

ActiFi® Composite Cable, Tight- Buffered, Indoor 2 F, 2 Cu Conductor, 20AWG

CORNING

Part Number:
002Z4U-22Z25M2G

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 fibre and linear laid copper conductors rated at 300 VAC. Composite Cables also provide a time-and cost saving solution for installations requiring remotely powered equipment. By integrating linear laid copper and tight buffered fibre in one cable, ActiFi cables eliminate the need to install separate power and fibre cables. This saves installation time, labour costs and duct or tray space.

Features and Benefits

2-in-1 composite cable design

One cable meets power and signal needs

SMF-28® Ultra fiber

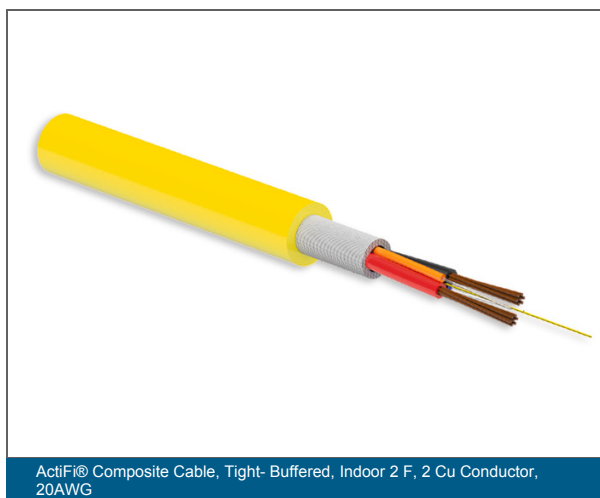
Reliable performance in challenging cable routes

Individual fibres

Easily accessible for splicing

Common Installations

Compliant with ICEA S-83-596



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Specifications

General Specifications

Cable type	Tight-buffered
Environment	Indoor
Fibre category	SMF-28® Ultra
Flame rating	LSZH/FRNC
Cable geometry	Round

Standards

Reaction to Fire	Cca, s1a, d1, a1
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable) and IEC 60332-3-24 (bunch of cables)
Reaction to Fire Requirements	Reaction to fire according to EN 50575 and EN 13501-6
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen according to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

Environmental Conditions

Temperature range, operation	0 °C to 60 °C
Temperature range, storage	0 °C to 60 °C

Cable Design

Fibre count	2
Buffer tube colour	Blue, orange
Outer jacket colour	Yellow
Buffering diameter	900 µm
Outer jacket material	Flame-retardant

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Cable Design

Conductor	AWG 20
Fibre colouring	Blue, orange
Number of conductors	2
Fibres per tube	1

Mechanical Specifications

Max. tensile strength, long-term	330 N
Max. tensile strength, short-term	1000 N
Min. bend radius installation	144 mm
Min. bend radius operation	72 mm
Nominal outer diameter	7.2 mm

Optical Characteristics

Fibre code	Z
Performance option code	25
Fibre category	OS2
Fibre Type	Single-mode (OS2) / 250 µm
Fibre name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.38 dB/km / 0.38 dB/km / 0.25 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Fibre core diameter	8.2 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]
Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 µm

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Optical Characteristics

Mode-Field Diameter at 1550 nm	10.4 μm
PMD Link Design Value	$\leq 0.04 \text{ ps}/(\text{nm}\cdot\text{km})$
PMD (Polarization Mode Dispersion) maximum individual fibre	$\leq 0.1 \text{ ps}/(\text{nm}\cdot\text{km})$

Dimensions

Cable Weight	70 kg/km
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Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: • www.corning.com/opcomm/emea

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