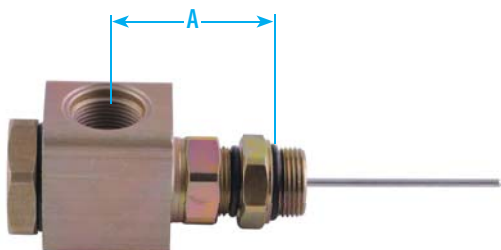
## 180° Adapter, Extended



PPC Part #	Pin to Pin Length "A"
CPPA1803	2.9 Inches (7.37 cm)
CPPA1804.5	4.4 Inches (11.18 cm)
CPPA1805	5.1 Inches (12.95 cm)

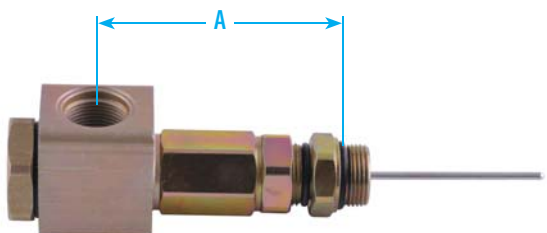
## CP Series 90° and 180° Adapters

### 90° Swivel Adapter



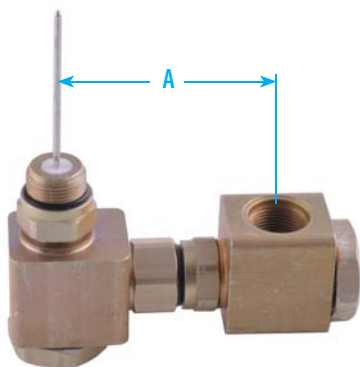
PPC Part #	Pin to Pin Length "A"
CP90SW	1.3 Inches (3.30 cm)

### 90° Swivel Adapter, Extended



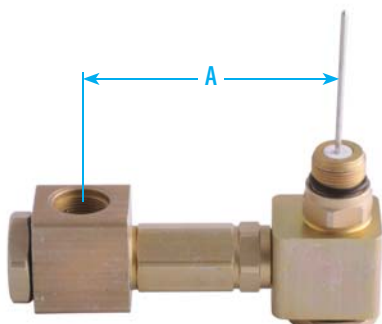
PPC Part #	Pin to Pin Length "A"
CP90SW3	2.5 Inches (6.35 cm)
CP90SW4.5	4.0 Inches (10.16 cm)

### 180° Swivel Adapter



PPC Part #	Pin to Pin Length "A"
CPPA180PDSW	2.3 Inches (5.84 cm)

### 180° Swivel Adapter, Extended

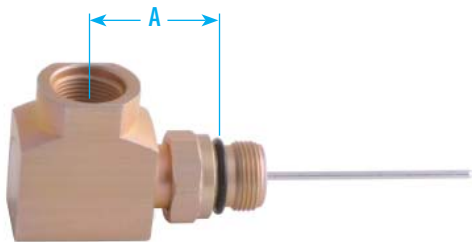


PPC Part #	Pin to Pin Length "A"
CPPA180SW3	2.9 Inches (7.37 cm)
CPPA180SW4.5	4.4 Inches (11.18 cm)
CPPA180SW5	5.1 Inches (12.95 cm)

## NX Series 90° and 180° Adapters

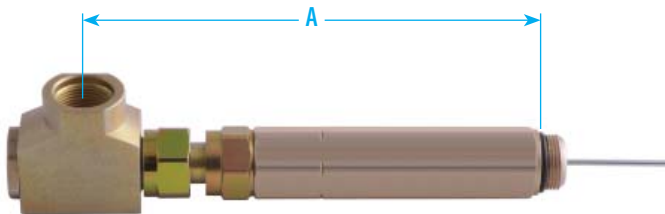
Integral 90° and 180° adapters with a self-seizing collet on the mating pin are designed for confined spaces encountered in today's systems. All adapters come standard with 2.125" length entry pins, built -in cutting guide, weather-sealed joints and optional test points.

### Integral 90° Mini Adapter



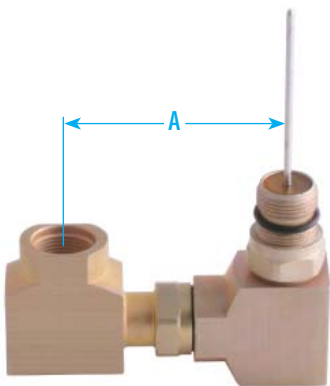
PPC Part #	Pin to Pin Length "A"
NX90	1.1 Inches (2.79 cm)
NX90T	1.1 Inches (2.79 cm), test point

### Integral 90° Mini Adapter, Extended



PPC Part #	Pin to Pin Length "A"
NX903	4.1 inches (10.41 cm)
NX904.5	5.6 inches (14.22 cm)
NX906	7.1 inches (18.03 cm)
NX90T3	4.1 inches (10.41 cm), test point
NX90T4.5	5.6 inches (14.22 cm), test point
NX90T6	7.1 inches (18.03 cm), test point

### Integral 180° Mini Adapter

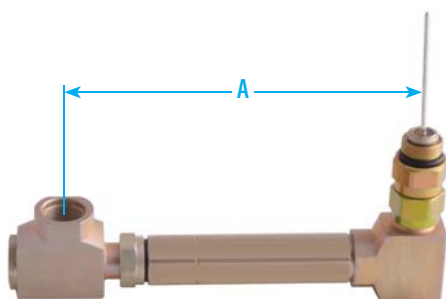


PPC Part #	Pin to Pin Length "A"
NX180	2.1 Inches (5.33 cm)
NX180T	2.1 Inches (5.33 cm), test point



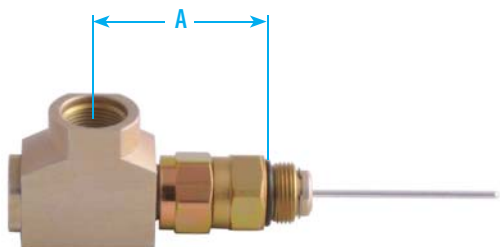
## NX Series 90° and 180° Adapters

### Integral 180° Mini Adapter, Extended



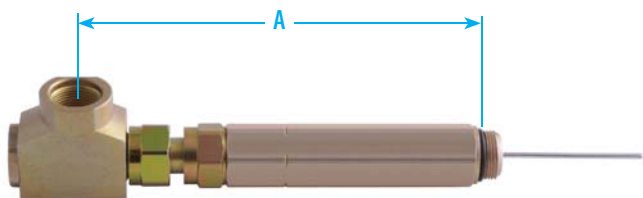
PPC Part #	Pin to Pin Length "A"
NX1803	5.0 Inches (12.70 cm)
NX1804.5	6.5 Inches (16.51 cm)
NX1806	8.0 Inches (20.32 cm)
NX180T3	5.0 Inches (12.70), test point
NX180T4.5	6.5 Inches (16.51), test point
NX180T6	8.0 Inches (20.32), test point

### Integral 90° Mini Adapter with Swivel Nut



PPC Part #	Pin to Pin Length "A"
NX90SW	1.8 Inches (4.5 cm)
NX90SWT	1.8 Inches (4.5 cm), test point

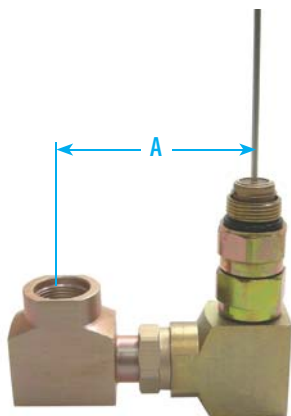
### Integral 90° Mini Adapter with Swivel Nut, Extended



