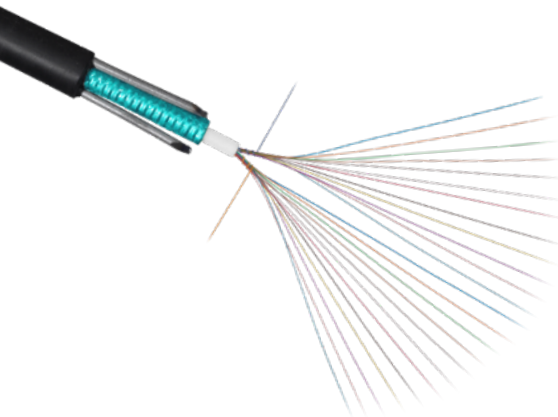




A Furukawa Company

# Mini C2™ DT Cable - Totally Gel Free

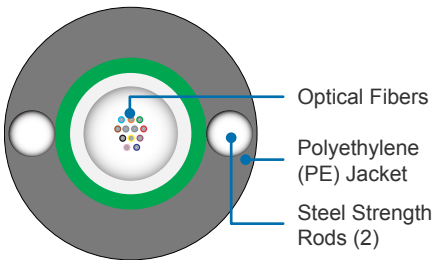
Lose the Gel with Completely Gel-Free, Compact Fiber Optic Cable for Faster, Cleaner Deployments



Mini C2 DT Fiber Optic Cable

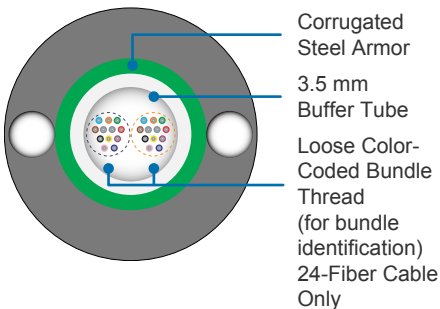
## Mini C2 DT Fiber Optic Cable Cross-Section

12-Fiber Cable



- Optical Fibers
- Polyethylene (PE) Jacket
- Steel Strength Rods (2)

24-Fiber Cable



- Corrugated Steel Armor
- 3.5 mm Buffer Tube
- Loose Color-Coded Bundle Thread (for bundle identification)
- 24-Fiber Cable Only

## Features and Benefits

- Optimized for optical fiber counts up to 24 for reduced deployment costs
- Totally gel-free fiber optic cable design for cleaner, faster installations
- Compact size facilitates more efficient duct utilization
- Steel strength rods allow ease of location following installation
- 600-pound (2700 N) Maximum Rated Cable Load (MRCL)
- Flexible 3.5 mm central tube routes easily into pedestals and closures
- RDUP (formerly RUS) listed; complies with Telcordia Technologies GR-20 specifications for reliable performance
- Available with OFS application-specific optical fibers, including AllWave® Zero Water Peak (ZWP) and AllWave+ ZWP Single-Mode and Multimode optical fibers

## Product Description

The OFS Mini C2™ DT Cable offers a compact, yet durable fiber optic cable solution in a completely gel-free design that is easy to handle and install. The core of this fiber optic cable contains no messy filling compounds, thereby eliminating the costly labor of removing gel from each optical fiber prior to splicing and helping keep your tools and workspace clean and safe.

The construction of the Mini C2 DT Cable begins by placing between one and 24 optical fibers within a flexible, 3.5 mm dry central tube (for counts greater than 12, fibers are separated by loose polyester binder threads). An overlapping layer of electrolytically chrome-coated corrugated steel (ECCS) armor then envelops the central tube. The inner surface of the ECCS armor is coated with a gel-free, super-absorbent, water-blocking powder that provides outstanding water penetration resistance “on demand”. Two steel strength rods are then placed lengthwise along the armor (diametrically positioned to each other) to provide additional tensile strength. Finally, a durable polyethylene (PE) jacket is applied to help provide protection in the rigorous outside plant (OSP) environment.

## Why The Mini C2 DT Cable?

The small size and light weight of the Mini C2 DT Cable offer a more cost-effective, efficient solution for the smaller fiber counts that are needed in the last optical link of your network.

