

# Wireless Infrastructure Products

**OptiFlex™ Hybrid Cables**

**Fiber Optic Trunk Cables**

**Ruggedized Fiber Jumpers**

**Fiber Patch Cables**

**Indoor DC Power Cables**

**Outdoor DC Power Cables**

**RF Connectors**

**RF Adapters and Tool Kits**

**RF Cable Assemblies**

**Low PIM Coaxial Cable Assemblies**

**Plenum Rated, Low PIM, Low Loss Coaxial Cable Assemblies**

**Low PIM Coaxial Adapters**

**Low PIM Power Splitters, Couplers and Termination Loads**



**Cell Site**



**Distributed Antenna Systems**



**Public Safety**



**Remote Control & Monitoring**



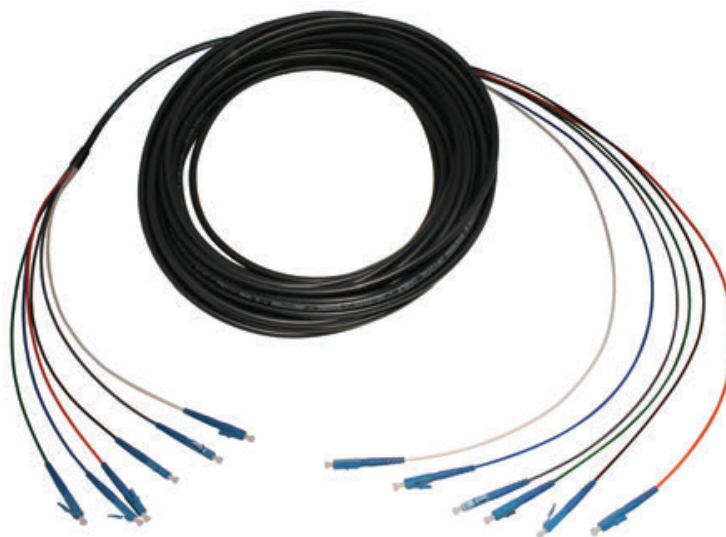
**Transportation & Utilities**



**Data Center**

## Features

- Available with 6-strand through 36-strand fibers
- Manufactured with Corning FREEDM® One cable
- Single-mode
- Available with LC or SC connectors
- UL1666 certified OFNR and FT-4 cable
- IP67 rated connectors
- 5.5mm to 16mm OD
- Indoor / outdoor temperature and water-resistant performance
- Factory terminated by Corning certified technicians to ensure maximum system performance
- 2 meter fanouts



6 STRAND: SINGLE-MODE	
Length	Part Number
10 feet	22M06201SM010X
50 feet	22M06201SM050X
75 feet	22M06201SM075X
100 feet	22M06201SM100X
150 feet	22M06201SM150X

Note: Available in other lengths: 22M06201SMxxxX where xxx indicates length in feet.

6 STRAND: MULTI-MODE	
Length	Part Number
10 feet	22D02101MM010X
50 feet	22D02101MM050X
75 feet	22D02101MM075X
100 feet	22D02101MM100X
150 feet	22D02101MM150X

Note: Available in other lengths: 22D02101MMxxxX where xxx indicates length in feet.

12 STRAND: SINGLE-MODE	
Length	Part Number
15 meter	RRH-12-SM-015M
50 meter	RRH-12-SM-050M
100 meter	RRH-12-SM-100M
150 meter	RRH-12-SM-150M
200 meter	RRH-12-SM-200M

Note: Available in other lengths: RRH-12-SM-xxxM where xxx indicates length in meters.

24 STRAND: SINGLE-MODE	
Length	Part Number
15 meter	RRH-24-SM-015M
50 meter	RRH-24-SM-050M
100 meter	RRH-24-SM-100M
150 meter	RRH-24-SM-150M
200 meter	RRH-24-SM-200M

Note: Available in other lengths: RRH-24-SM-xxxM where xxx indicates length in meters.

36 STRAND: SINGLE-MODE	
Length	Part Number
15 meter	RRH-36-SM-015M
50 meter	RRH-36-SM-050M
100 meter	RRH-36-SM-100M
150 meter	RRH-36-SM-150M
200 meter	RRH-36-SM-200M

Note: Available in other lengths: RRH-36-SM-xxxM where xxx indicates length in meters.

Manufactured by



Cables Unlimited  
Division of RF Industries

(800) 590-9965

(631) 563-6363

www.cables-unlimited.com

quotes@cables-unlimited.com



Manufactured in the USA



Cables Unlimited Certifications



ISO9001



IPC-A-610,  
IPC / WHMA-A-620



Underwriters Laboratories  
Recognized

## Features

- Fiber optic and DC power cables
- Factory terminated fiber by Corning certified technicians maximizes system performance
- Flexible copper tape shield serves as grounding function
- Can be deployed in lengths up to 550' with less than 10% voltage drop, based on 950 watt radios. (May vary with custom configurations.)
- Heat, moisture and UV resistant PVC outer jacket with direct burial capability
- Weatherized from end to end, insuring optimal performance in rugged environments



## Standard Configurations

For reference only. Contact Cables Unlimited for breakout and termination options.

