

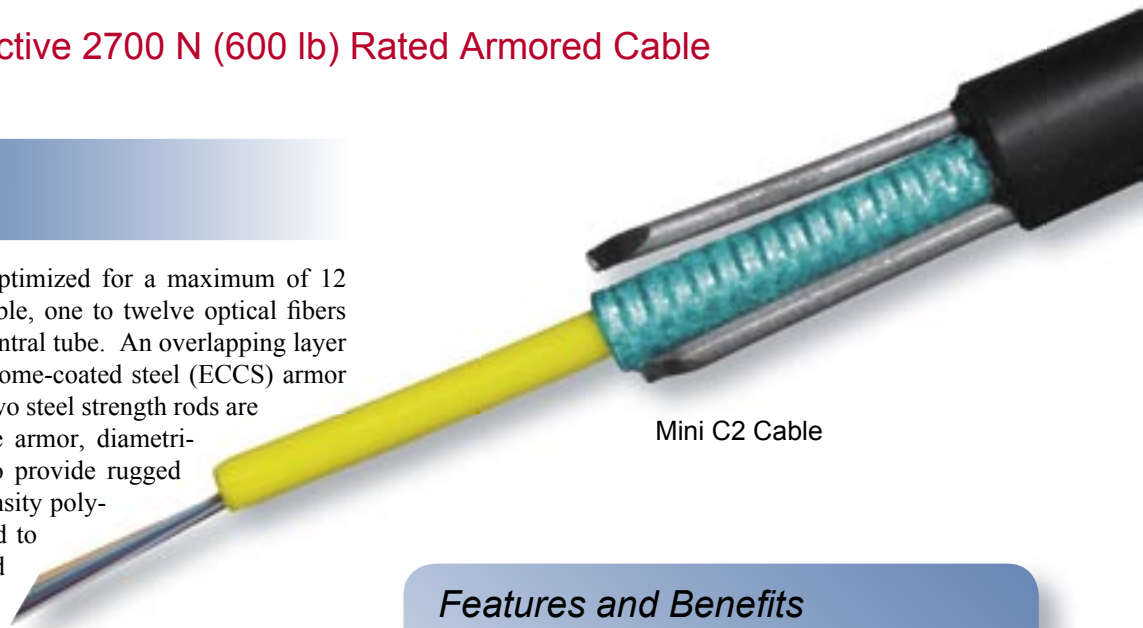
# Mini C2™ Cable



## Compact and Cost-Effective 2700 N (600 lb) Rated Armored Cable

### Product Description

The Mini C2 cable is size-optimized for a maximum of 12 fibers. To construct the cable, one to twelve optical fibers are placed within a 3 mm filled central tube. An overlapping layer of corrugated, electrolytically chrome-coated steel (ECCS) armor then envelops the central tube. Two steel strength rods are next placed lengthwise along the armor, diametrically positioned to each other, to provide rugged durability. Finally, a medium-density polyethylene (MDPE) jacket is added to provide protection in the rugged outside plant environment.



Mini C2 Cable

### Why the Mini C2 Cable?

The small size and light weight of the Mini C2 cable provides a more cost-effective solution for the smaller fiber counts that are needed in your network. Suitable for underground conduit and rugged direct buried applications, this cable provides excellent optical, mechanical and environmental performance in a compact reliable design.

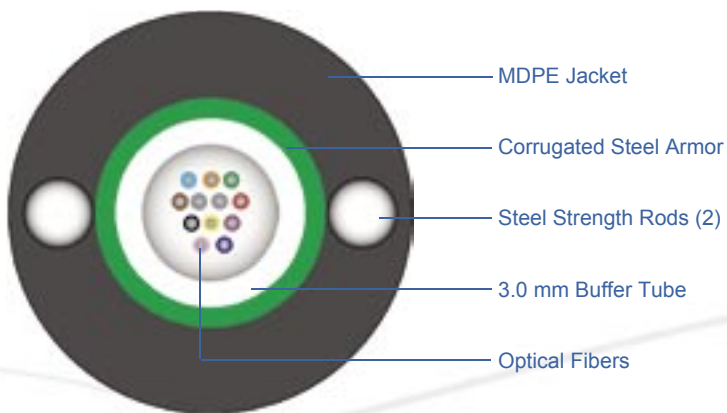
### Features and Benefits

- Optimized for fiber counts up to 12 for reduced deployment costs
- Small diameter and lightweight designs for easy handling and installation
- 600 pound rated installation load
- Compliant with Telcordia Technologies GR-20 specifications for reliable performance
- Available with all OFS fiber types, including AllWave® and TrueWave® fibers
- Quick fiber access with standard tooling
- Corrugated ECCS armor and steel strength rods for durability

