

# All-Dielectric Ribbon Fiber

All-Dielectric · Rollable Ribbon · OSP Rated · No Metal — 12 to 144 Strand

ALL-DIELECTRIC

MASS-FUSION READY

HV CORRIDOR SAFE

OS2

FRP/Aramid

Strength Members

~30 sec/rib

Splice Time

-40°C to 70°C

Temp Range

12-144F

Strand Range

## PRODUCT OVERVIEW

Mirabel Energy USA All-Dielectric Ribbon Fiber cable combines rollable ribbon mass-splice efficiency with a fully non-metallic construction — ideal for installation on energized utility corridors, in conduit with lightning exposure, or anywhere grounding of metallic components is not feasible. Rollable ribbon units allow a compact cable cross-section and enable rapid 12-fiber mass-fusion splicing (~30 seconds per ribbon), significantly reducing field splice time on high-count runs. FRP central member and aramid yarn provide tensile strength without any metallic components.

## APPLICATIONS

- HV corridor conduit — no grounding required
- High-count substation fiber — fast restoration
- Utility ROW mass-splice backbone conduit runs
- Telecom / ISP high-fiber-count conduit builds
- Municipal FTTP / FTTH infrastructure
- Hyperscale campus OSP — space-constrained conduit
- Renewable energy — lightning-prone areas

## CONSTRUCTION DESCRIPTION

- Fiber Element:** 250µm coated OS2 9/125µm
- Ribbon Unit:** 12-fiber rollable ribbon — flat fan-out
- Water Block:** Gel-free dry-block tape — no cleanup
- Central Strength:** FRP rod — non-metallic
- Outer Strength:** Aramid yarn — no metallic components
- Jacket:** HDPE black, OSP/UV-rated — single jacket
- Dielectric Cert.:** No metallic components throughout
- Splice Prep:** Fan-out flat for 12-fiber mass fusion

## TECHNICAL SPECIFICATIONS

PARAMETER	STANDARD RIBBON	ROLLABLE RIBBON
<b>Fiber Type</b>	OS2 9/125µm G.652.D	OS2 9/125µm G.652.D
<b>Attenuation @ 1310nm</b>	≤0.40 dB/km	≤0.40 dB/km
<b>Attenuation @ 1550nm</b>	≤0.35 dB/km	≤0.35 dB/km
<b>Metallic Components</b>	None — fully dielectric	None — fully dielectric
<b>Ribbon Width</b>	12-fiber flat	12-fiber rollable (compact)
<b>Splice Time / Ribbon</b>	~45 seconds	~30 seconds
<b>Strength Members</b>	FRP central + aramid yarn	FRP central + aramid yarn
<b>Water Blocking</b>	Gel-free dry-block	Gel-free dry-block
<b>Operating Temperature</b>	-40°C to +70°C	-40°C to +70°C
<b>Jacket Material</b>	HDPE black, UV-rated	HDPE black, UV-rated
<b>Standards</b>	Telcordia GR-20, IEC 60794-2, TIA-598	Same

## STRAND COUNT — ORDERING INFORMATION

FIBER COUNT	AVAILABILITY	OD (mm)	WEIGHT (kg/km)	MBR (mm)	ORDER CODE
12 Strand	IN STOCK — Reno/Houston	9.8	88	196	MIR-ADR-012