Description	Part Number
6 conductor 10 AWG, 2 conductor 8 AWG, 18 strand single-mode (SM) fiber with LC connectors.	6A2B18SMLCXXXFT
2 conductor 10 AWG, 2 conductor 8 AWG, 2 conductor 6 AWG, 6 strand multi-mode (MM) fiber with LC connectors.	2A2B2C6MMSCXXXFT
4 conductor 10 AWG, 4 conductor 8 AWG, 12 strand single-mode (SM) fiber with LC connectors.	4A4B12SMLCXXXFT
2 conductor 8 AWG, 2 conductor 6 AWG, 6 strand multi-mode (MM) fiber with LC connectors.	2A4C06MMLCXXXFT

Note: XXX indicates length in feet

## Custom Configurations

Complete the checklist below and contact Cables Unlimited.

Variable	Options
Number of fibers	6 to 48
Single-mode or Multi-mode	SM or MM
AWG of wire conductors (power cables)	2, 4, 6, 8, 10, 12
Number of conductors (power cables)	2, 3, 4, 6, 8
Total length in feet	
<b>Breakout and Terminations – Side A (Tower Top)</b>	
Number of Remote Radio Heads	
Length in feet	
Fiber connector terminations	LC or SC
Power conductor terminations	
<b>Breakout and Terminations – Side B (Bottom/Equipment)</b>	
Length in feet	
Fiber connector terminations	LC or SC
Power conductor terminations	

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**CORNING**  
CAH Connections™  
Gold Program

Manufactured in the USA



Cables Unlimited Certifications



ISO9001



IPC-A-610,  
IPC / WHMA-A-620



Underwriters Laboratories  
Recognized



## Features

- IP66/67 rated harsh environment
- OM1 62.5/125
- -40 to +70 degrees celsius operation
- Strain relief with 56 pound pull strength
- Manufactured with Corning FREEDM® One cable
- Factory terminated by Corning certified technicians to ensure maximum system performance



Length	Part Number
5 meter	FTTA-LCDLCD-005M
10 meter	FTTA-LCDLCD-010M
50 meter	FTTA-LCDLCD-050M
100 meter	FTTA-LCDLCD-100M
150 meter	FTTA-LCDLCD-150M
200 meter	FTTA-LCDLCD-200M

*Note: Available in other lengths: FTTA-LCDLCD-xxxM where xxx indicates length in meters.*

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[www.cables-unlimited.com](http://www.cables-unlimited.com)

[quotes@cables-unlimited.com](mailto:quotes@cables-unlimited.com)



Manufactured in the USA



Cables Unlimited Certifications



ISO9001



IPC-A-610,  
IPC / WHMA-A-620



Underwriters Laboratories  
Recognized

## Corning Gold Program

- Cables Unlimited is a member of the Corning Cable Systems Cable Assembly House (CAH) Connections<sup>SM</sup> Gold Program.
- Patch cables manufactured by Cables Unlimited qualify for the Corning Cable Systems LANscape<sup>TM</sup> Extended Warranty Program<sup>SM</sup>, which provides a 25-year project warranty.
- The Corning CAH Program represents the highest standard for manufacturers of optical patch cables. Cables Unlimited has demonstrated a proven track record of manufacturing with a commitment to providing Corning Cable Systems materials, fiber optic cable and connectors, and adhering to recommended manufacturing processes.

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**CORNING**  
CAH Connections<sup>SM</sup>  
Gold Program



## Ordering Information

13-DIGIT PART NUMBER CONFIGURATOR		
Digit	Definition	Options
1	First connector	1=FC, 2=LC, 3=MTP, 4=SC, 5=SMA905, 6=SMA906, 7=ST
2	Second connector	1=FC, 2=LC, 3=MTP, 4=SC, 5=SMA905, 6=SMA906, 7=ST
3	Fiber strand type	S=Simplex, D=Duplex, M=Multi-strand
4, 5	Number of strands	01=Simplex, 02=Duplex, 04=4-strand, etc.
6	Jacket size	2=2mm, 3=3mm, 0=Multi-strand
7	Micron count	0=9.25um, 2=62.5um, 2=50um, 3=10gig
8	Jacket material	1=PVC, 2=Plenum
9, 10	Mode	MM=Multi-Mode, SM=Single-Mode
11, 12, 13	Length	Length in feet

**EXAMPLE:** Part Number: 11D02311MM010

Description: Fiber optic assembly, FC/FC connectors, duplex, 3mm jacket, 62.5um, PVC, multi-mode, 10 feet