PPC Part #	Pin to Pin Length "A"
NX90SW3	4.7 Inches (11.94 cm)
NX90SW4.5	6.2 Inches (15.75 cm)
NX90SW6	7.7 Inches (19.56 cm)
NX90SWT3	4.7 Inches (11.94 cm), test point
NX90SWT4.5	6.2 Inches (15.75 cm), test point
NX90SWT6	7.7 Inches (19.56 cm), test point

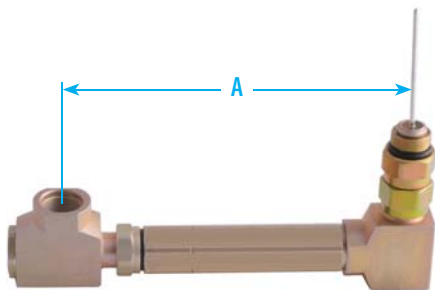
# NX Series 90° and 180° Adapters

## Integral 180° Mini Adapter with Swivel Nut



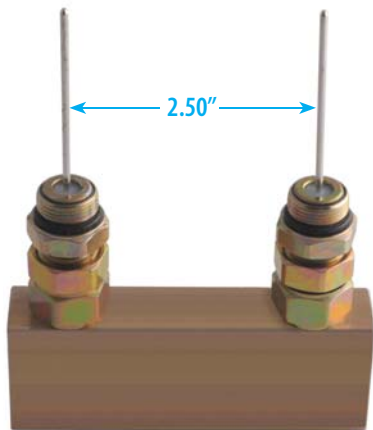
PPC Part #	Pin to Pin Length "A"
NX180SW	2.1 Inches (5.33 cm)
NX180SWT	2.1 Inches (5.33), test point

## Integral 180° Mini Adapter with Swivel Nut, Extended



PPC Part #	Pin to Pin Length "A"
NX180SW3	5.0 Inches (12.70 cm)
NX180SW4.5	6.5 Inches (16.51 cm)
NX180SW6	8.0 Inches (20.32 cm)
NX180SWT3	5.0 Inches (12.70), test point
NX180SWT4.5	6.5 Inches (16.51), test point
NX180SWT6	8.0 Inches (20.32), test point

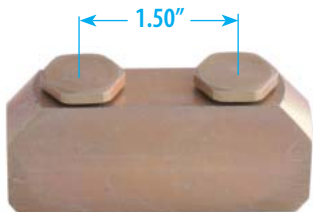
## 180° Adapter, Male to Male, Swivel



PPC Part #	Description
NXM1802.5	Male to male "KS" port adapter

## KS Adapters

### Splice Block



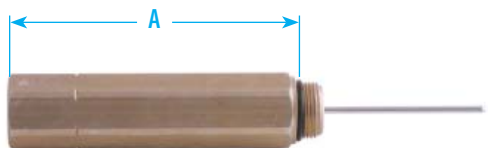
PPC Part #	Description
CSPB	Inline splice block , universal splice adapter for 2 pin type connectors
TSPB	Pedestal splice block, universal splice adapter for 2 pin type connectors

### Integral Pedestal Splice Block



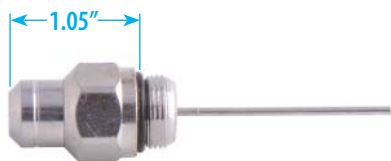
PPC Part #	Description
ISPB	Integrated pedestal splice block with self-seize pin. Installable to any pin connector. Provides 30dB structural return loss to 1 GHz and a current rating of 20 amps. No set screws, caps or test point.
ISPBT	Integrated pedestal splice block with self-seize pin. Installable to any pin connector. Provides 30dB structural return loss to 1 GHz and a current rating of 20 amps. Test point with dust cap, No set screws

### Field Installable Extension Connector



PPC Part #	Pin to Pin Length "A"	Description
EXT3	3.0 Inches (7.62 cm)	Field installable extension connectors provide additional length with self-seize pin. 1 GHz rating installable to any pin connector. Provides greater than -30 dB structural return loss and a current rating of 20 Amps.
EXT4.5	4.5 Inches (11.43 cm)	
EXT6	6.0 Inches (15.24 cm)	
EXT9	9.0 Inches (22.86 cm)	

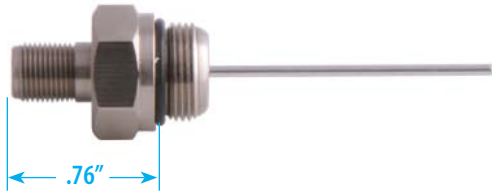
### "KS" Port Terminator



PPC Part #	Volt Rating	Description
UMTR6KV	6.0 KV	Universal male terminator for 5/8-24 entry ports. Blocks 60 cycle AC and terminates RF signals.
UMTRHV	2.5 KV	
UMTR	1.0 KV	

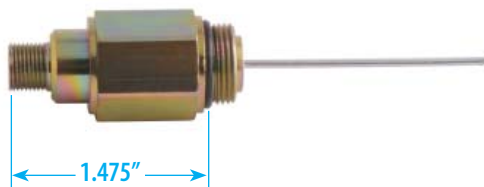
## KS Adapters

### "F" Female "KS" Adapter, 2 GHz



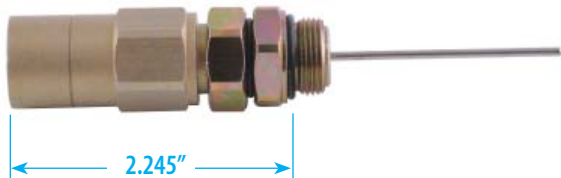
PPC Part #	Description
CF61G1A	The nickel plated, all brass adapter converts KS interface to "F" series female. The CF61G1A provides greater than -30 dB structural return loss to 2 GHz.

### "F" Female "KS" Adapter, Power Blocking



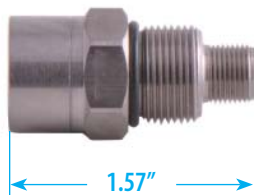
PPC Part #	Description
CF61625PB	All brass power blocking connector, KS port (housing) to "F" Female.

### "F" Female "KS" Male Adapter Power Blocking



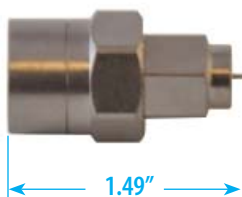
PPC Part #	Description
CKSFKSMPBAC	75 Ohm power blocking coupler, KS-female to KS-male swivel.

### BAFF Adapter, Connector to "F" Series Female, Brass



PPC Part #	Description
ICHBAFFKS/2	The NiTiN plated, all brass 2 GHz adapter converts any pin type connector to "F" series female. Greater than -30 dB structural return loss to 2 GHz.

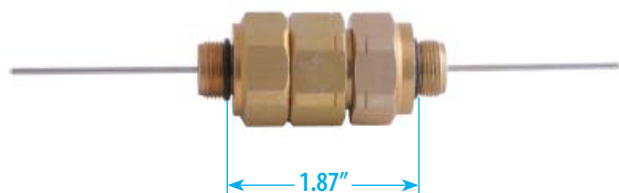
### Male "F" Adapter, Connector to "F" Series Male, Brass



PPC Part #	Description
ICHAFM/2	The NiTiN plated, all brass 2 GHz adapter converts any pin type connector to "F" series male. Greater than -30 dB structural return loss to 2 GHz.

## KS Adapters

### Housing to Housing Male Splice Adapter, Antirotational, Weather Sealed



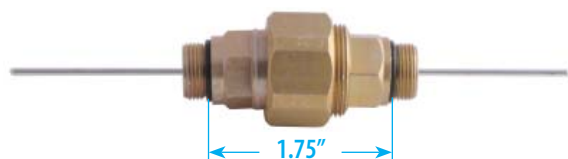
PPC Part #	Description
CKSKSARS	The 1 GHz housing to housing coupling connector is a non-rotational connector designed to permit the cascading of taps. Entry pins are fully weather sealed.

