

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



Cell Site



Distributed Antenna Systems



Public Safety



Remote Control & Monitoring



Transportation & Utilities

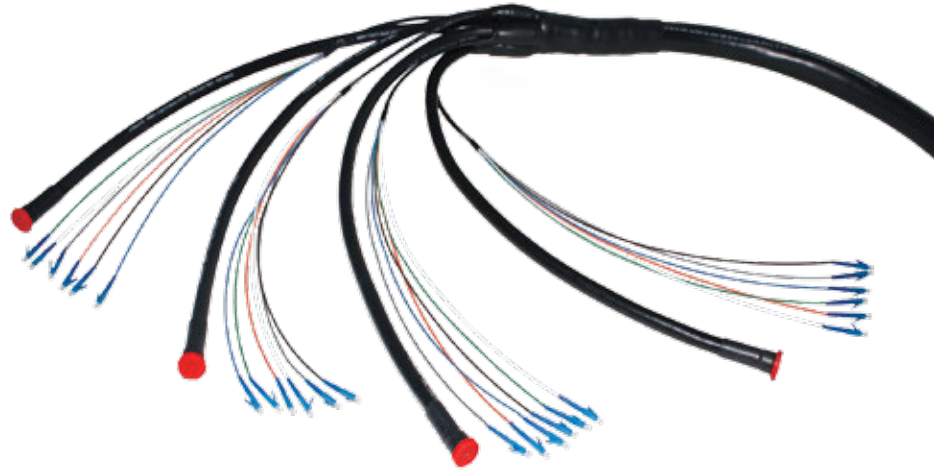


Data Center

OptiFlex™ Hybrid Cable Solutions

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	
Breakout and Terminations – Side A (Tower Top)	
Number of Remote Radio Heads	
Length in feet	
Fiber connector terminations	LC or SC
Power conductor terminations	
Breakout and Terminations – Side B (Bottom/Equipment)	
Length in feet	
Fiber connector terminations	LC or SC
Power conductor terminations	

Manufactured by



Cables Unlimited
Division of RF Industries

(800) 590-9965

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Manufactured in the USA



Cables Unlimited Certifications



ISO9001



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



Underwriters Laboratories
Recognized

CORNING

CAH ConnectionsSM
Gold Program

Fiber to the Antenna Fiber Optic Trunk Cables

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

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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.

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CORNING

CAH ConnectionsSM
Gold Program

Fiber to the Antenna LC-LC Duplex Ruggedized Fiber Jumpers

Features

- IP66/67 rated harsh environment
- OM1 62.5/125
- -40 to +85 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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CORNING

CAH ConnectionsSM
Gold Program

Corning Gold House Fiber Patch Cables

Corning Gold Program

- Cables Unlimited is a member of the Corning Cable Systems Cable Assembly House (CAH) ConnectionsSM Gold Program.
- Patch cables manufactured by Cables Unlimited qualify for the Corning Cable Systems LANscapeTM Extended Warranty ProgramSM, 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 and business excellence with a commitment to providing Corning Cable Systems materials, fiber optic cable and connectors, and adhering to recommended manufacturing processes.

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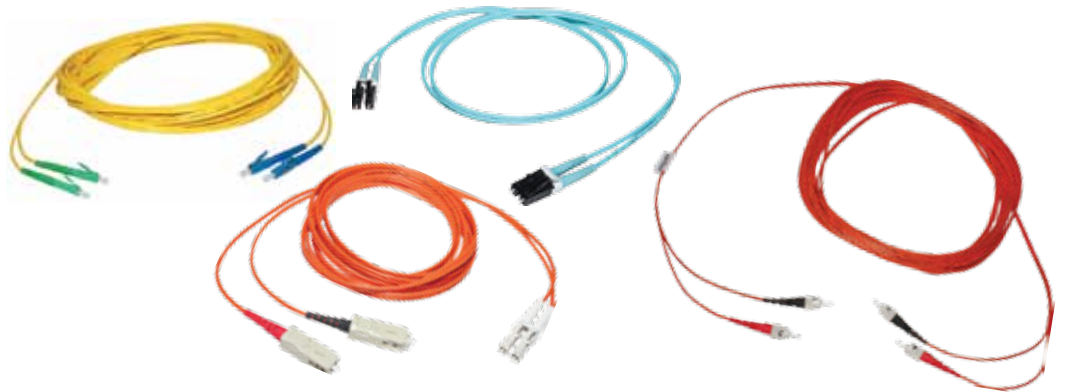
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CORNING

CAH ConnectionsSM
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

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Cables Unlimited Certifications



ISO9001



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



Underwriters Laboratories
Recognized

Indoor DC Power Cables

Specifications

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



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

Description	Part Number
Cable, power, 1/0, Non-Hal, KS24194 L3 Type, Gray	PWR-1/0-24194-GY
Cable, power, 2/0, Non-Hal, KS24194 L3 Type, Gray	PWR-2/0-24194-GY
Cable, power, 2 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-2A-24194-GY
Cable, power, 4 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-4A-24194-GY
Cable, power, 6 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-6A-24194-GY
Cable, power, 6 AWG, Non-Hal, KS24194 L3 Type, Green	PWR-6A-24194-GN
Cable, power, 8 AWG, Non-Hal, KS24194 L3 Type, Gray	PWR-8A-24194-GY
Cable, power, 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 Industries
Division of RF Industries
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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



Cable Type	Comp A	Comp B	Overall Cable	Nominal OD (inches)
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
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
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
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

Description	Part Number
8-AWG, 6-conductor shielded, #8 tinned copper (multiple colors) with #10 bare ground wire	86CS-8MC-10
12-AWG, 2-conductor shielded, #12 AWG 65 strands tinned copper (red and black) with #12 bare ground wire	122CS-12RB-12
10-AWG, 2-conductor shielded, # 10 AWG 105 strands tinned copper (red and black) with #10 bare ground wire	102CS-10RB-10
8-AWG, 2-conductor shielded, # 8 AWG 168 strands tinned copper (red and black) with #10 bare ground wire	82CS-8RB-10

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Manufactured in the USA



RF Connectors and Kits

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.

Manufactured by



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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-240 and LMR-400 are registered trademarks 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 Cable Assemblies

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-240 and LMR-400 are 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; CCBL-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

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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