1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	D	0	2	3	1	1	M	M	0	1	0

## Additional Configurations

Description	Part Number
ASSY, FIBER SINGLEMODE, 2 STRAND DUPLEX LC/LC 3 METER	22D02201SM003M
ASSY, FIBER SINGLE-MODE 2 STRAND DUPLEX LC/LC, 15 METER	22D02201SM015M
ASSY, FIBER MULTI-MODE 2 STRAND DUPLEX LC/LC, 1 METER	22D02221MM001M
ASSY, FIBER MM, 2 STRAND, SC/LC, 50UM, 2 STR, 50'	24D02101MM050X
ASSY, FIBER MM, 2 STRAND DUPLEX 50 UM PVC LC /ST 1 METER	27D02221MM001M
ASSY, SC/SC DUPLEX SM, 2 STRAND PVC APC, 2 METER	44D02201SM002MA
ASSY, SC/SC DUPLEX SM, 2 STRAND PVC APC, 10 METER	44D02201SM010MA
ASSY, MM DUPLEX, 2 STRAND, ST/ST, 62.5, 1M	77D02210MM001M
ASSY, MM DUPLEX, 2 STRAND, ST/ST, 62.5, 3M	77D02210MM003M
ASSY, MM DUPLEX, 2 STRAND, ST/ST, 62.5, 5M	77D02210MM005M

Manufactured in the USA



Cables Unlimited Certifications



ISO9001



IPC-A-610,  
IPC / WHMA-A-620



Underwriters Laboratories  
Recognized

# Indoor DC Power Cables

TelcoFlex® III meets or exceeds the following:

- UL Listed RHH/LS
- FT4 flame test
- VW-1
- ASTM B-33
- 600 Volts
- Physical and electrical tests in accordance with UL standard 44 requirements
- CSA AWM I B 105°C
- IEC 60674 and 60332
- RoHS / REACH compliant



## SPECIFICATIONS

Wire Size (AWG)	# Strands	Insulation Minimum Average Wall	Nominal Insulation Diameter	Overall OD (inches)	Weight /feet	Max DC Res. @ 20°C (ohms/m ft)	Description	Part Number
1/0	19	80	0.53	0.606	0.441	0.106	1/0, Non-Hal, KS24194 L3 Type, Gray	PWR-1/0-24194-GY
2/0	19	80	0.575	0.651	0.537	0.084	2/0, Non-Hal, KS24194 L3 Type, Gray	PWR-2/0-24194-GY
2	7	60	0.41	0.482	0.278	0.169	2 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-2A-24194-GY
4	7	60	0.35	0.414	0.188	0.269	4 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-4A-24194-GY
6	7	60	0.305	0.37	0.132	0.427	6 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-6A-24194-GY
8	7	60	0.27	0.327	0.093	0.678	8 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-8A-24194-GY
10	7	45	0.21	0.272	0.063	1.080	10 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-10A-24194-GY

*Also available in black, blue, green, red and with black tracer.*

Available through



RF Cable Assembly  
Division of RF Industries  
(800) 233-1728  
(858) 549-6340  
www.rfindustries.com  
rfi@rfindustries.com

and



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Manufactured in the USA



RF Industries (NASDAQ: RFIL) 7610 Miramar Rd, San Diego, CA 92126  
(858) 549-6340, (800) 233-1728, rfi@rfindustries.com, www.rfindustries.com

# Outdoor DC Power Cables

## Specifications

- UL approved for direct burial or sunlight applications
- Tinned copper braid and aluminum tape with drain wire
- 600 volts power tray cable
- Available per foot or bulk
- Labeled per ICEA standards
- Other wire colors available



Cable Type	Comp A	Comp B	Overall Cable	Nominal OD (inches)	Description	Part Number
7/C Composite	6/C 8 168/30 TC, .032 PVC, .006 Nylon	1/C 10 105/30 BC Ground Wire - Uninsulated	M/A Foil, 12 65/30 TC DW, 36 TC BS - 85%, .085 PVC JKT	.910	8-AWG, 6-conductor shielded, #8 tinned copper with #10 bare ground wire	86CS-8MC-10
3/C Composite	2/C 12 65/30 TC, .016 PVC, .005 Nylon	1/C 12 65/30 BC Ground Wire - Uninsulated	M/A Foil, 14 41/30 TC DW, 36 TC BS - 85%, .050 PVC JKT	.395	12-AWG, 2-conductor shielded, #12 AWG 65 strands tinned copper with #12 bare ground wire	122CS-12RB-12
3/C Composite	2/C 10 105/30 TC, .021 PVC, .005 Nylon	1/C 10 105/30 BC Ground Wire - Uninsulated	M/A Foil, 12 65/30 TC DW, 36 TC BS - 85%, .050 PVC JKT	.492	10-AWG, 2-conductor shielded, #10 AWG 105 strands tinned copper with #10 bare ground wire	102CS-10RB-10
3/C Composite	2/C 8 168/30 TC, .032 PVC, .006 Nylon	1/C 10 105/30 BC Ground Wire - Uninsulated	M/A Foil, 12 65/30 TC DW, 36 TC BS - 85%, .065 PVC JKT	.628	8-AWG, 2-conductor shielded, #8 AWG 168 strands tinned copper with #10 bare ground wire	82CS-8RB-10

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### Specifications

- Male to Female
- AISG Compliant (Antenna Interface Standards Group)
- Weatherproof
- Compatible with Andrew, Kathrein, Huawei, RFS and other brands
- RoHS Compliant