### Housing to Housing Male Splice Adapter, Pedestal Version



PPC Part #	Description
CKSKSSW	The 1 GHz housing to housing is a non-rotational connector designed to permit the cascading of taps. brass construction and reduced size is ideal for use in confined spaces.

### Housing to Housing Male Splice Adapter, Rotational



PPC Part #	Description
CKSKSULT	The 1 GHz housing to housing is a non rotational connector designed to permit the cascading of taps and comes standard with vibration resistant locking threads.

### Female Splice Coupler



PPC Part #	Description
CKSKSHFS	Field installable adapter enables splicing of any type of cable to any other type, using pin connectors. The CKSKSHFS provides greater than -30 dB structural return loss to 1 GHz and has a current rating of 20 Amps.



## Jumper cables for restricted spaces

Physical Characteristics		Specifications	
Minimum Bending Radius	6.0 cm	Return Loss	-30 dB nominal to 1 GHz
Material	Brass	Current rating	22 amps @ 90 volts
Plating	Tin/Nickel	Impedance	75 Ohms

### Integrated Male KS to Male KS



PPC Part #	Length	Description
JKSMKSM30	30 inch (76 cm)	Integrated Trunk & Distribution Jumper, male KS to male KS
JKSMKSM50	50 inch (127 cm)	Integrated Trunk & Distribution Jumper, male KS to male KS
JKSMKSM75	75 inch (190 cm)	Integrated Trunk & Distribution Jumper, male KS to male KS
JKSMKSM100	100 inch (254 cm)	Integrated Trunk & Distribution Jumper, male KS to male KS

### Integrated Female KS to Male KS



PPC Part #	Length	Description
JKSFKSM30	30 inch (76 cm)	Integrated Trunk & Distribution Jumper, female KS to male KS
JKSFKSM50	50 inch (127 cm)	Integrated Trunk & Distribution Jumper, female KS to male KS
JKSFKSM75	75 inch (190 cm)	Integrated Trunk & Distribution Jumper, female KS to male KS
JKSFKSM100	100 inch (254 cm)	Integrated Trunk & Distribution Jumper, female KS to male KS

### Integrated Female KS to Female KS



PPC Part #	Length	Description
JKSFKSF30	30 inch (76 cm)	Integrated Trunk & Distribution Jumper, female KS to female KS
JKSFKSF50	50 inch (127 cm)	Integrated Trunk & Distribution Jumper, female KS to female KS
JKSFKSF75	75 inch (190 cm)	Integrated Trunk & Distribution Jumper, female KS to female KS
JKSFKSF100	100 inch (254 cm)	Integrated Trunk & Distribution Jumper, female KS to female KS

## Preparation Tools



### Jacket Stripping Tool

PPC Part #	Description
JST	Fast and efficient removal of jackets from trunk and distribution coaxial cables, including oversized jackets and flooded cables.



### Cable Conductor Cleaner

PPC Part #	Description
CC100	For removing residual dielectric from the conductor of all sizes of trunk and distribution cables (without scratching or nicking).
CC200	The multiple V-shaped scraping notches on cleaning blades assure fast and effective removal of residual dielectric.



### MC2 Cable and Core & Strip Tools

PPC Part #	Description
CSTMC2	Specifically designed for trilogy MC2 cables. Double helix coring bit designed for fast and precise coring and stripping of polyethylene disc/air dielectric cable.  Heat treated, sheath-cutting blade produces a smooth beveled edge and can be replaced without the expense of replacing the entire coring bit.
CST	The multiple V-shaped scrapig notches on cleaning blades assure fast and effective removal of residual dielectric.



### QR Cable Core & Strip Tools

PPC Part #	Description
QRT	QRT kit includes a coring and stripping tool and a jacket stripping tool. Specifically designed for CommScope (QR) Quantum Reach Cable.



### All-In-One Tool

PPC Part #	Description
QCST	All-in-one tool accurately strips the jacket, cores out the dielectric, and strips and bevels the aluminum sheath.

## Preparation Tools

### P3/TX and QR cable

#### P3/T10 Cable Prep Tools

Cable Size	Part Number	Description
412P3/T10	CST412	Coring & Stripping Tool – 412
	CST412R	Coring & Stripping Tool – 412 Ratchet
	JST412T	Jacket Stripping Tool – 412
	CB114K	Coring Blade Replacement Kit – 412
	29104	Guide Sleeve Insert

Cable Size	Part Number	Description
500P3/T10	CST500	Coring & Stripping Tool – 500
	CST500R	Coring & Stripping Tool – 500 Ratchet
	JST500T	Jacket Stripping Tool – 500
	CB115K	Coring Blade Replacement Kit – 500
	29105	Guide Sleeve Insert

Cable Size	Part Number	Description
625P3/T10	CST625	Coring & Stripping Tool – 625
	CST625R	Coring & Stripping Tool – 625 Ratchet
	JST625T	Jacket Stripping Tool – 625
	CB116K	Coring Blade Replacement Kit – 625
	29106	Guide Sleeve Insert

Cable Size	Part Number	Description
750P3/T10	CST750	Coring & Stripping Tool – 750
	CST750R	Coring & Stripping Tool – 750 Ratchet
	JST750T	Jacket Stripping Tool – 750
	CB117K	Coring Blade Replacement Kit – 750
	29111	Guide Sleeve Insert

Cable Size	Part Number	Description
875P3/T10	CST875	Coring & Stripping Tool – 875
	CST875R	Coring & Stripping Tool – 875 Ratchet
	JST875T	Jacket Stripping Tool – 875
	CB118K	Coring Blade Replacement Kit – 875
	29112	Guide Sleeve Insert

#### QR Cable Prep Tools

Cable Size	Part Number	Description
320QR	QRT320	Coring, Stripping & Jacket Removing Tool
	QRT320QR	Ratchet –Coring, Stripping & Jacket Removing Tool
	CB164K	Coring Blade Replacement Kit
	35114	Guide Sleeve Insert
	CB6667	Replacement Jacket Stripping Blade

Cable Size	Part Number	Description
500QR	QRT500	Coring, Stripping & Jacket Removing Tool
	QRT500R	Ratchet –Coring, Stripping & Jacket Removing Tool
	CB130K	Coring Blade Replacement Kit
	33404	Guide Sleeve Insert
	CB6667	Replacement Jacket Stripping Blade

Cable Size	Part Number	Description
540QR	QRT540	Coring, Stripping & Jacket Removing Tool
	QRT540R	Ratchet –Coring, Stripping & Jacket Removing Tool
	CB143K	Coring Blade Replacement Kit
	33787	Guide Sleeve Insert
	CB6667	Replacement Jacket Stripping Blade

Cable Size	Part Number	Description
715QR	QRT715	Coring, Stripping & Jacket Removing Tool
	QRT715R	Ratchet –Coring, Stripping & Jacket Removing Tool
	CB159K	Coring Blade Replacement Kit
	34663	Guide Sleeve Insert
	CB6667	Replacement Jacket Stripping Blade

Cable Size	Part Number	Description
860QR	QRT860	Coring, Stripping & Jacket Removing Tool
	QRT860QR	Ratchet –Coring, Stripping & Jacket Removing Tool
	CB127K	Coring Blade Replacement Kit – 412
	33371	Guide Sleeve Insert
	CB6667	Replacement Jacket Stripping Blade

## Preparation Tools

### TX, MC2 and Power-Feed

#### TX

Cable Size	Part Number	Description
565TX	CST565TX	Coring & Stripping Tool – 565
	CST565TXR	Coring & Stripping Tool – 565 Ratchet
	JST565TX	Jacket Stripping Tool – 565
	CB146K	Coring Blade Replacement Kit – 565
	29108	Guide Sleeve Insert

