ActiFi™ DAS Cables for Indoor Plenum

Features and Benefits

12, 14, 16 or 20 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-28e+® ULTRA fibers
Reliable performance in challenging routes

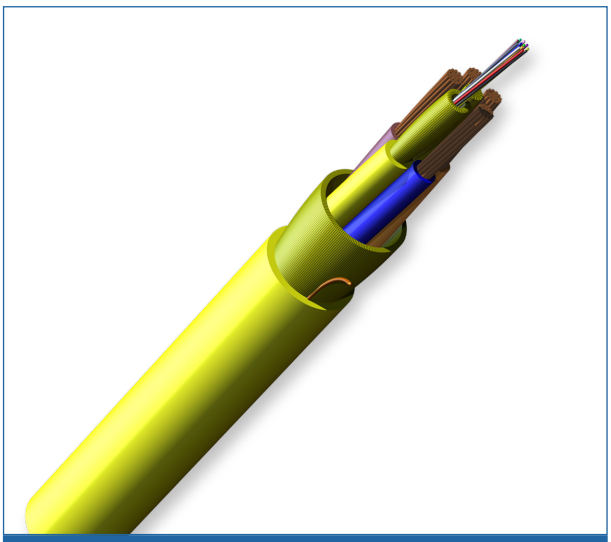
2-in-1 cable design
One cable meets power and signal needs

Corning ActiFi Cables provide the ultimate solution for indoor remote powering of distributed antenna systems. The designs use 6-, 12- or 24-fiber cables with 2, 4, 6 or 12 copper conductors. The gauge of wire (12, 14, 16 or 20 AWG) necessary to power the remote active gear determines distance traveled and strength required

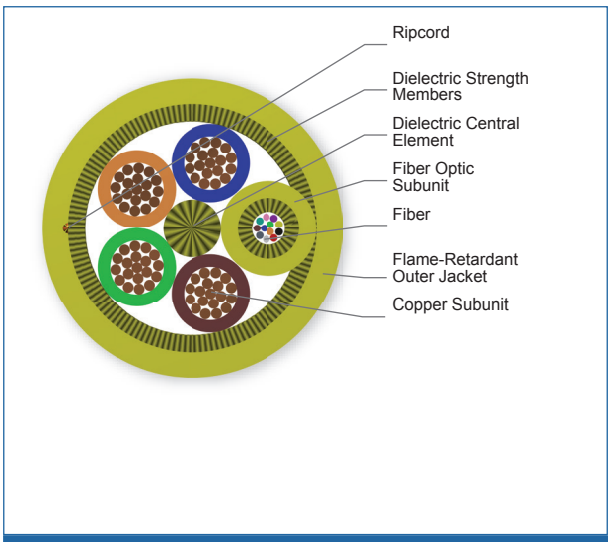
Corning Actifi Cables provide a time and cost-saving solution for installations requiring remotely-powered equipment. By integrating copper and fiber in one cable, ActiFi Cables eliminate the need to install separate power and fiber cables. This saves installation time, labor costs and duct or tray space.

Standards

Approval and Listings	Fibers compliant with ITU-T G.652.D, G.657.A1 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)



ActiFi™ DAS Cables for Indoor Plenum, 12-Fibers



ActiFi™ DAS Cables for Indoor Plenum, 12-Fibers

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Specifications

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 (-40 °F to 158 °F)

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	810 N (180 lbf)

Mechanical Characteristics Cable					
Fiber Count	Number of Conductors	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
MIC® 250 Cable with 12AWG					
4 - 12	2	147 kg/km (98 lb/1000 ft)	9.7 mm (0.38 in)	145.5 mm (5.73 in)	90.7 mm (3.57 in)
6 - 12	4	260 kg/km (174 lb/1000 ft)	12.8 mm (0.50 in)	192 mm (7.56 in)	128 mm (5.04 in)
24	2	162 kg/km (109 lb/1000 ft)	10.1 mm (0.40 in)	151 mm (5.94 in)	101 mm (3.98 in)
24	4	274 kg/km (184 lb/1000 ft)	13.1 mm (0.52 in)	197 mm (7.76 in)	131 mm (5.16 in)
MIC® 250 Cable with 14AWG					
6 - 12	2	69 kg/km (46 lb/1000 ft)	8.3 mm (0.33 in)	124.5 mm (4.90 in)	83 mm (3.27 in)
6	4	143 kg/km (96 lb/1000 ft)	9.5 mm (0.37 in)	142.5 mm (5.61 in)	95 mm (3.74 in)
6	6	232 kg/km (155 lb/1000 ft)	11.2 mm (0.44 in)	168 mm (6.61 in)	112 mm (4.41 in)
6	12	383 kg/km (257 lb/1000 ft)	14.2 mm (0.56 in)	213 mm (8.39 in)	142 mm (5.59 in)
8	4	147 kg/km (98 lb/1000 ft)	9.5 mm (0.37 in)	142.5 mm (5.61 in)	95 mm (3.74 in)
12	4	144 kg/km (96 lb/1000 ft)	9.5 mm (0.37 in)	142.5 mm (5.61 in)	95 mm (3.74 in)
12	6	233 kg/km (156 lb/1000 ft)	11.2 mm (0.44 in)	168 mm (6.61 in)	112 mm (4.41 in)
12	12	384 kg/km (257 lb/1000 ft)	14.2 mm (0.56 in)	213 mm (8.39 in)	142 mm (5.59 in)
24	2	86 kg/km (58 lb/1000 ft)	9.1 mm (0.36 in)	136.5 mm (5.37 in)	91 mm (3.58 in)