### SPECIFICATIONS

**Connectors** ..... 1 x 8 pin IEC 60130-9 male  
1 x 8 pin IEC 60130-9 female

**Construction** ..... Shielded  
3 x 20 AWG  
2 X 24 AWG (twisted pair, RS-485-A and -B)

**Protection Class** ..... IP67 (mated)

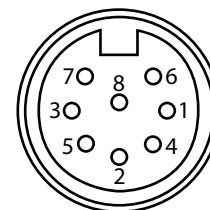
**Rated Current** ..... 5 A

**Temperature Range** ..... -40°C / 80°C

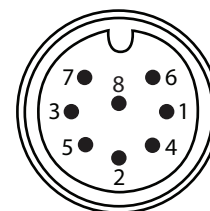
**Materials** ..... RoHS compliant

### PIN ASSIGNMENT

#### Female



#### Male



- 1 — +12V DC
- 2 — not used
- 3 — RS485 B
- 4 — not used
- 5 — RS485 A
- 6 — +24V DC
- 7 — DC return
- 8 — not used

Length: Meters	Length: Feet	Part Number
0.5	1.5	RF-RET-.5M
1	3.3	RF-RET-1M
2	6.5	RF-RET-2M
3	9.8	RF-RET-3M
5	16.4	RF-RET-5M
6	20.0	RF-RET-6M
10	32.8	RF-RET-10M
15	49.0	RF-RET-15M
20	65.6	RF-RET-20M
30	98.4	RF-RET-30M
40	131.2	RF-RET-40M
50	164.0	RF-RET-50M
60	196.9	RF-RET-60M
70	229.7	RF-RET-70M
80	262.0	RF-RET-80M
90	295.0	RF-RET-90M
100	328.0	RF-RET-100M

### Manufactured by

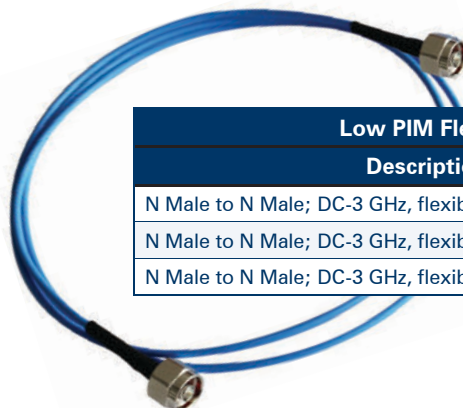


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## Low PIM .141" Flexible Semi-Rigid Cable Assemblies

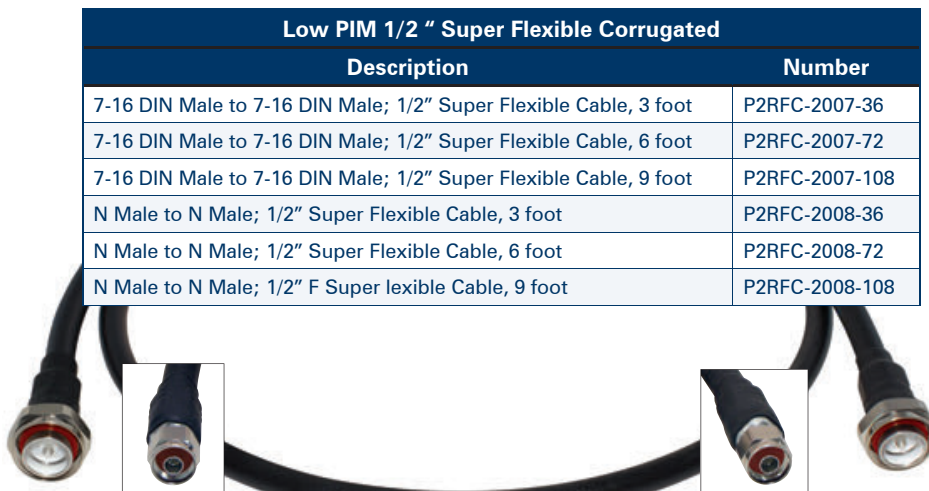
- Low PIM:  $\leq -145\text{dBc}$
- Operating Frequency: up to 3,000 MHz
- VSWR:  $\leq 1.20:1$  up to 2,400 MHz
- Available in custom lengths



Low PIM Flexible Semi-Rigid .141"		
Description		Number
N Male to N Male; DC-3 GHz, flexible semi-rigid .141", 3 foot		P2RFC-2000-36
N Male to N Male; DC-3 GHz, flexible semi-rigid .141", 6 foot		P2RFC-2000-72
N Male to N Male; DC-3 GHz, flexible semi-rigid .141", 9 foot		P2RFC-2000-108

