ActiFi™ DAS Interlocking Armored 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

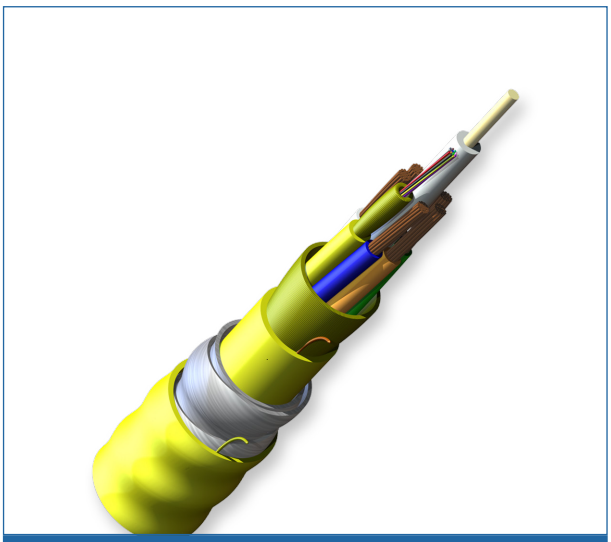
2-in-1 cable design
One cable meets power and signal needs

Corning ActiFi Interlocking Armored 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.

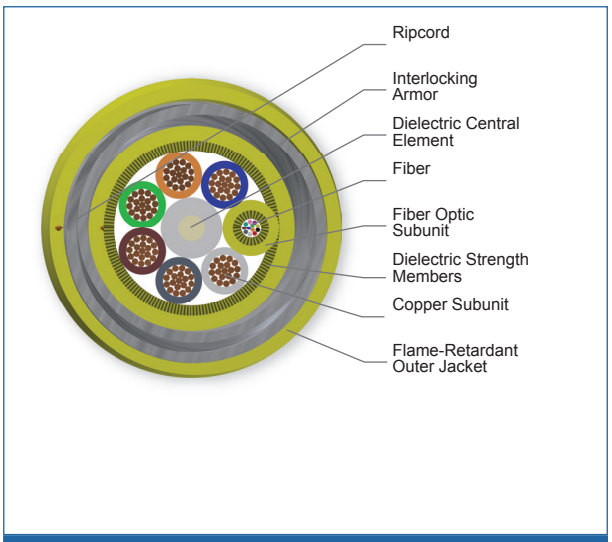
Corning Actifi Interlocking Armored Cables provide a time and cost-saving solution for installations requiring remotely-powered equipment. By integrating copper and fiber in one cable, ActiFi Cables eliminate the need to install separate power and fiber cables. This saves installation time, labor costs 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 Interlocking Armored Cables for Indoor Plenum, 12-Fibers



ActiFi™ DAS Interlocking Armored 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 (-4 °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 - 8	4	410 kg/km (275 lb/1000 ft)	17.3 mm (0.68 in)	260 mm (10.24 in)	173 mm (6.81 in)
4 - 12	2	284 kg/km (190 lb/1000 ft)	14.6 mm (0.57 in)	219 mm (8.62 in)	146 mm (5.75 in)
24	4	443 kg/km (297 lb/1000 ft)	19.3 mm (0.76 in)	290 mm (11.42 in)	193 mm (7.60 in)
24	2	301 kg/km (202 lb/1000 ft)	15.1 mm (0.59 in)	227 mm (8.94 in)	151 mm (5.94 in)
MIC® 250 Cable with 14AWG					
6	2	191 kg/km (128 lb/1000 ft)	14.6 mm (0.57 in)	219 mm (8.62 in)	146 mm (5.75 in)
6	4	293 kg/km (196 lb/1000 ft)	17.3 mm (0.68 in)	259.5 mm (10.22 in)	173 mm (6.81 in)
6	6	261 kg/km (175 lb/1000 ft)	18.1 mm (0.71 in)	271.5 mm (10.69 in)	181 mm (7.13 in)
12	6	262 kg/km (176 lb/1000 ft)	18.1 mm (0.71 in)	271.5 mm (10.69 in)	181 mm (7.13 in)
12	4	294 kg/km (197 lb/1000 ft)	17.3 mm (0.68 in)	259.5 mm (10.22 in)	173 mm (6.81 in)
12 - 6	12	417 kg/km (279 lb/1000 ft)	23.2 mm (0.91 in)	348 mm (13.70 in)	232 mm (9.13 in)
12	2	192 kg/km (129 lb/1000 ft)	14.6 mm (0.57 in)	219 mm (8.62 in)	146 mm (5.75 in)
24	12	421 kg/km (282 lb/1000 ft)	23.2 mm (0.91 in)	348 mm (13.70 in)	232 mm (9.13 in)
24	4	307 kg/km (206 lb/1000 ft)	17.3 mm (0.68 in)	259.5 mm (10.22 in)	173 mm (6.81 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	6	292 kg/km (196 lb/1000 ft)	19.3 mm (0.76 in)	289.5 mm (11.40 in)	193 mm (7.60 in)
24	2	223 kg/km (149 lb/1000 ft)	16.5 mm (0.65 in)	247.5 mm (9.74 in)	165 mm (6.50 in)
Micro Modules with 16AWG					
6 - 12	4	140 kg/km (94 lb/1000 ft)	14.6 mm (0.57 in)	219 mm (8.62 in)	146 mm (5.75 in)
6 - 12	6	160 kg/km (107 lb/1000 ft)	14.6 mm (0.57 in)	219 mm (8.62 in)	146 mm (5.75 in)
24 - 6	12	264 kg/km (177 lb/1000 ft)	18.1 mm (0.71 in)	271.5 mm (10.69 in)	181 mm (7.13 in)
24	4	142 kg/km (95 lb/1000 ft)	15.4 mm (0.61 in)	231 mm (9.09 in)	154 mm (6.06 in)
24 - 6	2	110 kg/km (74 lb/1000 ft)	13.3 mm (0.52 in)	199.5 mm (7.85 in)	133 mm (5.24 in)
24	6	176 kg/km (118 lb/1000 ft)	15.1 mm (0.59 in)	226.5 mm (8.92 in)	151 mm (5.94 in)
Micro Modules with 20AWG					
4	4	249 kg/km (167 lb/1000 ft)	12.4 mm (0.49 in)	186 mm (7.32 in)	124 mm (4.88 in)
6	6	399 kg/km (267 lb/1000 ft)	13.0 mm (0.51 in)	195 mm (7.68 in)	130 mm (5.12 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	A 3
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.
A3 = Interlocking armored

Standard Offerings:
14 gauge: Interlocking Armored, Plenum _ _ _UD8-_1G01MA3
16 gauge: Interlocking Armored, Plenum _ _ _UT8-_1H01MA3
20 gauge: Interlocking Armored, Plenum _ _ _UT8-_1K01MA3

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

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Notes

RoHS COMPLIANT

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