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Mechanical Characteristics Cable

Fiber Count	Number of Conductors	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
24	4	157 kg/km (105 lb/1000 ft)	10.5 mm (0.41 in)	157.5 mm (6.20 in)	105 mm (4.13 in)
24	6	269 kg/km (180 lb/1000 ft)	12.5 mm (0.49 in)	187.5 mm (7.38 in)	125 mm (4.92 in)
24	12	390 kg/km (261 lb/1000 ft)	14.2 mm (0.56 in)	213 mm (8.39 in)	142 mm (5.59 in)
Micro Modules with 16AWG					
6 - 12	2	55 kg/km (37 lb/1000 ft)	6.6 mm (0.26 in)	99 mm (3.90 in)	66 mm (2.60 in)
6 - 12	4	91 kg/km (61 lb/1000 ft)	7.3 mm (0.29 in)	109.5 mm (4.31 in)	73 mm (2.87 in)
6 - 12	6	117 kg/km (78 lb/1000 ft)	8.3 mm (0.33 in)	124.5 mm (4.90 in)	83 mm (3.27 in)
6 - 12	12	234 kg/km (157 lb/1000 ft)	11.2 mm (0.44 in)	168 mm (6.61 in)	112 mm (4.41 in)
24	2	63 kg/km (42 lb/1000 ft)	7.1 mm (0.28 in)	106.5 mm (4.19 in)	71 mm (2.80 in)
24	4	90 kg/km (60 lb/1000 ft)	7.8 mm (0.31 in)	117 mm (4.61 in)	78 mm (3.07 in)
24	6	136 kg/km (91 lb/1000 ft)	9.4 mm (0.37 in)	141 mm (5.55 in)	94 mm (3.70 in)
24	12	238 kg/km (159 lb/1000 ft)	11.2 mm (0.44 in)	168 mm (6.61 in)	112 mm (4.41 in)
Micro Modules with 20AWG					
4	4	53.1 kg/km (36 lb/1000 ft)	6.4 mm (0.25 in)	96 mm (3.78 in)	64 mm (2.52 in)
6	6	91 kg/km (61 lb/1000 ft)	7.0 mm (0.28 in)	105 mm (4.13 in)	70 mm (2.76 in)

Chemical Characteristics

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

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Transmission Performance

Single-mode		
Fiber Name	ClearCurve® ZBL	SMF-28® Ultra
Fiber Category	G.657.B3/G.652.D	G.657.A1
Fiber Code	U	Z
Performance Option Code	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3
Typical Attenuation* (dB/km)	0.35/0.35/0.20	0.33/0.33/0.19

** Typical attenuation values match the attenuation values listed in the optical fiber specifications. See **www.corning.com/opticalfiber** for Corning optical fiber specifications. Better attenuation performance options are available for some fiber and cable types. Contact Customer Care for additional fiber options.*
** * SMF-28® Ultra and ClearCurve® XB fiber deliver up to 10x better macrobend loss performance compared to the G.652.D standard and up to 33 percent better macrobend loss performance than the G.657.A1 standard for 10mm radii bends.*

Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*

□ □ □ □ □ 8 - □ 1 □ 0 1 M 2 0
1 2 3 4 5 6 7 8 9 10

1 Select fiber count.
004 = 4 fiber 012 = 12 fiber
006 = 6 fiber 024 = 24 fiber
008 = 8 fiber

2 Select fiber type.
U = ClearCurve® ZBL (OS2)
Z = SMF28® Ultra fiber (OS2)*
** If you select Z, choose from 6 or 12 conductors in Option 5.*

3 Select cable construction.
D = MIC® 250 with 12 or 14 AWG
T = Micro modules with 16 AWG
T = Micro modules with 20 AWG
If you select D, choose F or G from Option 7.
If you select T, choose H or K from Option 7.

4 Defines outer jacket.
8 = Plenum indoor

5 Select number of copper conductors.
2 = 2 conductors
4 = 4 conductors
6 = 6 conductors
M = 12 conductors

6 Defines unit of measure.
1 = Feet

7 Select cable construction.
F = MIC 250 with 12 AWG
G = MIC 250 with 14 AWG
H = Micro modules with 16 AWG
K = Micro modules with 20 AWG

8 Defines performance option code.
01 = Single-mode, OS2
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable construction.
M= Hybrid (composite) cable

10 Defines print code.
20 = Non-armored

Standard Offerings:
14 gauge: Non-armored, Plenum _ _ _UD8-_1G01M20
16 gauge: Non-armored, Plenum _ _ _UT8-_1H01M20
20 gauge: Non-armored, Plenum _ _ _UT8-_1K01M20

Note: Confirm non-standard configurations with Customer Care at 800-743-2571.

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Notes

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