Cable Size	Part Number	Description
700TX	CST700TX	Coring & Stripping Tool – 700
	CST700TXR	Coring & Stripping Tool – 700 Ratchet
	JST700TX	Jacket Stripping Tool – 700
	CB137K	Coring Blade Replacement Kit – 700
	33847	Guide Sleeve Insert

Cable Size	Part Number	Description
840TX	CST840	Coring & Stripping Tool – 840
	CST840XTR	Coring & Stripping Tool – 840 Ratchet
	JST840TX	Jacket Stripping Tool – 840
	CB138K	Coring Blade Replacement Kit – 840
	29109	Guide Sleeve Insert

#### CommScope Power-Feeder and Times Fiber T10 Power 20 and 50 Cable

Cable Size	Part Number	Description
625PF	CST625PF	Coring & Stripping Tool – 565
	CST625PFR	Coring & Stripping Tool – 565 Ratchet
	CB201K	Coring Blade Replacement Kit – 565
	29106	Guide Sleeve Insert

Cable Size	Part Number	Description
62520	CST62520	Coring & Stripping Tool – 700
	CST62520R	Coring & Stripping Tool – 700 Ratchet
	CB203K	Coring Blade Replacement Kit – 700
	29106	Guide Sleeve Insert

Cable Size	Part Number	Description
62550	CST62550	Coring & Stripping Tool – 840
	CST62550R	Coring & Stripping Tool – 840 Ratchet
	CB200K	Coring Blade Replacement Kit – 840
	29106	Guide Sleeve Insert

#### MC<sup>2</sup>

Cable Size	Part Number	Description
650MC2	CST650MC	Coring & Stripping Tool
	CST650MCR	Ratchet – Coring & Stripping Tool
	JST650MC	Jacket Stripping Tool
	CB133K	Coring Blade Replacement Kit
	33771-3	Guide Sleeve Insert

Cable Size	Part Number	Description
750MC2	CST750MC	Coring & Stripping Tool
	CST750MCR	Ratchet – Coring & Stripping Tool
	JST750MC	Jacket Stripping Tool
	CB134K	Coring Blade Replacement Kit
	33771-4	Guide Sleeve Insert

#### Accessories for CST Tools

Cable Size	Ratchet Handle	Drill Adapter	Sheath Cutting Blade
412-840	31250	31230	CB60
860-1000	31275	31235	CB60
1160	31275	31235	CB26

#### Center Conductor Strip Stops for CST Tools

Part Number	Strip Length (inches)
32980	1.000
33973	1.125
32983	1.250
32982	1.500
33959	1.5625
32984	1.6875

# Traps & Filters





As the acknowledged technology leader in the CATV Traps and Filters marketplace, PPC offers more than 1,000 types of Traps and Filters that are in use worldwide and provide critical path service in the most technologically advanced cable systems in the world. Our talented and dedicated engineers have revolutionized the industry's approach to design and construction in response to our customers' need for smaller physical size and improved electrical performance.



#### Basic Tier Traps

Today's digital QAM carriers demand greater plant integrity over past generation analog. PPC has several options that offer a basic level of service to subscribers without degrading digital phone or high speed internet.

#### Data Only and HSD

Subscribers that choose cable modem services without video require the installation of filters that prevent the reception of analog video services. PPC Data Only filters have many configurations to fit specific needs.



#### Line Conditioning

With increased bandwidth to 750 MHz and higher, maintaining the correct carrier levels at the subscriber is becoming more difficult. Adding to this problem is the increased number of TVs and other devices used. PPC has designed a series of filters to balance the full spectrum of carriers.

#### Pre-assembled Solution

PPC can provide a custom trap assembly for every situation. Pedestals with limited space and the risk of tap port breakage is driving the use of a short jumper between the trap and tap port.



## AK Assembly

Save time while reducing theft with factory assembled jumpers. PPC's AK series pre-assembled filter solution features a new patented one-piece security shield shown to reduce theft by up to 66%. AK series jumpers are pre-assembled at the factory saving up to 5 minutes per install and guaranteeing accurate assembly every time.

PPC can provide a custom trap assembly for every situation. Whether the assembly is needed in a pedestal application where space is at a premium, or in an aerial application, PPC custom trap assemblies will solve the situation.

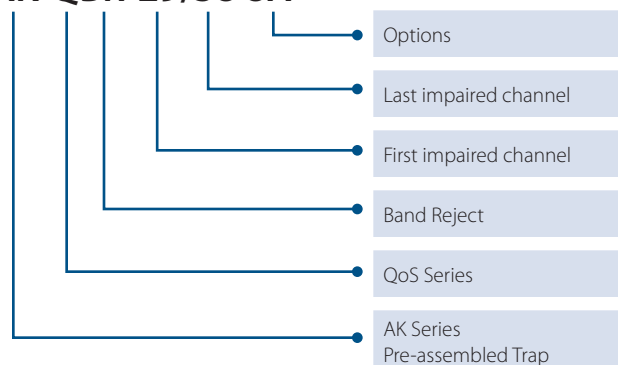


### Features

- Newly patented one-piece security shield reduces theft by 66%
- Pre-assembled at the factory saving installation time and ensuring accurate installation
- Dual female filter removes need for F-81; one last chance for ingress
- AquaTight® connector with integrated port seal ensures port seal is used correctly every time – keeping moisture out
- No more confusion over indoor/outdoor F-81 and port seals

### Sample Part#:

**AK-QBR-29/58 8A**



## QoS® Series QBR Band Reject Tiering Filters

PPC takes insertion loss and return loss seriously. Poor return loss can affect modem performance, QoS® Series QBR filters have an industry leading minimum return loss of -16 dB (typically -20 dB). QBR filters also have an insertion loss of -0.5 dB (typically -0.2 dB) which reduces the need to install costly drop amps. Drop cable, connectors splitters and ground blocks all have a -16 dB return loss. Why shouldn't your filters too?

### Features

- Minimum Return Loss of -16 dB (typically -20 dB)
- Minimum Insertion Loss of -0.5 dB (typically -0.2 dB)
- Laser engraved part number and production date
- Dual female interface or integrated 7/16" hex for flexibility (optional)
- Small physical size minimizes risk of port damage
- Precision four-point female seizure contact
- SCTE compliant connector interfaces
- Accommodates PPC port seal and WS-500
- Custom values available upon request



Available in  
AK Assembly

### Specifications

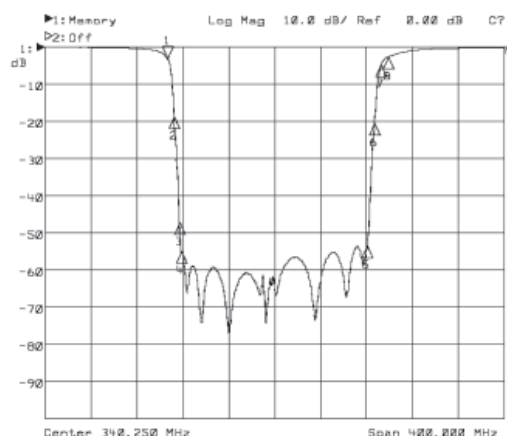
Minimum Operating

Frequency	1,002 MHz minimum
Impedance	75 Ohms (nominal)
Shielding Effectiveness	> 120 dB
Dimensions	Length = 2.2 in (5.6 cm) Diameter = 0.081 in (21 mm)
Surge	6 kV per SCTE IPS-TP-210

### Trap Specifications (Model Specific)

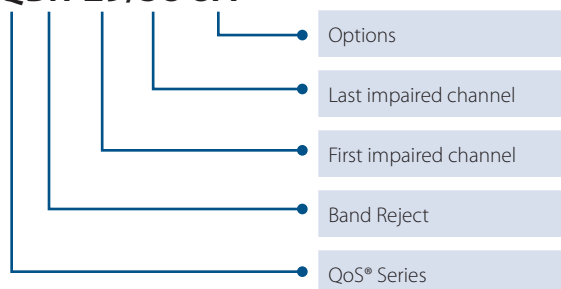
Model: **QBR-29/58-8A** Prep. By T.H. Date: 10/24/07  
 Passband insertion loss: 0.5 dB Minimum operating frequency: 1 GHz

Marker #	Freq. Desc.	Freq. (MHz)	Typical Loss (dB)	Limits (dB)
1	28 vid.	247.25	3.0	3.6 max.
2	29 vid.	253.25	18	12 min.
3	29 aud.	257.75	47	42 min.
4	30 vid.	259.25	54	50 min.
5	57 vid.	421.25	54	50 min.
6	58 vid.	427.25	19	16 min.
7	59 vid.	433.25	5.0	6.2 max.
8	60 vid.	439.25	2.7	3.5 max.