## Low PIM 1/2" Super Flexible Corrugated Cable Assemblies

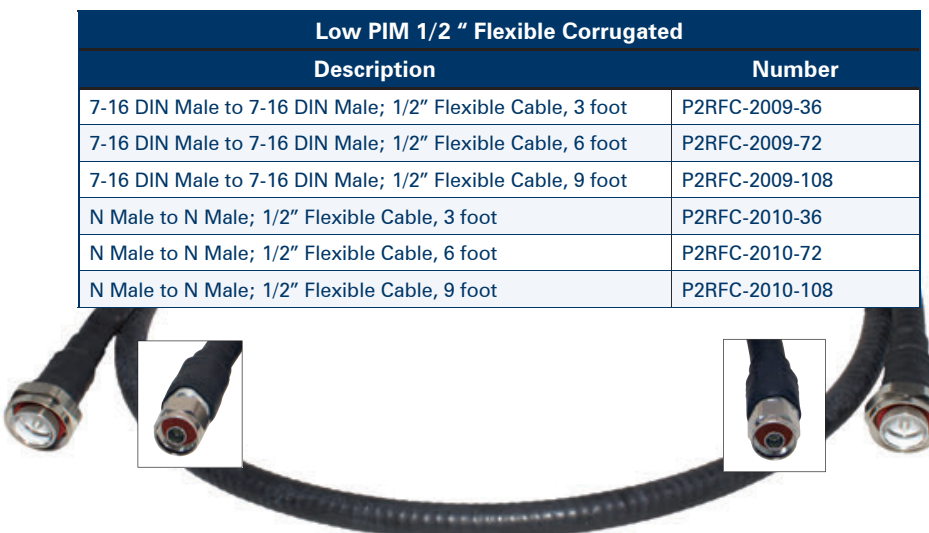
- Low PIM:  $\leq -155\text{dBc}$
- Operating Frequency: up to 3000 MHz
- VSWR:  $\leq 1.10:1$  up to 2,400 MHz  
 $\leq 1.15:1$  up to 3,000 MHz
- Helical copper tube construction
- Available in custom lengths



Low PIM 1/2" Super Flexible Corrugated		
Description		Number
7-16 DIN Male to 7-16 DIN Male; 1/2" Super Flexible Cable, 3 foot		P2RFC-2007-36
7-16 DIN Male to 7-16 DIN Male; 1/2" Super Flexible Cable, 6 foot		P2RFC-2007-72
7-16 DIN Male to 7-16 DIN Male; 1/2" Super Flexible Cable, 9 foot		P2RFC-2007-108
N Male to N Male; 1/2" Super Flexible Cable, 3 foot		P2RFC-2008-36
N Male to N Male; 1/2" Super Flexible Cable, 6 foot		P2RFC-2008-72
N Male to N Male; 1/2" F Super lexible Cable, 9 foot		P2RFC-2008-108

## Low PIM 1/2" Flexible Corrugated Cable Assemblies

- Low PIM:  $\leq -155\text{dBc}$
- Operating Frequency: up to 3000 MHz
- VSWR:  $\leq 1.10:1$  up to 2,400 MHz  
 $\leq 1.15:1$  up to 3,000 MHz
- Corrugated copper tube construction
- Available in custom lengths



Low PIM 1/2" Flexible Corrugated		
Description		Number
7-16 DIN Male to 7-16 DIN Male; 1/2" Flexible Cable, 3 foot		P2RFC-2009-36
7-16 DIN Male to 7-16 DIN Male; 1/2" Flexible Cable, 6 foot		P2RFC-2009-72
7-16 DIN Male to 7-16 DIN Male; 1/2" Flexible Cable, 9 foot		P2RFC-2009-108
N Male to N Male; 1/2" Flexible Cable, 3 foot		P2RFC-2010-36
N Male to N Male; 1/2" Flexible Cable, 6 foot		P2RFC-2010-72
N Male to N Male; 1/2" Flexible Cable, 9 foot		P2RFC-2010-108

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www.rfcables.com  
rfi@rfindustries.com

# Power Splitters, Hybrid Couplers & Termination Loads

## Specifications

- Low PIM
- Low VSWR
- Multiple configurations
- 50 Ohms impedance
- RoHS Compliant



Manufactured by



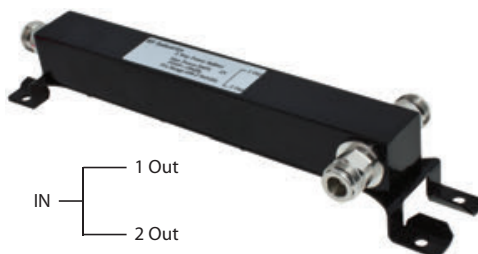
RF Connectors  
 Division of RF Industries

(800) 233-1728

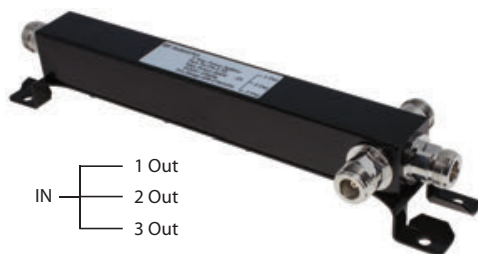
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www.rfcoaxconnectors.com

