

Clear Fiber Drop Cable

The Clear Fiber drop cable is a specially designed all-dielectric cable for fiber-to-the-home (FTTH) use. Because of its easy fiber access design, this unique cable can be transitioned from outdoor to indoors without the need for a splice or connection point. A single 900 µm clear-buffered, ultra-bend-insensitive optical fiber (ITU-T G657.B3) is contained within the jacketed fiber drop, meeting the 5 mm bend radius requirement. Two parallel fiber-reinforced polymer (FRP) strength members are placed on the two sides of the fiber in the cable. Cable jacket dimensions are 2.5 x 4.0 mm.

When installing the cable indoors, the two sides of the cable are easily peeled back – exposing the 900 µm clear buffered fiber. The clear buffered fiber is then inconspicuously laid into the Corning® Clear Track Fiber Pathway and routed to the homeowner’s network terminal or wall outlet. The fiber can be easily terminated with field-installable connectors.



Clear Fiber Drop Cable

Features	Benefits
Small profile for outdoor and indoor	Less visible, resulting in an aesthetically pleasing look for both building owners and homeowners
Easy access cable design	Peels apart with minimal tools, exposing the clear fiber inside
Can be stapled on outside walls	Ruggedized design and less installation time needed
Field-termination friendly	Direct attachment of cable jacket to connector for easy access and termination of internal 900 µm fiber without dealing with aramid yarn
Low thermal shrink/expansion construction	Stable performance throughout temperature extremes
OFNR/FTA (riser rated)	Enables entry into basements/attics before transitioning to living space
All-dielectric	Eliminates the need for bonding or grounding
Factory-terminated Clear Drop cable versions are also available	Further simplify pathway installation with unique plug-and-play connectorization designs

Clear Fiber Drop Cable (Unterminated, Indoor/Outdoor)

The Clear Fiber drop cable maximizes indoor/outdoor drop cable flexibility in a fiber-to-the-home (FTTH) deployment by eliminating slack storage, removing the need for a splice point, and allowing different connectivity choices – including field-mount connectors, like No Polish and Crimplok™+ connectors. The cable, available in 2500 ft spools, is extruded with all-dielectric optical fiber, nonconductive-riser (OFNR) materials, and factory filled with clear buffered 900 μm ultra-bend-insensitive fiber, which is more craft friendly than traditional 250 μm fibers inside typical drop cables. Along with the Corning® Clear Track Fiber Pathway, the pathway solution is ideal for single-family units as well as garden-style homes serviced by FTTH networks.

Clear Fiber Drop Patch Cord (Factory-Terminated, Indoor/Outdoor)

Clear Fiber drop cable is also available as factory-terminated patch cords with SC APC connectors on both ends. The outdoor end of the Clear Fiber drop patch cord has an SC APC connector and the fiber is transitioned to a round 3 mm jacketed cable, which can be conveniently looped inside a network interface device (NID). The indoor end of the Clear Fiber drop patch cord has an SC APC connector inside a pulling sock, which provides great protection through the wall. The SC APC connector is then plugged into the wall outlet or optical network terminal (ONT). Along with the Clear Track ILU Fiber Pathway, the Clear Fiber drop cable enables both convenient and efficient fiber pathway installation from outside the single-family home to inside the living area.

Clear Fiber Drop Pigtail (Factory-Terminated Pigtail, Indoor/Outdoor)

Like the Clear Fiber Drop patch cord, the Clear Fiber Drop pigtail cable is available as a factory-terminated pigtail solution with an SC APC connector located on the exterior end. The outdoor end of the Clear Fiber drop pigtail has an SC APC connector and the fiber is transitioned to a round 3 mm jacketed cable, which can be easily looped inside a network interface device (NID).



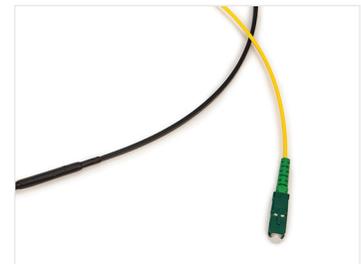
Clear Fiber Drop Cable
(Unterminated, indoor/outdoor)



Clear Fiber Drop Patch Cord



Inside End of Clear Fiber Drop
Patch Cord with Pulling Sock



Outside End of Clear Fiber Drop
Patch Cord

Clear Fiber Drop Cable Specifications

Application	Outdoor/indoor use Not recommended for aerial spans or below-grade conduits; Can be pulled into 7.0 mm conduit
Fiber type	Single-mode (ultra-end insensitive) (ultra-bend insensitive ITU-T G657.B3)
Fiber count	One fiber with 900 µm buffer
Jacket color/fiber color	Black/clear
Jacket/tight-buffered fiber material	LSZH [™] resin/PVC with low-friction characteristic
Standards	Meets Telcordia GR-20 and ICEA-S-110-717 fiber drop cable requirements OFNR/FT 4 (riser rated), indoor/outdoor rated
Operating temperature range	-40°C to 70°C (-40°F to 158°F)
Mechanical Nominal outer dimensions	2.5 x 4 mm
Cable bend radius Dynamic/static	50 mm/25 mm (2.0-in/1.0-in)
Cable weight	10 kg/km (6.7 lbs/kft)
Certifications	The Clear Fiber drop cable has been listed to the requirements of UL 1685 OFNR-LS. The Clear Fiber drop has been listed to CSA-C22.2 No. 2556 OFNR-FT4-ST1.
Impact test	Standard - ICEA-717 (7.22); Test method- FOTP-25; Passed < 0.4 dB SM loss with two 2.94 Nm impacts
Cold impact test -10°C	Standard - ICEA-717 (7.23); Test method- FOTP-25; Passed two impacts of 2.94 Nm at three locations
T25 staple test	Standard Verizon TPR-9424; passed with 20 staples, attenuation @ 1550 nm < 0.1 dB
Indoor 900 µm fiber	UV-Resistance Conformant to 720h ASTM G155 Cycle 1.
Outdoor cable jacket	UV-Resistance Conformant to 4000h ASTM G155 Cycle 1.