### Sample Part #

**QBR-29/58 8A**



# Mini Series CBR Band Reject Tiering Filters

Band reject filters remove a series of adjacent channels. Channel segmentation allows systems to offer alternate levels of service to subscribers. PPC’s “Caliber Band Reject” series filters provide electrical performance equivalent to traditional 10-pole configurations in a small, efficient package.

## Features

- Patented military-style hermetic glass-to-metal seals for long-term filter stability
- Small physical size minimizes risk of port damage
- Precision four-point female seizure contact
- SCTE compliant connector interfaces
- Accommodates PPC port seal WS-500
- Custom values available upon request



Available in  
AK Assembly

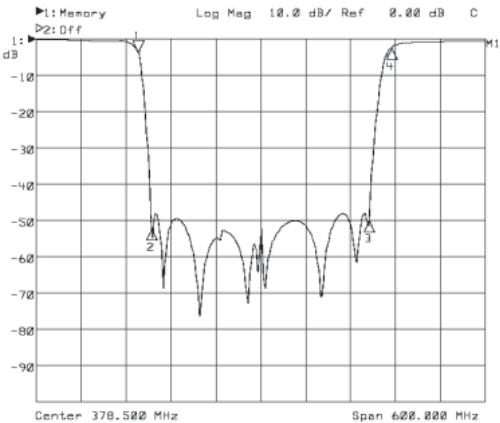
## Specifications

Minimum Operating	
Frequency	1,002 MHz minimum
Impedance	75 Ohms (nominal)
Shielding Effectiveness	> 120 dB
Dimensions	Length = 2.15 in (5.46 cm) Diameter = 0.81 in (21 mm)
Surge	6 kV per SCTE IPS-TP-210

## Trap Specifications (Model Specific)

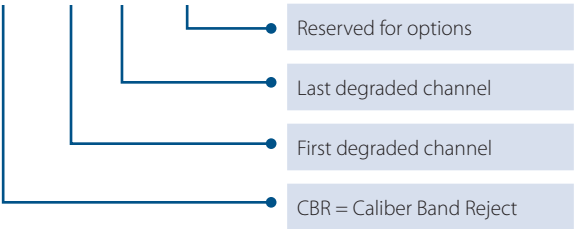
Model: **CBR-23/78**      Prep. By T.H.      Date: 11/02/04  
Passband insertion loss: 1 dB      Minimum operating frequency: 1 GHz

Marker #	Freq. Desc.	Freq. (MHz)	Typical Loss (dB)	Limits (dB)
1	13 aud.	215.75	3.7	5.5 max.
2	25 aud.	233.75	52	45 min.
3	74 vid.	523.25	50	45 min.
4	79 vid.	553.25	2.4	4.5 max.
5				
6				
7				
8				



## Sample Part#:

**CBR-23/78 HRC**



## Mini Series UBR Band Reject Tiering Filters

Band reject filters remove a series of adjacent channels. Channel segmentation allows systems to offer alternate levels of service to subscribers. PPC's "Ultra Band Reject" series filters provide electrical performance equivalent to traditional 12-pole configurations in a small, efficient package.

### Features

- Patented military-style hermetic glass-to-metal seals for long-term filter stability
- Small physical size minimizes risk of port damage
- Precision four-point female seizure contact
- SCTE compliant connector interfaces



Available in  
AK Assembly

### Specifications

Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 2.75 in (6.989 cm) Diameter = 0.81 in. (21 mm)
Surge	6 kV per SCTE IPS-TP-210

### Trap Specifications (Model Specific)

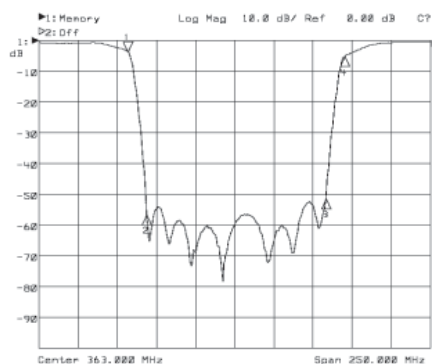
Model: **UBR-37/58**

Prep. By H.B. Date: 5/21/2008

Response: Actual

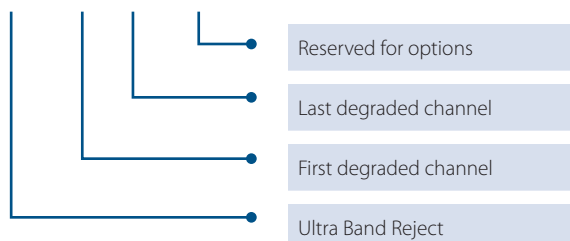
Minimum operating frequency: 1 Ghz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1	36 vid	295.25	3.8	5.0 max
2	38 vid	307.25	56	50 min
3	57 vid	421.25	51	50 min
4	59 vid	433.25	5.1	6.0 max
5				
6				
7				
8				



### Sample Part #:

**UBR-37/58 HRC**





## QoS® Series SBS Band Reject Tiering Filters

A few subscribers choose to pay for high-speed Internet or telephony without video services. To prevent unauthorized reception of analog video services, a filter is typically used. PPC's new SBS Data Only filter effectively removes the analog tier while ensuring no impairments are introduced over DOCSIS frequencies.

### Features

- Minimum -16 dB return loss (typically -20 dB)
- Minimum -1.2 dB insertion loss (typically -1.5 dB)
- Small physical size minimizes risk of port damage
- Precision four-point female seizure contact
- SCTE compliant connector interfaces

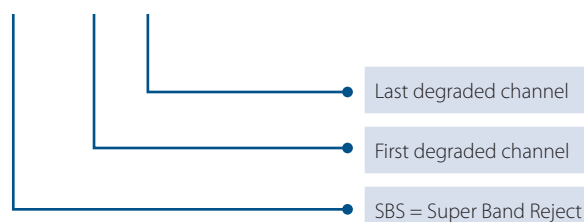


Available in  
AK Assembly

### Specifications

Frequency	Direct Current
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 2.15 in (5.46 cm) Diameter = 0.81 in (21 mm)
Surge	6 kV per SCTE IPS-TP-210

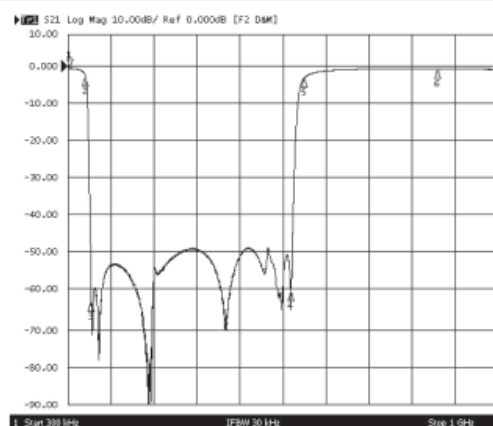
### Sample Part #: SBS-2/78



### Trap Specifications (Model Specific)

Model: **SBS-2/78** Prep. By S.S. Date: 5/21/08  
 Typical passband insertion loss: 0.6 dB Minimum operating frequency: 1 GHz

Marker #	Freq. Desc.	Freq. (MHz)	Typical Loss (dB)	Limits (dB)
1		5.0	0.6	
2		42	2.8	3.5 max.
3	2 vid.	55.25	64	45 min.
4	73 vid.	517.25	62	45 min.
5		550	3.0	3.5 max.
6		860	0.6	
7		1000	0.9	
8				



## The Silencer Series SNBR Wide Band Reject Filters

PPC introduces its new Wide Band Reject Filter designed to facilitate provision of high-speed, data-only service to cable system subscribers. The SNBR Wide Band Reject Filter removes the analog tier while passing downstream and upstream DOCSIS frequencies.