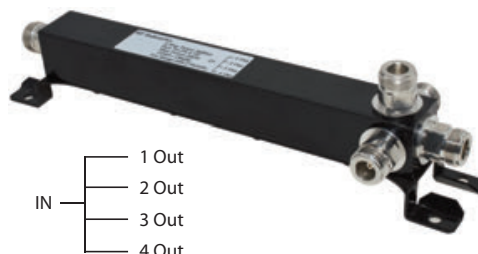
rfi@rfindustries.com



Description	2 Way Power Splitter, N Female
Part Number	RFPS-2-NF
Average Power	300 watts
Peak Power	1 Kw
VSWR	≤ 1.20
Frequency Range	698-2700 MHz
Insertion Loss	≤ 0.1 dB
Split Loss	3 dB
PIM3	≤ -155 dBc



Description	3 Way Power Splitter, N Female
Part Number	RFPS-3-NF
Average Power	300 watts
Peak Power	1 Kw
VSWR	≤ 1.25
Frequency Range	698-2700 MHz
Insertion Loss	≤ 0.2 dB
Split Loss	4.8 dB
PIM3	≤ -155 dBc



Description	4 Way Power Splitter, N Female
Part Number	RFPS-4-NF
Average Power	300 watts
Peak Power	1 Kw
VSWR	≤ 1.3
Frequency Range	698-2700 MHz
Insertion Loss	≤ 0.3 dB
Split Loss	6 dB
PIM3	≤ -155 dBc



Description	3dB Hybrid Coupler, N Female
Part Number	RFHC-3-NF
Frequency Range	698-2700 MHz
PIM3	≤ -155 dBc



Description	30w Termination Load, N Male
Part Number	RFLOAD-NM30
Average Power	30 watts
Frequency Range	0-3 GHz
PIM3	≤ -110 dBc



Description	50w Termination Load, N Male
Part Number	RFLOAD-NM50
Average Power Max	50 watts
Frequency Range	0-3 GHz
PIM3	≤ -110 dBc

# Plenum Rated, Low PIM, Low Loss Coaxial Cable Assemblies

**UL910 plenum rated, satisfying building code requirements**

**Low Passive Intermodulation Distortion (PIM)**

**Highly flexible for ease of installation**

**Excellent electrical performance to 6 GHz**

## Times Microwave SPP-250-LLPL™ Cable

- Corrugated copper outer conductor providing greater than 100dB RF Shielding
- Excellent PIM (typically -160dBc) for optimum system performance



*Images for illustration purposes*

## Times Microwave TFT-402-LF Cable

- Highly flexible flat braided outer conductor
- Cost effective alternative to semi-flexible solder braid cables
- Excellent PIM (typically -160dBc w/ Times connectors, -155dBc w/ RF Industries connectors)



*Images for illustration purposes*

## Install Confidence

- \* Times Microwave Cable
- \* Assembled by RF Industries
- \* 100% PIM Tested
- \* Fast Delivery
- \* Custom Lengths Available



Times Microwave SPP-250-LLPL™ Cable Plenum and PIM Rated Assemblies	Times Microwave Connectors	RF Industries Connectors
	Lengths: 39 inches (1 m) 78 inches (2 m)	Lengths: 39 inches (1 m) 78 inches (2 m)
N Male to N Male	P2RFC-2035-39 P2RFC-2035-78	P2RFC-2072-39 P2RFC-2072-78
N Male to 7-16 DIN Male	P2RFC-2044-39 P2RFC-2044-78	P2RFC-2073-39 P2RFC-2073-78
7-16 DIN Male to 7-16 DIN Male	P2RFC-2046-39 P2RFC-2046-78	P2RFC-2074-39 P2RFC-2074-78
N Male to 4.1-9.5 (Mini) DIN Male		P2RFC-2075-39 P2RFC-2075-78
4.1-9.5 (Mini) DIN Male to 4.1-9.5 (Mini) DIN Male		P2RFC-2076-39 P2RFC-2076-78
7-16 DIN Male to 4.1-9.5 (Mini) DIN Male		P2RFC-2077-39 P2RFC-2077-78



Times Microwave TFT-402-LF Cable Plenum and PIM Rated Assemblies	Times Microwave Connectors	RF Industries Connectors
	Lengths: 39 inches (1 m) 78 inches (2 m)	Lengths: 39 inches (1 m) 78 inches (2 m)
N Male to N Male	P2RFC-2034-39 P2RFC-2034-78	P2RFC-2064-39 P2RFC-2064-78
N Male to 7-16 DIN Male	P2RFC-2036-39 P2RFC-2036-78	P2RFC-2065-39 P2RFC-2065-78
7-16 DIN Male to 7-16 DIN Male	P2RFC-2037-39 P2RFC-2037-78	P2RFC-2066-39 P2RFC-2066-78
SMA Male to SMA Male	P2RFC-2038-39 P2RFC-2038-78	P2RFC-2067-39 P2RFC-2067-78
N Male to SMA Male	P2RFC-2039-39 P2RFC-2039-78	P2RFC-2068-39 P2RFC-2068-78
N Male to 4.1-9.5 (Mini) DIN Male		P2RFC-2069-39 P2RFC-2069-78
4.1-9.5 (Mini) DIN Male to 4.1-9.5 (Mini) DIN Male		P2RFC-2070-39 P2RFC-2070-78
7-16 DIN Male to 4.1-9.5 (Mini) DIN Male		P2RFC-2071-39 P2RFC-2071-78



