

# Smaller Cables, Bigger Possibilities.










CORNING



## MiniXtend® Cable Portfolio

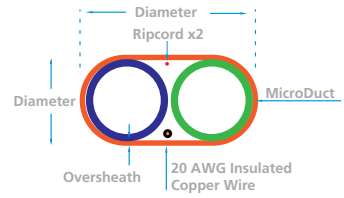
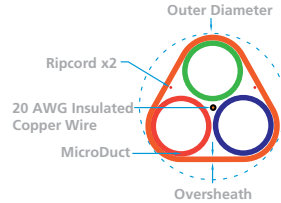
Outlined below are the smallest and optimal MicroDuct sizes for each cable in the MiniXtend® cable portfolio.

	MiniXtend® Cables With Binderless® FastAccess® Technology			MiniXtend® HD Cables			
							
Fiber Count	12-72 F	96 F	144 F	144 F	192 F	216 F	288 F
Cable OD	5.4 mm	6.3 mm	8.1 mm	6.3 mm	7.5 mm	8.0 mm	9.7 mm
Smallest Duct ID (fill ratio)	8.0 mm (68%)	8.0 mm (79%)	10.0 mm (81%)	8.0 mm (79%)	10.0 mm (75%)	10.0 mm (80%)	12.0 mm (81%)
Optimal Duct ID (fill ratio)	10.0 mm (54%)	10.0 mm (63%)	12.0 mm (68%)	10.0 mm (63%)	12.0 mm (63%)	12.0 mm (67%)	14.0 mm (69%)

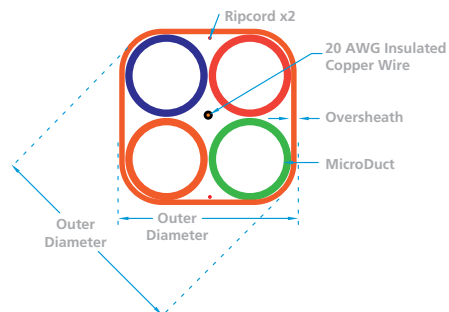
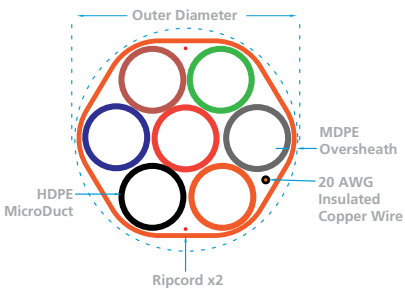
\*Corning's patented Binderless® FastAccess® Technology refers to the combination of a Corning FastAccess Technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and waterblocking tapes.

# MicroDuct Sizes and Configurations

MicroDuct Size (OD/ID mm)	Application Direct Install/Direct Buried	Configuration (No. of MicroDucts)
10/8	Direct Install (in an existing conduit system)	Single, 2-way, 3-way, 4-way, 7-way
12.7/10	Direct Install/Direct Buried (functions well in both environments)	Single, 2-way, 3-way, 4-way, 7-way
12/10	Direct Install	Single, 2-way, 3-way, 4-way, 7-way
14/10	Direct Buried	Single, 2-way, 3-way, 4-way, 7-way
16/12	Direct Buried	Single, 2-way, 3-way, 4-way, 7-way
16/13	Direct Install	Single, 2-way, 3-way, 4-way, 7-way
18/14	Direct Buried	Single, 2-way, 3-way, 4-way, 7-way



Each configuration is available with a toning wire. Aerial versions are also available.



# Filling an Empty Conduit with Individual MicroDucts

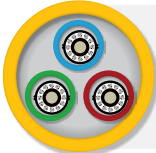

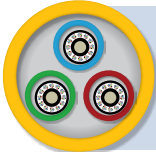
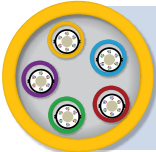
Recommended MicroDuct Fill Ratios: Number of MicroDucts per standard duct size  
SDR11 or SDR13.5

Duct Size	16 mm/13 mm	12.7 mm/10 mm	12 mm/10 mm	10 mm/8 mm
1-in	N/A	2	2	3
1.25-in	N/A	3	4	5
1.5-in	2	4	6	8
2-in	5	7	8	10

Numbers can vary based on the path of the existing conduit, bend radii, elevation changes, distances, and installation method.