### Features

- 100% Surface Mount Technology for consistent performance
- Compact, single-piece construction
- Improved insertion loss over downstream pass band minimizing modem dropout
- Precision four-point female seizure contact
- Moisture-sealed connector interfaces
- SCTE compliant connector interfaces
- 7/16 hex allows for standard tool installation



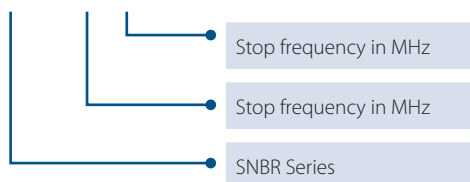
Available in  
AK Assembly

### Specifications

Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	1.94 in (4.93 cm) long 0.50 in (1.27 cm) diameter
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

**SNBR-2/78**



### Trap Specifications (Model Specific)

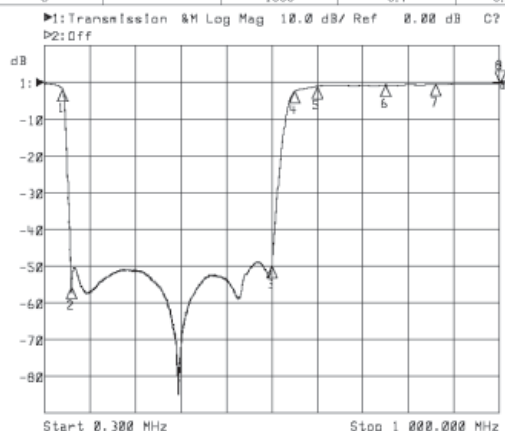
Model: **SNBR-2/78**

Prep. By S.S. Date: 5/21/2008

Response: Sample

Minimum operating frequency: 1 Ghz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		42	2.0	4.0 max.
2	3 Vid.	61.25	56	48 min.
3	70 Vid.	499.25	50	40 min.
4	79 Vid.	553.25	2.6	4.0 max.
5		600	1.1	1.1 ref.
6		750	0.8	0.8 ref.
7		860	0.6	0.6 ref.
8		1000	0.4	0.4 ref.



## Mini Series CBR Band Reject Tiering Filters

Band reject filters remove a series of adjacent channels. Channel segmentation allows systems to offer alternate levels of service to subscribers. PPC's "Caliber Band Reject" series filters provide electrical performance equivalent to traditional 10-pole configurations in a small, efficient package.

### Features

- Patented military-style hermetic glass-to-metal seals for long-term filter stability
- Small physical size minimizes risk of port damage
- Precision four-point female seizure contact
- SCTE compliant connector interfaces



Available in  
AK Assembly

### Specifications

Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 2.15 in (5.46 cm) Diameter = 0.81 in (21 mm)
Surge	6 kV per SCTE IPS-TP-210

### Trap Specifications (Model Specific)

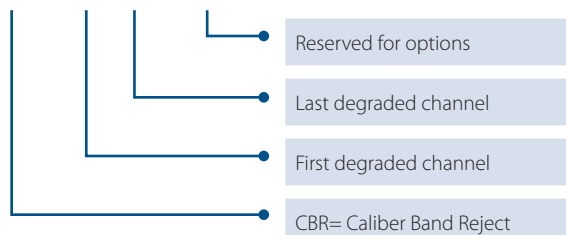
Model: **CBR-23/78** Prep. By T.H. Date: 11/02/04  
 Passband insertion loss: 1 dB Minimum operating frequency: 1 GHz

Marker #	Freq. Desc.	Freq. (MHz)	Typical Loss (dB)	Limits (dB)
1	13 aud.	215.75	3.7	5.5 max.
2	25 aud.	233.75	52	45 min.
3	74 vid.	523.25	50	45 min.
4	79 vid.	553.25	2.4	4.5 max.
5				
6				
7				
8				



### Sample Part #:

#### CBR-23/78 HRC



## Silencer Series Forward Path Attenuators

PPC's forward path attenuators provide a fixed level of attenuation within the downstream frequencies without affecting upstream frequencies. Typical applications include attenuation of over amplified signals generated by drop amplifiers at the first input.

### Features

- Small physical size minimizes risk of port damage
- 7/16" hex body allows for standard tool installation
- 100% Surface Mount Technology for consistent performance
- Precision four-point female seizure contact
- Moisture-sealed connector interfaces
- SCTE compliant connector interfaces

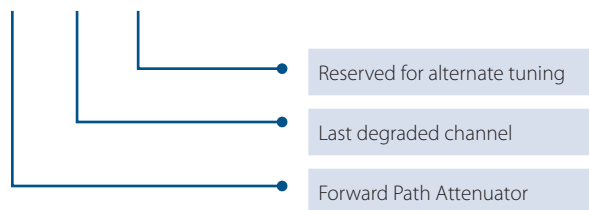


### Specifications

Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 2.75 in (6.989 cm) Diameter = 0.81 in (21 mm)
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

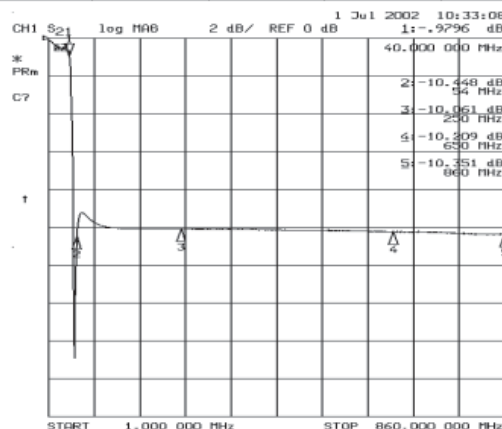
**FPA10-54**



### Trap Specifications (Model Specific)

Model: **FPA10-54** Prep. By B.O. Date: 07/01/02  
Response: Sample Minimum operating frequency: 860 Mhz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		40	1.0	1.5 max.
2		54	10.4	10±1.0
3		250	10.0	10±.7
4		650	10.2	10±.7
5		860	10.3	10±.7



## The Silencer Series EQF Equalizers

With the introduction of digital video, most set-top manufacturers specify a maximum slope factor in order to function properly. PPC's equalizers provide a correction to excessive cable loss and passive devices without affecting return frequencies.

### Features

- Small physical size minimizes risk of port damage
- 7/16" hex allows for standard tool installation
- 100% Surface Mount Technology for consistent performance
- Precision four-point female seizure contact
- Moisture-sealed connector interfaces

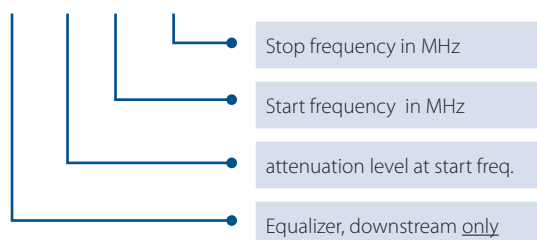


### Specifications

Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 1.915 in (4.86 cm) Diameter = .50 in (1.27 cm)
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

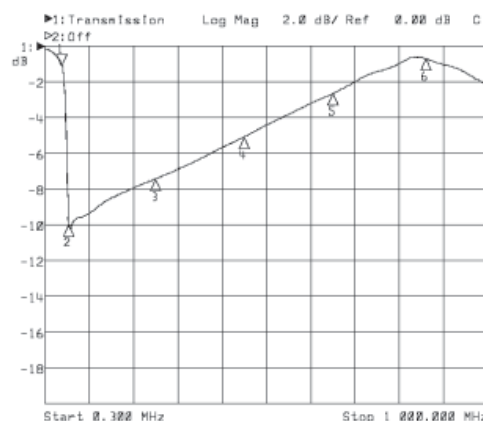
**EQF10-54/860**



### Trap Specifications (Model Specific)

Model: **EQF10-54/860** Prep. By B.O. Date: 03/26/02  
 Response: Sample Minimum operating frequency: 860 Mhz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		40	1.5	2.0 max.
2		55.25	10.1	10±1.0
3		250	7.5	7.5±0.5
4		450	5.0	5.0±0.5
5		650	2.5	2.5±0.5
6		860	0.7	1.0 max.