RF Cable Assembly, Division of RF Industries  
(800) 233-1728 (858) 549-6340  
www.rfcables.com rfi@rfindustries.com

# Low PIM 7-16 DIN Coaxial Adapters

## 7-16 DIN to 7-16 DIN, and 7-16 DIN to N Adapter Features

- Low PIM:  $\leq -155\text{dBc}$
- Operating Frequency: Up to 5,500 MHz
- VSWR:  $\leq 1.10:1$  up to 5,500 MHz
- Available in silver or white bronze (tri-metal) plating
- Non-magnetic
- Stainless steel (SS) hex nuts on certain adapters



## LOW PIM 7-16 DIN ADAPTERS

### Male to Male Barrel



White Bronze (tri-metal) Plating, SS Coupling Nut  
**P2RFD-1650-SS**



Silver Plating  
**RFD-1650-2**



White Bronze (tri-metal) Plating, SS Coupling Nut  
**P2RFD-1652-SS**



Silver Plating  
**RFD-1652-2**

### Female to Female Barrel



White Bronze (tri-metal) Plating  
**P2RFD-1653-4**



Silver Plating  
**RFD-1653-2**



White Bronze (tri-metal) Plating, SS Coupling Nut  
**P2RFD-1660-SS**

### Male to Female Barrel



Silver Plating  
**RFD-1660-2**

### Female to Female Bulkhead



White Bronze Plating  
**P2RFD-1654-4**

## LOW PIM N TO 7-16 DIN ADAPTERS

### N Male to 7-16 DIN Male Barrel



White Bronze (tri-metal) Plating, SS Coupling Nut  
**P2RFD-1670-SS**



Silver Plating  
**RFD-1670-2**



White Bronze (tri-metal) Plating, SS Coupling Nut  
**P2RFD-1671-SS**



Silver Plating  
**RFD-1671-2**

### N Male to 7-16 DIN Female Barrel



White Bronze (tri-metal) Plating, SS Coupling Nut  
**P2RFD-1672-SS**



Silver Plating  
**RFD-1672-2**



White Bronze (tri-metal) Plating  
**P2RFD-1673-4**



Silver Plating  
**RFD-1673-2**

Manufactured by



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# Low PIM 4.1-9.5 (Mini) DIN Coaxial Adapters

## 4.1-9.5 (Mini) DIN Adapter Features

- Low PIM:  $\leq -155$  dBc
- Operating Frequency: up to 7.5 GHz
- Low VSWR:  $\leq 1.20:1$  up to 3 GHz
- Non-magnetic
- Non-tarnish white bronze (tri-metal) plating



## Kit Features

- Adapter protection
- Die-cut foam
- Zippered leatherette case
- Stands upright for compact storage

Manufactured by



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## LOW PIM 4.1-9.5 (MINI) DIN TO 4.1-9.5 (MINI) DIN ADAPTERS



4.1-9.5 Male to 4.1-9.5 Female  
**RFD-4195-MF**



4.1-9.5 Female to 4.1-9.5 Male  
**RFD-4195-MF-RA**

## LOW PIM 4.1-9.5 (MINI) DIN TO N ADAPTERS



4.1-9.5 Male to N Female  
**RFN-1046-4**



4.1-9.5 Male to N Male  
**RFN-1045-4**



4.1-9.5 Female to N Female  
**RFN-1047-4**



4.1-9.5 Female to N Male  
**RFN-1048-4**

## LOW PIM 4.1-9.5 (MINI) DIN TO 7-16 DIN ADAPTERS



4.1-9.5 Male to 7-16 Fem.  
**RFD-1681-4**



4.1-9.5 Male to 7-16 Male  
**RFD-1682-4**



4.1-9.5 Fem. to 7-16 Fem.  
**RFD-1683-4**



4.1-9.5 Fem. to 7-16 Male  
**RFD-1684-4**

# Low PIM DIN Adapter Kits

(All adapters sold separately. See above and previous page.)	4.1-9.5 (Mini) DIN to N	4.1-9.5 (Mini) DIN to 7-16 DIN	7-16 DIN to N	7-16 DIN to N
	White bronze (tri-metal) plating and stainless steel hex nuts			Silver Plated with knurling
Kit Part Number	RFA-4195-N	RFA-4195-716	P2RFA-4013-SS	RFA-4013
In-Series Adapters	4.1-9.5 Male to 4.1-9.5 Female	4.1-9.5 Male to 4.1-9.5 Female	7-16 Male to 7-16 Female	7-16 Male to 7-16 Female
	4.1-9.5 Male to 4.1-9.5 Female Right Angle	4.1-9.5 Male to 4.1-9.5 Female Right Angle	7-16 Male to 7-16 Female, Right Angle	7-16 Male to 7-16 Female, Right Angle
Between-Series Adapters	4.1-9.5 Male to N Female	4.1-9.5 Male to 7-16 Female	7-16 Male to N Female	7-16 Male to N Female
	4.1-9.5 Male to N Male	4.1-9.5 Male to 7-16 Male	7-16 Male to N Male	7-16 Male to N Male
	4.1-9.5 Female to N Female	4.1-9.5 Fem to 7-16 Female	7-16 Female to N Female	7-16 Female to N Female
	4.1-9.5 Female to N Male	4.1-9.5 Female to 7-16 Male	7-16 Female to N Male	7-16 Female to N Male



