



**Corr2Flex® 3.0mm & 4.0mm
OSP & OFNP**

APPLICATIONS

Cablcon's Corr2Flex® micro armor fiber optic cable is a flexible cable made from crush resistant polymers. The cable is extremely lightweight with incredible tensile strength and protection. The compact and lightweight properties are suitable for routing in trays, racks and free-form applications using electrical cable style installation using staples or clips.



Cablcon manufactures custom built fiber optic assemblies to meet industry needs. All cables are built domestically at one of our ISO 9001 and TL 9000 Certified plants. Our manufacturing process and component level products are designed to meet GR-326-CORE Issue 4 as well as IEC-61300-3-35 End Face Cleanliness. Product test reports are available online using our web based tool at fibertest.cablcon.com.

Corr2Flex® fiber optic assemblies provide quality, cost effective solutions, reducing soft costs throughout the installation process due to the ease and speed of installation. Cablcon removes soft costs by being responsive in shipping custom length cables 2-3 days ARO, meeting on-site dates 98%+ as reported to the QuEST Forum, and providing quality products having an external defect rate less than 0.002.

APPLICATIONS

- Cablcon Fiber Management Systems including VFM®
- Telecom & Data Infrastructure
- Small Cell / DAS / FTTA



ASSEMBLY CONSTRUCTIONS

- All fiber connector types available including LC, SC & MPO
- Various breakouts & furcating (up-jacketing) available

Cable Constructions								
Fiber Count	Weight	OD	Tension Strength	Minimum Installation	Bend Radius Operation	Crush	Operating Temp (F)	Installation Temp (F)
250µm	(kg/km)	(mm)	(n)	(mm)	(mm)	(n)		
PLENUM								
1, 2, 4, 6, 8, 12, 24	11.5	4.0	100	20	40	750	-40° to 158°	-40° to 158°
FLAME RETARDANT								
1, 2, 4, 6, 8, 12	8.1	3.0	100	15	30	950	-40° to 176°	-4° to 140°
24	9.2	4.0	100	20	40	650	-40° to 176°	-4° to 140°

ADVANTAGES

- Small diameter & lightweight – 1,000' weighs less than 8 lbs.
- Ultra tough with very high crush resistance – Flame retardant 3.0mm 950N & 4.0mm 650N, Plenum 750N
- Uses industry-standard fiber
- Flame Retardant & UV Stabilized Black and Plenum OFNP UL listed White
- Class leading combination of size, crush resistance, corrugated flexibility & fiber density



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CORR2FLEX® PLENUM

Transmission Performance Specifications - Multimode Fiber					
Core diameter	50 micron		Buffer / acrylate diameter	250 micron	
Cladding diameter	125 micron		Maximum Attenuation at 850 / 1300 nm < 3.5 / 1.0 dB/km		
Fiber Type	Wavelength	Minimum Overfilled Launch Bandwidth	Minimum Effective Modal Bandwidth	Serial 1 Gigabit Ethernet Distance	Serial 10 Gigabit Ethernet Distance
	(nm)	(MHz*km)	(MHz*km)	(m)	(m)
OM1	850/1300	200/500	220/ -	300/550	33/ -
OM2	850/1300	700/500	950/ -	750/600	150/ -
OM3	850/1300	1500/500	2000/ -	1000/600	300/ -
OM4	850/1300	3500/500	4700/ -	1000/600	550/ -
Operation Temp. Range -40°F to +158°F (-40°C to +70°C)					

CORR2FLEX® FLAME RETARDANT

Transmission Performance Specification		
Item	Single mode	Multimode
Specification	G657 A1	OM3
Attenuation (850 / 1300 nm)	n/a	≤ 2.3/0.60 dB/km
Attenuation (1310 / 1550 nm)	≤ 0.35/0.21 dB/km	n/a
Attenuation at 1625 nm	< 0.24 dB/km	n/a
Refractive Index at 1310nm, 1550nm	1.467, 1.468	n/a
Refractive Index at 850nm, 1300nm	n/a	1.482, 1.477
Proof test	0.69 GPa (100 kpsi), 1% min.	0.69 GPa (100 kpsi), 1% min.
Cladding diameter	125 ± 0.7µm	125 ± 1.0µm
Coated diameter	235µm to 245µm	237µm to 247µm
Core/Cladding concentricity error	≤ 0.5µm	≤ 1.0µm
Coating concentricity error	≤ 12µm	≤ 6µm
Macro bend loss	(1550 nm)	(850 and 1300 nm)
10 turns at 50mm diameter	≤ 0.01 dB	≤ 0.2 dB
10 turns at 30mm diameter	≤ 0.2 dB	n/a
1 turn at 20mm diameter	≤ 0.2 dB	n/a
Temp. range (operation) -60°C to +85°C	max attenuation change ≤ 0.05 dB/km	max attenuation change ≤ 0.1 dB/km
Coating Strip Force	1.3 to 8.9 N	1.3 to 8.9 N



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