## Optimized Duct Space Utilization (*Empty Duct Scenario*)

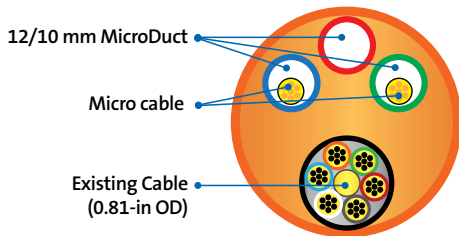
An empty 1.25-in duct can accommodate 3 x 12.7/10\* mm, or 5 x 10/8 mm MicroDucts

<b>MiniXtend® Cables</b> with Binderless® FastAccess® Technology	 <ul style="list-style-type: none"> <li>3 x 12.7/10 mm MicroDucts</li> <li>• 3 x 144 F cables</li> <li>• 8.1 mm OD</li> <li>• Total = <u>432 F</u></li> </ul>	 <ul style="list-style-type: none"> <li>5 x 10/8 mm MicroDucts</li> <li>• 5 x 96 F cables</li> <li>• 6.3 mm OD</li> <li>• Total = <u>480 F</u></li> </ul>
	 <ul style="list-style-type: none"> <li>3 x 12.7/10 mm MicroDucts</li> <li>• 3 x 216 F cables</li> <li>• 8.0 mm OD</li> <li>• Total = <u>648 F</u></li> </ul>	 <ul style="list-style-type: none"> <li>5 x 10/8 mm MicroDucts</li> <li>• 5 x 144 F cables</li> <li>• 6.3 mm OD</li> <li>• Total = <u>720 F</u></li> </ul>

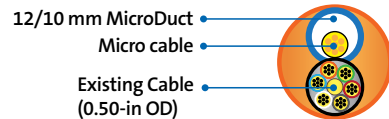
## MicroDuct OverRides in Existing Occupied Conduit

MicroDuct OverRides offer a cost-effective solution for congested pathways with existing cables. Utilizing the existing pathway offsets the cost of new construction while gaining capacity for expansion. Some common examples of MicroDuct OverRides are shown here, but many other variations are possible.

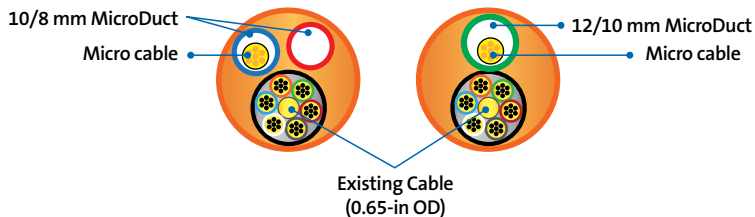
### 2-in Duct



### 1-in Duct



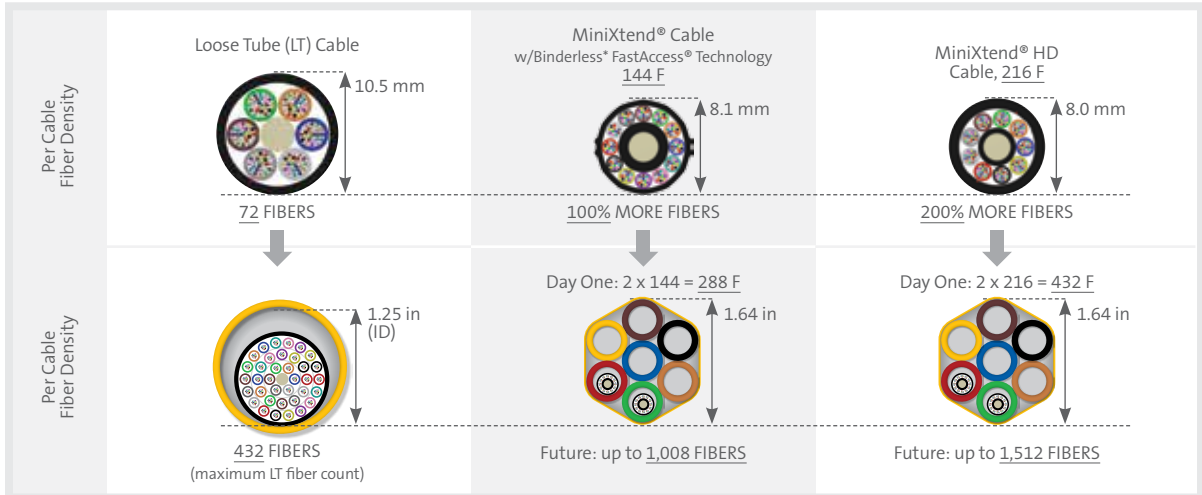
### 1.25-in Duct



# MiniXtend® Cables

Micro technology means higher density and a smaller footprint today AND the simplest path to future growth tomorrow.

- Defer your capital investment — only install the fiber you need today
- Easy technology upgrades
- Empty pathways available for future growth



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