## The Silencer Series CS Cable Simulators

PPC's cable simulators are used to correct excessive positive tilt. Typical applications include signal input correction for digital set-top converters and head-end equipment applications.

### Features

- Small physical size minimizes risk of port damage
- 7/16" hex allows for standard tool installation
- 100% Surface Mount Technology for consistent performance
- Precision four-point female seizure contact
- Moisture-sealed connector interfaces
- SCTE compliant connector interfaces



### Specifications

Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 1.65 in (4.19 cm) Diameter = .50 in (1.27 cm)
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

#### CS4-860



Operating frequency in MHz

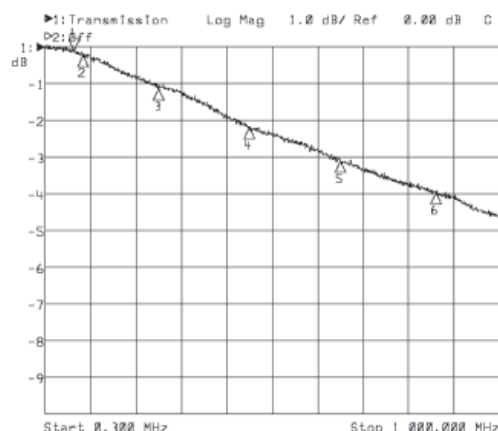
Level of attenuation in dB

CS = Cable Simulator

### Trap Specifications (Model Specific)

Model: **CS4-860** Prep. By B.O. Date: 8/24/01  
Response: Sample Minimum operating frequency: 860 Mhz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		65	0.1	0.5 max.
2		85	0.2	0.7 max.
3		250	1.1	1.2±.5
4		450	2.2	2.1±.5
5		650	3.1	3.0±.5
6		860	4.0	4.0±.5





## ATP Series Ultra-Precision Attenuator

In today's marketplace, PVRs, Digital set-tops, VoIP, HSD, and a TV in every room is placing a strain on CATV signal levels. The ATP Series is designed to provide accurate signal levels to each device connected to the drop.

### Features & Benefits

- Small physical size minimizes risk of port damage
- 7/16" hex body allows for standard tool installation
- 100% Surface Mount Technology for consistent performance
- Moisture sealed one-piece construction
- Direct mechanical ground
- Easy to read numbered labeling comes standard with optional color coding available
- Extremely Tight tolerance (.25 dB)
- Good return loss (greater than 18 dB)
- Precision four-point female seizure contact



### Specifications

Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 1.65 in (4.19 cm) Diameter = 0.5 in (1.27 cm)
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

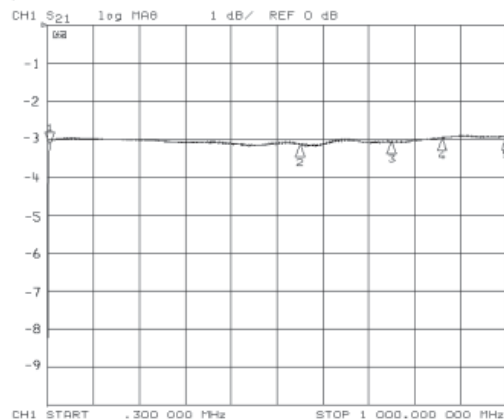
**ATP3-1000**

- Value in dB (1 through 20)
- Attenuator, Precision

### Trap Specifications (Model Specific)

Model: **ATP3-1000** Prep. By B.O. Date: 08/04/03  
 Response: Sample Minimum operating frequency: 1 Ghz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		5	3.1	3.0±0.3
2		550	3.1	3.0±0.25
3		750	3.0	3.0±0.25
4		860	3.0	3.0±0.25
5		1000	2.9	3.0±0.25



## Step Attenuators

PPC's Step Attenuators provide a fixed level of flat attenuation within the upstream frequencies only. Low value taps produce the majority of ingress and trouble calls within a typical HFC network. This is due to the lack of sufficient reverse attenuation found in higher-value taps. Applied directly to the tap port, PPC Step Attenuators provide unity gain with all cable modems and other critical reverse transmission products like digital voice and high-speed Internet.

### Features

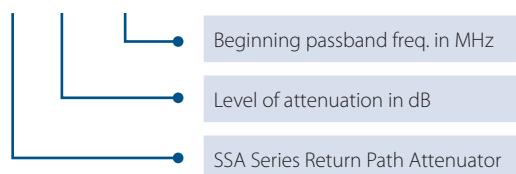
- **Ingress Noise Attenuation:** Attenuating the return path frequencies instructs the CMTS to raise the modem transmit level. This provides an improved signal to noise ratio; as the noise floor remains suppressed by the step attenuator.
- **Micro-reflection Attenuation:** Effectively reduces micro-reflections by two times the step attenuator value. Example: A 6 dB step attenuator will provide a 12 dB reduction in micro reflections.
- **Dynamic Range Enhancement for FP Laser:** Since the step attenuator reduces the ingress noise, the FP Laser performance margin is greatly improved, thereby reducing the risk for laser clipping.

### Specifications

Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 1.65 in (4.19 cm) Diameter = 0.5 in (1.27 cm)
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

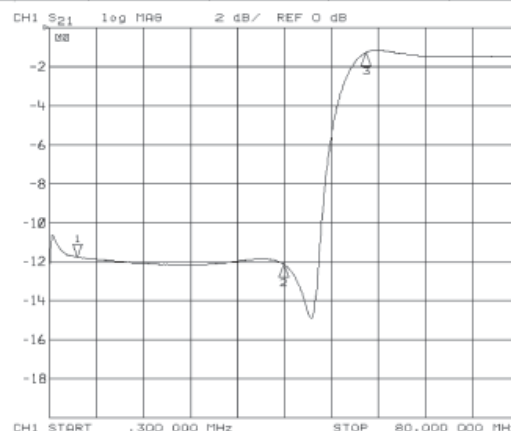
#### SSA12-54



### Trap Specifications (Model Specific)

Model: **SSA12-54** Prep. By B.O. Date: 08/12/04  
 Response: Sample Minimum operating frequency: 1 Ghz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		5.0	11.8	12±1.0
2		40.0	12.1	12±1.0
3		54.0	1.3	1.5 max



## The Silencer Series SHP High Pass Filters

PPC's High Pass Filters are used to isolate upstream frequencies for subscribers who do not require return path services. High Pass Filters also prevent ingress noise from propagating back to the node and disrupting active upstream services. PPC's SHP series filters represent a major technological breakthrough by being the first to offer such outstanding electrical performance in the compact Silencer® Series packaging.