900 µm Clear Fiber Specifications

Product Type

Tight-buffered coating type Ultra-bend insensitive single-mode fiber	900 µm Clear PVC, proof tested to 100 kpsi ITU-T G.657.B3, G.652.D
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Optical Specifications

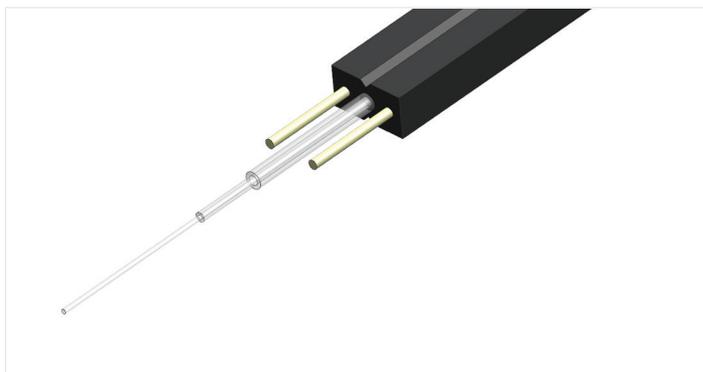
Attenuation		
Attenuation at 1310 nm	≤ 0.35 dB/km	
Attenuation at 1490 nm	≤ 0.25 dB/km	
Attenuation at 1550 nm	≤ 0.22 dB/km	
Attenuation at 1625 nm	≤ 0.24 dB/km	
Attenuation with Bending		
Number of turns	1	1
Mandrel radius	5.0 mm	5.0 mm
Wavelength	1550 nm	1625 nm
Induced attenuation	≤ 0.15 dB	≤ 0.45 dB
Cutoff Wavelength (ccf)	≤ 1260 nm	
Mode Field Diameter (MFD)		
Wavelength (nm)	1310 nm	1550 nm
MFD (µm)	8.7 +/- 0.5	9.65 +/- 0.7

Geometrical Specifications

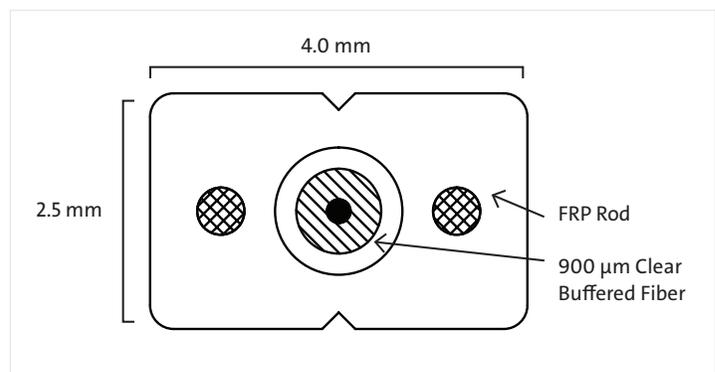
Glass cladding diameter	125.0 +/- 0.4 µm
Glass core/cladding concentricity error	≤ 0.3 µm
Glass core/cladding non-circularity	≤ 0.3 %
Buffer diameter	0.9 +/- 0.05 mm
Coating diameter	242 +/- 5 µm

Ordering Information

Description	Corning Catalog Number	Minimum Order
Clear Fiber Drop Cable, single fiber, no termination, 2,500 ft, black	80611498066	1 piece
Clear Drop Push Tubes, 100 pcs/pack	80611488398	1 pack
Clear Fiber Drop Patch Cord, single fiber, SC APC-SC APC, 25 ft, black	80611488414	1 piece
Clear Fiber Drop Patch Cord, single fiber, SC APC-SC APC, 50 ft, black	80611487929	1 piece
Clear Fiber Drop Patch Cord, single fiber, SC APC-SC APC, 75 ft, black	80611488422	1 piece
Clear Fiber Drop Patch Cord, single fiber, SC APC-SC APC, 100 ft, black	80611487937	1 piece
Clear Fiber Drop Patch Cord, single fiber, SC APC-SC APC, 150 ft, black	CLR-DRP-150-01-SCA2-BL	1 piece
Clear Fiber Drop Patch Cord, single fiber, SC APC-SC APC, 200 ft, black	CLR-DRP-200-01-SCA2-BL	1 piece
Clear Fiber Drop Pigtail, single fiber, SC APC-SC APC, 25 ft, black	CLR-DRP-025-01-SCA1-BL	1 piece
Clear Fiber Drop Pigtail, single fiber, SC APC-SC APC, 50 ft, black	CLR-DRP-050-01-SCA1-BL	1 piece
Clear Fiber Drop Pigtail, single fiber, SC APC-SC APC, 75 ft, black	CLR-DRP-075-01-SCA1-BL	1 piece
Clear Fiber Drop Pigtail, single fiber, SC APC-SC APC, 100 ft, black	CLR-DRP-100-01-SCA1-BL	1 piece
Clear Fiber Drop Pigtail, single fiber, SC APC-SC APC, 150 ft, black	CLR-DRP-150-01-SCA1-BL	1 piece
Clear Fiber Drop Pigtail, single fiber, SC APC-SC APC, 200 ft, black	CLR-DRP-200-01-SCA1-BL	1 piece



Isometric View of Clear Fiber Drop Cable



CORNING

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