

# ActiFi™ FREEDM® DAS Cables for Indoor/ Outdoor Riser

24 F, 4 Cu Conductor, 14AWG

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Corning ActiFi™ FREEDM® Cables provide the ultimate solution for indoor-outdoor remote powering of distributed antenna systems (DAS). The designs use 6-, 12- or 24-fiber cables with 2, 4, 6 or 12 copper conductors. The gauge of wire (14 or 16 AWG) necessary to power the remote active gear determines distance traveled and strength required.

Corning ActiFi™ FREEDM® Cables provide a time and cost-saving solution for installations requiring remotely-powered equipment. By integrating copper and fiber in one cable, ActiFi FREEDM Cables eliminate the need to install separate power and fiber cables. This saves installation time, labor costs and duct or tray space. The compact and versatile design is available in riser or interlocking armored riser for additional protection where conduit may not be feasible.

## Features and Benefits

### 14 or 16 AWG copper conductor

Power transmission with flexibility in design

### 4-, 6-, 12- or 24-fibers

Readily identifiable

### Individual fibers

Easily accessible for splicing

### ClearCurve® ZBL or SMF-28® Ultra fibers

Reliable performance in challenging routes

### 2-in-1 composite cable design

One cable meets power and signal needs

## Standards

### Approvals and Listings

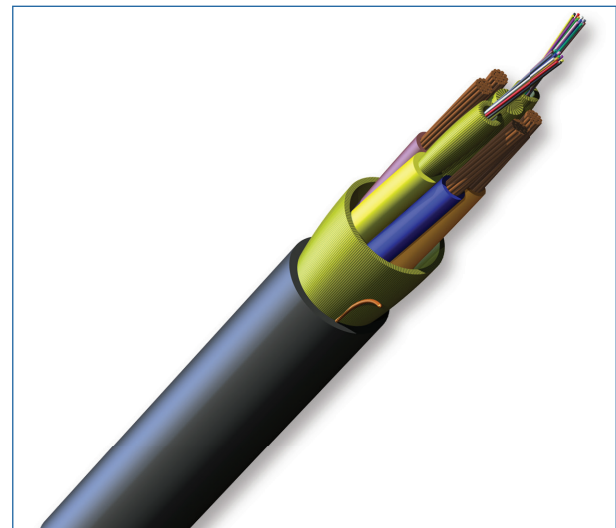
Fibers compliant with ITU-T G.652.D and G.657.B3

### Common Installations

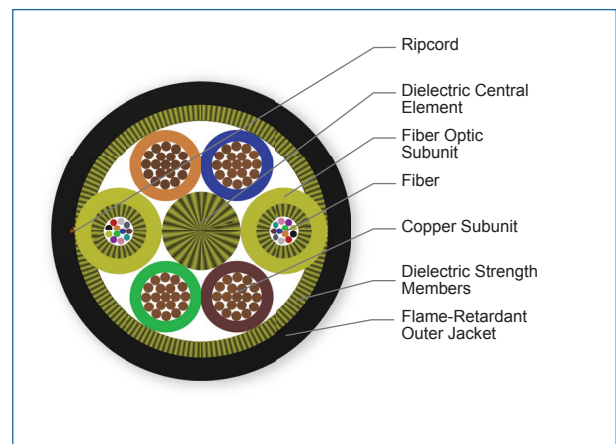
Compliant with ICEA S-83-596 (compliant at tensile loads listed in the specifications table)

### Design and Test Criteria

Compliant with UL-13 and NEC 725 Class 2 (CL2P)



Part Number: 024UDF-41G01M20



Cross Section of Part Number: 024UDF-41G01M20

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## Specifications

### General Specifications

Environment	Indoor/Outdoor
Application	Vertical Riser
Cable Type	Loose Tube
Fiber Category	ClearCurve® ZBL Single-mode (OS2)

### Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

### Cable Design

Central Element	Jacketed GRP
Fiber Count	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	2
Number of Active Tubes	2
Buffer Tube Color Coding	Yellow
Buffer Tube Diameter	3.3 mm (0.13 in)
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Black
Conductor	14 AWG
Number of Conductors	4

### Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	810 N (180 lbf)
Weight	164 kg/km (110 lb/1000 ft)
Nominal Outer Diameter	10.7 mm (0.42 in)
Min. Bend Radius Installation	160.5 mm (6.32 in)
Min. Bend Radius Operation	107 mm (4.21 in)

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## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Name	ClearCurve® ZBL
Fiber Category	G.657.B3/G.652.D
Fiber Code	U
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Typical Attenuation*	0.35 dB/km / 0.35 dB/km / 0.20 dB/km

\* For more information on typical attenuation please see the Corning whitepaper at [http://csmedia.corning.com/opcomm//Resource\\_Documents/whitepapers\\_rl/LAN-1863-AEN.pdf](http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf)

## Ordering Information

Part Number	024UDF-41G01M20
Product Description	ActiFi™ FREEDM® DAS Cables for Indoor/Outdoor Riser, 24 F, 4 Cu Conductor, 14AWG
EAN Code	4056418151595



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