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415030

## Features

- Factory terminated and tested
- Dual-wall adhesive heat shrink on all connectors
- Labeling available for part numbers, logos, instructions, etc.
- Cables packaged to your specifications
- Colored heat shrink available
- All cables tested for continuity; sweeping available upon request
- Available with Times Microwave LMR®, equivalent cable manufactured by RF Industries or customer specified cable and/or connectors
- Plenum and fire retardant versions available



TIMES LMR® BRAND LOW LOSS CABLE	
Cable Assembly Description	Cable Assembly Number
N Male to N Male; LMR-240	RFW-5586-XX
N Male to N Male; LMR-400	RFW-5580-XX
SMA Male to SMA Male; LMR-240	RFW-5785-XX
SMA Male to SMA Male; LMR-400	RFW-5012-XX
QMA Right Angle Male to SMA Male; LMR-240	RFW-12367-XX
QMA Right Angle Male to QMA Right Angle Male; LMR-240	RFW-12474-XX

*Note: XX indicates length in inches.  
LMR is a registered trademark of Times Microwave Systems.*

RF INDUSTRIES BRAND LOW LOSS CABLE	
Cable Assembly Description	Cable Assembly Number
N Male to N Male; CBL-CU240	RFW-12696-XX
N Male to N Male; CBL-CU400	RFW-12602-XX
SMA Male to SMA Male; CBL-CU240	RFW-12647-XX
SMA Male to SMA Male; CBL-CU400	RFW-12718-XX
QMA Right Angle Male to SMA Male; CBL-CU240	RFW-12719-XX
QMA Right Angle Male to QMA Right Angle Male; CBL-CU240	RFW-12645-XX

*Note: XX indicates length in inches.*

## Manufactured by



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Assembled in the USA



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## Connector Features

- Brass or stainless steel bodies
- Nickel, gold, silver or tri-metal (white bronze) plating
- PTFE dielectrics
- Designed for a variety of cable sizes

## Kit Features

- Low PIM
- Brass bodies
- Gold, silver and tri-metal (white bronze) plating
- PTFE dielectrics
- Portable carrying cases



See complete product catalog offering at [www.rfcoaxconnectors.com](http://www.rfcoaxconnectors.com).

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## RF Connectors

Connector Description	Part Number
N Male for LMR®-400, silver plating	RFN-1006-3I
N Male for LMR-400, hex nut, 2 pc design	RFN-1006-9I
N Male for LMR-240, hex nut, 2 pc design	RFN-1006-9X
N Male for LMR-400, nickel plating	RFN-1006-I
N Male for LMR-400, hex nut, 2 pc design, tri-metal (white bronze) plating	RFN-1006-I-WB
N Male for LMR-240	RFN-1007-2SX
N Male, Right Angle for LMR-240	RFN-1009-X-04
N Female for LMR-400	RFN-1028-SI
N Male, Right Angle for LMR-400	RFN-1009-I-99
N Female for LMR-240	RFN-1029-SX
SMA Male for LMR-400	RSA-3000-I
SMA Male for LMR-240	RSA-3000-X
SMA Male, Right Angle for LMR-240	RSA-3010-X
TNC Male for LMR-240	RFT-1203-1X
QMA Male, Right Angle for LMR-240	RQA-5010-X

*LMR is a registered trademark of Times Microwave Systems.*



## Adapter and Tool Kits

Kit Description	Part Number
7-16 DIN Adapter Kit contains all combinations of DIN connector to N connector adapters, silver plated	RFA-4013
7-16 DIN Precision Grade Adapter Kit contains all combinations of DIN connector to N connector adapters, tri-metal (white bronze) plating with stainless steel coupling nuts	P2RFA-4013-SS
Heavy-Duty Crimp Handle and Die Kit	RFA-4009
15-Piece Mini-UHF Cellular Radio Coaxial Adapter Kit	RFA-4011
Unidapt™ Kit, 30 Piece "Build-Your-Own" Adapter Kit, silver plated	RFA-4024
Unidapt™ Kit, 30 Piece "Build-Your-Own" Adapter Kit, tri-metal (white bronze) plated	RFA-4024-WB
Mega Plus Unidapt™ Kit, 74 Piece "Build-Your-Own" Adapter Kit	RFA-4022

## RF Industries

RF Industries (NASDAQ: RFIL) has been a leading provider of wireless and wired solutions for the telecom and biomedical markets since 1979.



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