This cable’s innovative gel-free design features no messy filling compounds, virtually eliminating the need for cleaning chemicals and wipes and enabling faster and cleaner OSP installation with almost effortless splice preparation. The Mini C2 DT Cable’s totally gel-free construction also creates a more compact, lighter weight cable that is easier to handle and install and that helps save on cable storage space and shipping. By reducing transportation costs and the use of chemical cleaning supplies, this cable offers a more cost-effective, eco-friendly solution.

Suitable for underground conduit, direct buried and aerial/lashed applications\*, the Mini C2 DT Cable’s flexible, 3.5 mm central tube is also easily routed into pedestals and closures.

\* Please review OFS Installation Procedure # 038 for cable placement recommendations.

## Specifications

Fiber Count:	1-24
Outer Diameter - in. (mm)	0.38 (9.7)
Weight - lb/kft (kgm/km)	73 (109)

## Performance Standard

Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20 CORE, Issue 4

## Handling

Minimum Bend Radius, With Load	15 x OD*
Minimum Bend Radius, With No Load	10 x OD*
Minimum Bend Radius, Storage Coils	10 x OD*
Maximum Rated Cable Load (MRCL):	600 lbf (2700 N)
Maximum Long Term Load:	180 lbf (800 N)

**Temperature:** Installation: -22 °F to 140 °F (-30 °C to 60 °C)  
 Operation: -76 °F to 158 °F (-60 °C to 70 °C)  
 Storage: -40 °F to 167 °F (-40 °C to 75 °C)

\* NOTE: OD = Outer Diameter of Cable

## Fiber Type<sup>2</sup>

	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical * Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
<b>Single-Mode Fiber</b>							
AllWave® ZWP Fiber	3	B	E	G.652.D	1310/1385/1550	-	0.35/0.31/0.25
AllWave+ ZWP Fiber	3	C	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave FLEX ZWP Fiber	5	B	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave Low Loss Fiber	3	A	E	G.652.D	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
AllWave One Fiber	3	F	E	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
<b>Multimode Fiber</b>							
62.5 µm Fiber	R	U	9	OM1 62.5 µm	850/1300	-	3.4/1.0
LaserWave® FLEX 300 Fiber	R	F	2	OM3 50 µm	850/1300	-	2.4/0.7
LaserWave FLEX 550 Fiber	R	H	2	OM4 50 µm	850/1300	-	2.4/0.7

## Mini C2 DT Cable Ordering Information

Example: AT-3BEQ2QT-NNN<sup>1</sup> Part Number: AT- S1 S2 SF S3 S4 S5 S6 - NNN

<b>S1 = Fiber Selection</b> See S1 in Fiber Type table above	<b>S3 = Sheath Construction</b> Q = Mini C2 DT	<b>S5 = Core Type</b> Q = Totally Gel-Free Tube (3.5 mm tube)
<b>S2 = Fiber Transmission Performance</b> See S2 in Fiber Type table above	<b>S4 = Tensile Load</b> 2 = 600 lb. (2700 N)	<b>S6 = Fibers per Tube</b> T = 12 fibers (per bundle)
<b>SF = Fiber Type<sup>2</sup></b> See SF in Fiber Type table above		<b>NNN = Fiber Count</b> = 001 – 024

<sup>1</sup> Part Number shown is for a Mini C2 DT Cable with standard AllWave ZWP attenuation and standard cable print. Maximum AllWave ZWP attenuation: 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm

Standard Print, example for Mini C2 DT Cable: OFS OPTICAL CABLE AT-3BEQ2QT-NNN [MM-YY] (UL) US TYPE OFNR [HANDSET SYMBOL] [NNN] F [SERIAL #]

<sup>2</sup> Contact OFS Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable print.

**NOTE:** For more information regarding typical attenuation as well as attenuation parameters on Link Design Value (LDV) (Maximum end-to-end attenuation over a concatenated span), please see OFS Application Note AN-111 which can be downloaded at [www.ofsoptics.com](http://www.ofsoptics.com) or contact your OFS representative.

For additional information please contact your sales representative.

You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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