

Rollable Ribbon & High-Count Fiber Cable

Up to 6,912 Fibers | Mass-Fusion Splice Ready | Hyperscale Infrastructure & Long-Haul

PRODUCT OVERVIEW

Rollable ribbon fiber cable represents the highest-density fiber deployment technology available for hyperscale data center backbone, long-haul telecom, and metro network infrastructure. Unlike traditional flat ribbon, rollable ribbon units flex for compact cable cross-sections while retaining the ability to be fanned out flat for ultra-fast mass-fusion splicing — achieving splice times as low as 30 seconds per 12-fiber ribbon. Mirabel Energy USA rollable ribbon cables are available from 144 to 6,912 fiber counts in OS2 single-mode construction, enabling a single cable to replace dozens of smaller count tubes in space- and conduit-constrained environments. Engineered for long-term reliability in duct, direct burial, and aerial deployments.

6,912 Fibers Max Fiber Count	~30 sec / ribbon Splice Time	vs. Stranded Density Gain	Rollable Ribbon Construction
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APPLICATIONS

- Hyperscale data center backbone and intra-campus high-count runs
- Long-haul and metro fiber network — conduit-constrained corridors
- Telecom central office and PoP (Point of Presence) feeder cable
- Utility fiber backbone alongside transmission line ROW
- Municipal and smart city fiber-to-the-premises (FTTP/FTTH) builds
- Any application requiring maximum fiber density per conduit unit area

KEY SPECIFICATIONS

- Rollable ribbon units — compact cross-section, mass-fusion splice ready
- Fiber counts: 144 · 288 · 432 · 864 · 1728 · 3456 · 6912
- OS2 9/125µm ITU-T G.652.D — attenuation ≤0.35 dB/km @ 1550nm
- Mass-fusion splicing: 12-fiber ribbon in ~30 seconds
- Gel-free / dry-block water blocking — no gel cleanup at splice points
- Central tube and stranded loose-tube constructions available
- Armored (interlocked steel), direct burial, and duct variants
- Compatible with standard ribbon fan-out kits and MTP/MPO cassette systems

TECHNICAL SPECIFICATIONS

Parameter	Standard OS2 Ribbon	High-Count (≥1728F)
Fiber Type	OS2 9/125µm	OS2 9/125µm
Fiber Counts	144–864	1728–6912
Atten. @ 1310nm	≤0.40 dB/km	≤0.40 dB/km
Atten. @ 1550nm	≤0.35 dB/km	≤0.35 dB/km
Ribbon Width	12-fiber std.	12-fiber std.
Jacket Type	LSZH / PE / Armored	PE / Armored
Water Blocking	Dry-block (gel-free)	Dry-block (gel-free)

PART / ORDER INFO 144 · 288 · 432 · 864 · 1728 · 3456 · 6912 fiber counts	STOCKING LOCATIONS Reno, NV · Houston, TX Project-phased delivery available	OEM REPRESENTATIVE GCP Energy LLC — Salt Lake City, UT portal.gcpenergy.us
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