

ActiFi® Composite Cable, Loose Tube, Indoor, Plenum 2 F, 2 Cu Conductor, 12AWG



Part Number:
002ZD8-21W01M20

Corning's ActiFi Composite Cables provide the ultimate solution for indoor remote powering of distributed antenna systems, optical networks, small cells and more. The design uses fiber and linear laid copper conductors rated at 300 VAC. These cables are suitable for use with Digital Electricity and +/-190VDC installations in accordance with NEC Article 830.15. They may also be used with low-voltage installations in accordance with NEC Article 725. ActiFi Composite cables also provide a time and cost saving solution for installations requiring remotely powered equipment. By integrating linear laid copper and loose tube fiber in one cable, ActiFi Composite 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 with an interlocking armor option for additional protection where conduit may not be feasible.

Features and Benefits

Mutual capacitance between adjacent conductors
<50 pF/ft

Conductor insulation material and thickness
PVC insulation, thickness varies depending on AWG size

Individual fibers
Easily accessible for termination

2, 4, 6, 8, 12 or 24 ClearCurve®
Ultra fibers

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

Conductor color code
Closely follows Telcordia fiber color code

12, 14, 16, 18, or 20 AWG copper conductors
Power transmission with flexibility in design

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Specifications

General Specifications	
Installation Methods	Plenum
Cable Type	Loose Tube
Environment	Indoor
Fiber Category	SMF-28® Ultra
Flame Rating	Plenum CL3P
Cable geometry	Round

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC) Article 800
Design and Test Criteria	ICEA S-120-742, UL 13, 300 VAC, 80 C, ICEA S-83-596

Environmental Conditions	
Temperature Range, Installation	0 °C to 60 °C (32 °F to 140 °F)
Temperature Range, Operation	0 °C to 70 °C (32 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	2
Number of Ripcords	1
Outer Jacket Color	Yellow
Outer Jacket Material	Flame-retardant
Buffer Tube Color	Yellow
Buffer Tube Diameter	3 mm (0.12 in)
Conductor	12 AWG

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Cable Design	
Number of Active Tubes	1
Number of Conductors	2
Number of Tube Positions	1
Fiber Coloring	Blue, Orange
Fibers per Tube	2
Color Code Standards	Telcordia

Mechanical Specifications	
Max. Tensile Strength, Long-Term	267 N (60.02 lbf)
Min. Bend Radius Installation	154.5 mm (6.08 in)
Min. Bend Radius Operation	103 mm (4.06 in)
Nominal Outer Diameter	10.3 mm (0.41 in)

Optical Characteristics	
Fiber Code	Z
Performance Option Code	01
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1

Dimensions	
Cable Weight	150.23 kg/km (100.95 lb/1000 ft)

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