ActiFi™ FREEDM® DAS Cables for Indoor/Outdoor Riser

24 F, 12 Cu Conductor, 12AWG

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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.

Part Number: 024ZDF-M1F01M20

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
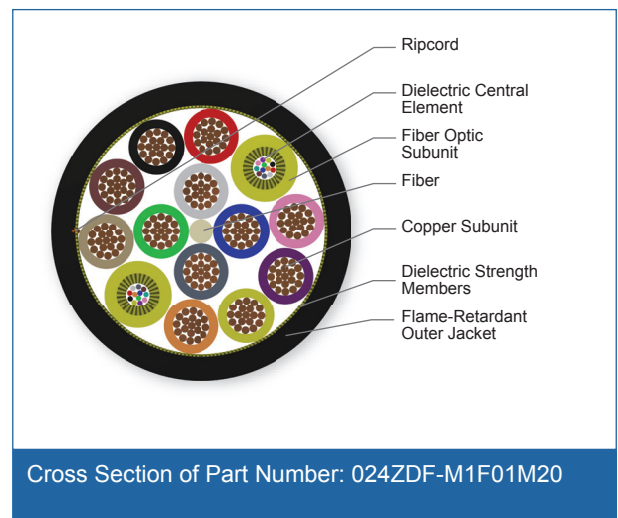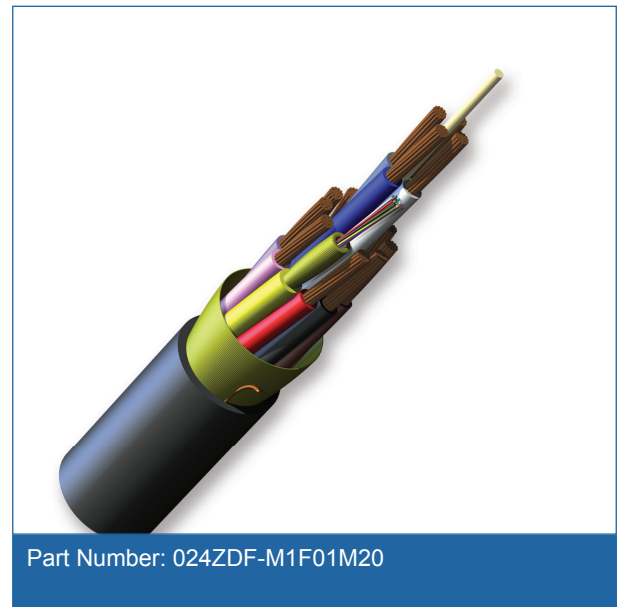
2-in-1 cable design
One cable meets power and signal needs

Cross Section of Part Number: 024ZDF-M1F01M20

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)

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Specifications

General Specifications	
Environment	Indoor/Outdoor Cables
Application	Vertical Riser
Cable Type	Loose Tube
Fiber Category	SMF-28® Ultra fiber

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

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	810 N (180 lbf)
Weight	578 kg/km (387.3 lb/1000 ft)
Nominal Outer Diameter	17.9 mm (0.70 in)
Min. Bend Radius Installation	268.5 mm (10.57 in)
Min. Bend Radius Operation	179 mm (7.05 in)
Conductor Size	12AWG
Number of Conductors	12

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG

Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	SMF-28® Ultra fiber
Fiber Category	G.657.A1
Fiber Code	Z
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	0.33 dB/km / 0.33 dB/km / 0.19 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

Ordering Information

Part Number	024ZDF-M1F01M20
Product Description	ActiFi™ FREEDM® DAS Cables for Indoor/Outdoor Riser, 6 F, 12 Cu Conductor, 12AWG
EAN Code	4056418142142

RoHS COMPLIANT

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