### Ordering Information

Cable	Cable Codes
Single-mode AllWave fiber	AT-3BEQ2BT-xxx or AT-34EQ2BT-xxx
Single-mode TrueWave fiber	AT-626Q2BT-xxx
Multimode fiber (62.5 micron)	AT-RU9Q2BT-xxx

Available fiber types include single-mode AllWave and TrueWave fibers, 62.5 micron multimode fiber and other fiber types. Other transmission characteristics are available on a special order basis.



Mini C2 Cable Cross-Section

## Test Methods

Cable Test	Test Method*	Requirement	Notes
Tensile Loading and Bending	TIA/EIA-455-33 (IEC 60794-1-E1)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Cyclic Flexing	TIA/EIA-455-104 (IEC 60794-1-E6)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Cyclic Impact	TIA/EIA-455-25 (IEC 60794-1-E4)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Compressive Loading	TIA/EIA-455-41 (IEC 60794-1-E3)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss ) 440 N/cm (250 lbf/in) Load	2
Twist	TIA/EIA-455-85 (IEC 60794-1-E7)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Low and High Temperature Bend	TIA/EIA-455-37 (IEC 60794-1-E11)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
External Freezing	TIA/EIA-455-98 (IEC 60794-1-F6)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Fiber Strippability	TIA/EIA-455-178 No equivalent IEC procedure	≤9.0 N (2 lbf) on unaged and aged fiber, ≥1.0N (0.2 lbf) on unaged and aged fiber	2
Temperature Cycling	TIA/EIA-455-3 (IEC 60794-1-F1)	≤ 0.05 dB/km Mean Added Loss (≤ 0.15 dB/km Max Added Loss)	2
Cable Aging	TIA/EIA-455-3 (IEC 60794-1-F1)	≤ 0.10 dB/km Mean Added Loss ( ≤ 0.25 dB/km Max Added Loss)	2
Water Penetration	TIA/EIA-455-82 (IEC 60794-1-F5)	No flow after 24 hours from one meter length of cable	1
Sheath-to-Ground Dielectric Strength		≥ 20 kV for all armored metallic sheaths	2
Compound Drip	TIA/EIA-455-81 (IEC 60794-1-E14)	70°C, 24 hours duration, no drip	2
Lightning Conduction	TIA/EIA-455-181 (ITU-T K.25)	ICEA** Category 2 for armored metallic sheaths	2

Notes: 1. Routine Requirements (RR)

2. Qualification Requirement (QR)

\* OFS complies with the latest revision of the TIA/EIA Test Method (There is not exact correspondence of TIA/EIA Fiber Optic Test Procedures (FOTPs) and IEC Test Methods.)

\*\* ICEA categories are equivalent to those of Telcordia GR-20

## Specifications:

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Fiber Count:	1 - 12
Outside Diameter - mm (in.):	9.4 (0.38)
Cable Weight - kg /km (lb/kft):	117 (78.6)
<b>Handling</b>	
Minimum Bend <b>Diameter</b> with Load:	30 x Outside Diameter
Minimum Bend <b>Diameter</b> without Load:	20 x Outside Diameter
Maximum Pulling Load - kN (lb):	2.7 (600)
Maximum Operational Load (all fiber counts) - kN (lb):	0.8 (180)
Compressive Load- N/cm (lbf/in):	440 (250)
<b>Temperature (all fiber counts)</b>	
Installation:	-30°C to 60°C (-22°F to 140°F)
Operation:	-60°C to 70°C (-76°F to 158°F)
Storage:	-40°C to 75°C (-40°F to 167°F)

For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 1-888-fiberhelp. For regional assistance, contact:

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