MiniXtend Plenum Microcable Flow Ribbon

Jetted micro cables utilize 12F Flow Ribbon 200 µm color-coded optical fibers surrounded by dielectric strength members with a flexible, flame-retardant outer jacket and water-blocking components to protect against water intrusion. These cables are ideal for point-to-point applications for indoor and campus indoor/outdoor projects.

The small cable design is optimized for jetting installation method in microducts. This cable complies with ICEAS-83-596 interconnect standard and can be used as a stand-alone cable for indoor applications. When conducting outdoor, point-to-point, installations, it is recommended to transition from outdoor to indoor environments within microducts, and mid-spanning is not advised along outdoor routes. The cable can be routed outside microduct in indoor environments. The flexible, flame-retardant (OFNP) jacket and non-preferential bend axis allow easy installation in space-constrained areas, and the all-dielectric cable constructions requires no grounding or bonding.

Features and Benefits

Microduct/Airblown optimized

Cable is jetted/blown to maximize speed of install and minimize the amount of labor needed to install cable

Bend-Improved Single-mode 190 µm Diameter

ITU-T G.652.D and G.657.A1-compliant 190 micron single-mode fiber with a 9.2 µm MFD maintains full compatibility with existing fiber networks

Flow Ribbon Technology

Allows for smaller cable designs and easier routing in hardware. Flow Ribbons are compatible with both 200 µm and 250 µm commercially available splicers

Reduced outer cable diameter

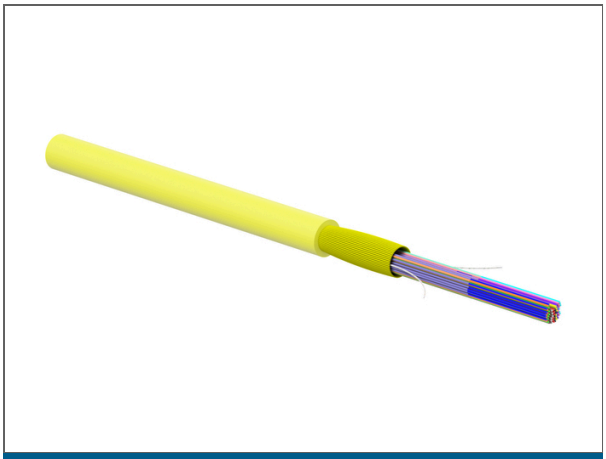
High fiber density in microduct systems

Compact and light

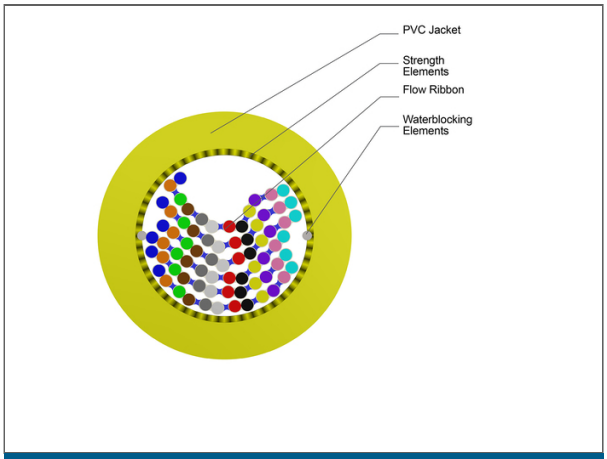
CapEx-optimized installations and upgrades

Compatible with CCH Pigtailed Cassettes

Compatible with existing 250 µm splicer ecosystem. 200 µm pitched ribbon allows for 200 µm and 250 µm splicing.

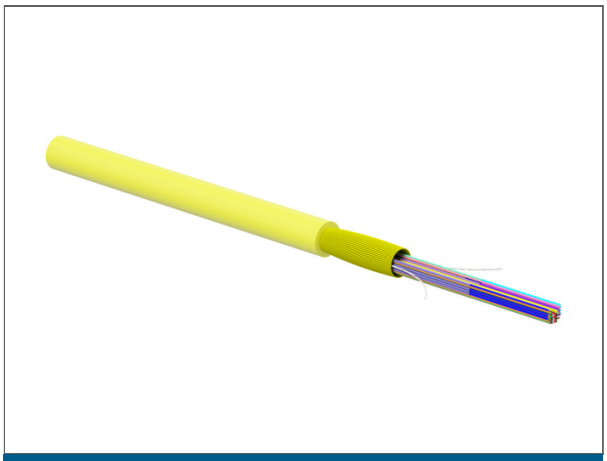


MiniXtend Plenum Microcable Flow Ribbon, 72F, Bend-Improved Single-mode (OS2)



MiniXtend Plenum Microcable Flow Ribbon, 72F, Bend-Improved Single-mode (OS2)

MiniXtend Plenum Microcable Flow Ribbon



MiniXtend Plenum Microcable Flow Ribbon, 48F, Bend-Improved Single-mode (OS2)

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Temperature Range	
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Installation	0 °C - 60 °C (32 °F - 140 °F)
Temperature Range, Operation	0 °C - 70 °C (32 °F - 158 °F)

Design Characteristics Cable			
Fiber Count	Buffer Tube Diameter	Ribbons per Tube	Fibers per Ribbon
24		2	12
48		4	12
72	81 mm (3.19 in)	6	12
72 - 96		8	12

CORNING

Mechanical Characteristics Cable						
Fiber Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Cable Weight
24	3.6 mm (0.14 in)	54 mm (2.13 in)	36 mm (1.42 in)	100 N (22.48 lbf)	30 N (6.74 lbf)	12.9 kg/km (8.67 lb/1000 ft)
48	3.8 mm (0.15 in)	76 mm (2.99 in)	38 mm (1.5 in)	100 N (22.48 lbf)	30 N (6.74 lbf)	14 kg/km (9.41 lb/1000 ft)
72	18.8 mm (0.74 in)	282 mm (11.1 in)	188 mm (7.4 in)	400 N (89.92 lbf)	400 N (89.92 lbf)	295 kg/km (198.23 lb/1000 ft)
72	4 mm (0.16 in)	80 mm (3.15 in)	40 mm (1.57 in)	100 N (22.48 lbf)	30 N (6.74 lbf)	17 kg/km (11.42 lb/1000 ft)
96	18.8 mm (0.74 in)	282 mm (11.1 in)	188 mm (7.4 in)	400 N (89.92 lbf)	400 N (89.92 lbf)	297 kg/km (199.57 lb/1000 ft)
96	4.55 mm (0.18 in)	91 mm (3.58 in)	45.5 mm (1.79 in)	100 N (22.48 lbf)	30 N (6.74 lbf)	22.7 kg/km (15.25 lb/1000 ft)

Transmission Performance

Single-mode					
Fiber Name	G.657.A1 Optical fiber with 190-micron outer diameter	Single-mode (OS2)	G.657.A1 Optical fiber with 190-micron outer diameter	Single-mode (OS2)	G.657.A1 Optical fiber with 190-micron outer diameter
Performance Option Code	61	01	61	01	61
Fiber Category	G.652.D/G.657.A1	OS2	G.652.D/G.657.A1	OS2	G.652.D/G.657.A1
Wavelengths	1310 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm	1310 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm	1310 nm / 1550 nm

MiniXtend Plenum Microcable Flow Ribbon

Single-mode					
Fiber Code	Z	E	Z	E	Z
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km	0.4 dB/km / 0.4 dB/km / 0.3 dB/km	0.4 dB/km / 0.4 dB/km / 0.3 dB/km	0.4 dB/km / 0.4 dB/km / 0.3 dB/km	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

RoHS COMPLIANT

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