### Features & Benefits

- Small physical size minimizes risk of port damage
- 7/16" hex allows for standard tool installation
- 100% Surface Mount Technology for consistent performance
- Precision four-point female seizure contact
- Moisture-sealed connector interfaces
- SCTE compliant connector interfaces

### Specifications

Frequency	1,002 MHz minimum
Impedance	75 Ohms
Shielding Effectiveness	> 120 dB
Dimensions	Length = 1.65 in (4.19 cm) Diameter = 0.5 in (1.27 cm)
Surge	6 kV per SCTE IPS-TP-210

### Sample Part #:

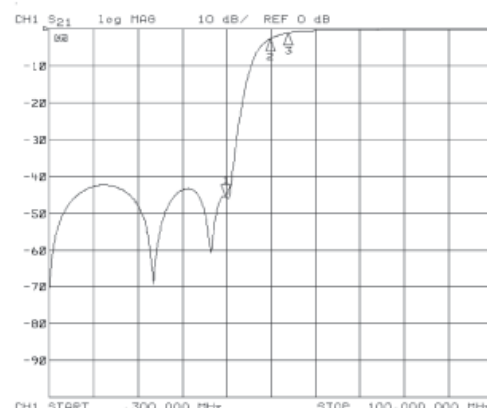
#### SHP3-50

- Beginning passband freq. in MHz
- Number of poles
- Silencer Series High Pass

### Trap Specifications (Model Specific)

Model: **SHP3-50** Prep. By B.O. Date: 08/01/06  
 Response: Actual Minimum operating frequency: 1 GHz

Marker #	Freq. Desc.	Freq. Mhz	Typ. Loss(dB)	Limits(dB)
1		40	45	40 min.
2		50	2.8	3.5 max.
3		54	1.2	1.5 max.



## Installation Tools



### Torque Wrenches

TW 207	7/16"	20 inch-lb (2.26 NM), tap port rethreader on end of tool
TW 307	7/16"	30 inch-lb (3.39 NM), tap port rethreader on end of tool
TW 307 AH	7/16"	30 inch-lb (3.39 NM), angled head, tap port rethreader on end of tool
TW 307 AH-IT	7/16"	30 inch-lb (3.39 NM), angled head, connector insertion tool on end



### Security Shield Tools

S-200WS	Security shield wrench, used with WMS716 & MS716
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### Trap Tool

TST 500	Security sleeve wrench and trap installation tool
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# Terms and Conditions

\* **MINIMUM ORDER: \$100.00**

\* **PAYMENT TERMS: Net 30 days from date of invoice.**

\* **F.O.B. POINT: EXW Shipping Point**

## PROVISIONS:

1. No modification of the terms hereof shall be effective unless made in writing and signed by both parties. Acceptance of this Agreement must be made on its exact terms, and if additional or different terms are proposed by the Buyer, the Buyer's response shall constitute a counter offer, at PPC approval.

2. Payment terms are net 30 days, after rendering PPC Invoice.

3. Delivery terms are F.O.B. at PPC Facility in Syracuse, New York. Risk of loss shall pass to Buyer upon delivery to carrier at PPC plant. Dates of delivery are determined from the date PPC acceptance of any order or orders by Buyer and are estimates of approximate dates of delivery, not a guaranty of a particular day of delivery. PPC shall not be liable for failure or delay in shipping products hereunder if such failure or delay is due to an act of God, fire, flood, sabotage, war, labor difficulties, accidents, riot, insurrection, act of any governmental authority, priorities granted at the request or for the benefit directly or indirectly of any government or agency thereof, shortage of raw materials, inability to meet current sales requirements, non-performance by vendors or subcontractors, or any cause reasonably beyond the control of PPC.

4. No agent, employee or representative of PPC has any authority to bind PPC to any affirmation, representation or warranty concerning the products sold under this Agreement and unless an affirmation, representation or warranty made by employee or representative is specifically included within this written Agreement, it is not part of the basis of the bargain and shall not be enforceable against PPC.

5. If the products to be prepared or manufactured according to Buyer's specifications, the Buyer shall indemnify PPC against any liability for product performance or patent or trademark infringement on account due to such preparations or manufacture.

6. Any tax imposed by Federal, State or other Governmental authority on the sale of the products referred to in this Agreement shall be paid by the Buyer in addition to the purchase price.

7. PPC warrants each product delivered pursuant to this Agreement shall be free of defects in design, material, and workmanship under the normal use and service for which the products are intended.

The obligation of PPC is limited to the correction, or replacement at its factory or, at PPC option, at the Buyer's facility, of any product defects provided:

(a) **LIMITED WARRANTY:** PPC warrants manufactured products to be free of defects under condition of normal use for ninety (90) days after delivery to the original Buyer. This warranty does not apply to products which have been disassembled or modified or subjected to condition exceeding the specifications or set ratings by PPC Engineering.

Within the 90 days after delivery to the original Buyer, any PPC product suspected to be defective should be returned to PPC. Upon verification of the sample defect, PPC will, at its option, repair or replace the defective unit(s) and return, freight collect, to the Buyer. In no event does PPC assume liability for incidental or consequential damages. This warranty is the extent of the obligation or liability assumed by PPC with respect to its products and no other warranty or guarantees are expressed or implied including suitability or fitness for the intended purpose of the product. PPC reserves the right to make design changes without notice on any of its manufactured products and without any obligation to make the same or similar changes to units previously manufactured.

(b) **RETURN OF MATERIAL:** Products will not be accepted for return without advance written approval or a verbal return authorization number issued from PPC Customer Service Department. All returns must be freight prepaid. Returned material will be subject to a restocking charge. Material not returned in a resalable condition will be held for thirty (30) days for the customer disposition and/or scrapped, and the appropriate scrap value will be credited to the customer's account. Appropriate manufacturer's warranties will apply to all products supplied by PPC but manufactured by others. This warranty is in lieu of all other warranties, expressed or implied, and does not apply to any products of PPC which may have been subjected to unauthorized repair or alteration or which have been subjected to misuse or abuse, and neither assumes or authorizes any person to assume for it any other liability in connection with its products. **PPC SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR OTHER TYPE DAMAGES RESULTING FROM THE USE OF ANY PPC PRODUCTS OTHER THAN THE LIABILITY STATED ABOVE. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE.**

8. Terms of payment shall be subject to approval of PPC Credit (Accounting) Department and in case of doubt arising at any time as to Buyer's financial responsibility, production may be stopped and shipments suspended until satisfactory assurances are received. PPC shall be under no obligation to make any shipment when Buyer is in default hereunder or under any other sales agreement between PPC and Buyer.

9. **Security for Payment.** To secure the payment of any unpaid balances the Buyer does hereby transfer, set over, grant, and convey to PPC a security interest in the products and each of the parts thereof delivered pursuant to this Agreement together with all replacement parts, additions, repairs and accessories incorporated thereto and/or hereafter affixed thereto; to have and to hold the said security interests in said products and each of the parts thereof forever provided however, if Buyer shall make or cause to be made according to the terms hereof, payment in full, in cash for the products and shall keep and perform the covenants and agreements herein contained, then this transfer shall be void; otherwise to remain in full force and effect.

10. **Attorney in Fact.** Buyer hereby irrevocably appoints PPC assignee its attorney in fact to file any financing statements or other documents and agreements to do what PPC or its assignee may deem necessary to continue to perfect the security interests created by this Agreement and to protect the products and each of the parts thereof.

11. PPC will comply with all applicable Federal, State and local laws and specifically represents that any products to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938 as amended.

12. This Agreement shall be governed by the laws of the State of New York. PPC has made every effort to assure the accuracy of the information contained in this document. We are, however, not responsible for any errors and/or omissions.

13. For any cancelled order, the customer will be liable for all charges incurred by PPC for costs associated with the manufacturing of the product up to the date of cancellation. This can be up to 100% of the value of the product based on the disposition of the materials at the time the order is cancelled. Trap/filter orders are subject to a 100% fee due to the customization of design for each part. In keeping with ongoing product improvement, we reserve the right to make product changes at any time without notice. We will be pleased to assist our customers in the proper selection of our product line, however, the final responsibility for assuring that the product selected is suitable for the application rests with the user. Prices and/or terms are subject to change without notice.





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