

Armored Ribbon Fiber Optic

Single Armor · Rollable Ribbon · OSP Rated · Direct Burial — 12 to 144 Strands

- DIRECT BURIAL
- MASS-FUSION READY
- GEL-FREE
- OS2

CST / IAC Armor Type	~30 sec/rib Splice Time
-40°C to 70°C Temp Range	12-144F Strand Range

PRODUCT OVERVIEW

Mirabel Energy USA Armored Ribbon Fiber combines the high-density mass-fusion splice advantage of rollable ribbon construction with full single-armor mechanical protection for OSP and direct burial deployment. Rollable ribbon units allow compact cable cross-section during installation while fanning flat for ultra-fast 12-fiber mass-fusion splicing (~30 seconds per ribbon). Single corrugated steel tape (CST) or interlocked aluminum (IAC) armor provides crush and rodent protection. Gel-free dry-block eliminates cleanup.

APPLICATIONS

- High-count direct burial campus backbone
- Utility ROW fiber — mass-splice efficiency
- Telecom feeder with conduit size constraints
- Underground inter-building high-density runs
- Substation and transmission fiber
- Municipal fiber-to-premises FTTP builds
- Armored OSP runs needing fast restoration

CONSTRUCTION DESCRIPTION

- Fiber Element:** 250µm coated OS2 9/125µm
- Ribbon Unit:** 12-fiber rollable ribbon, flat fan-out capable
- Water Block:** Gel-free dry-block tape between ribbons
- Strength Members:** Central FRP rod, aramid over-wrap
- Armor:** Interlocked Al (IAC) or corrugated steel tape (CST)
- Inner Jacket:** Polyethylene (PE) — black
- Outer Jacket:** HDPE direct burial rated, UV-stable
- Splice Prep:** Fan-out flat for 12-fiber mass fusion

TECHNICAL SPECIFICATIONS

PARAMETER	STANDARD RIBBON	ROLLABLE RIBBON
Fiber Type	OS2 9/125µm G.652.D	OS2 9/125µm G.652.D
Attenuation @ 1310nm	≤0.40 dB/km	≤0.40 dB/km
Attenuation @ 1550nm	≤0.35 dB/km	≤0.35 dB/km
Ribbon Width	12-fiber flat	12-fiber rollable
Splice Time / Ribbon	~45 seconds	~30 seconds
Crush Resistance (CST)	≥3,000 N/cm	≥3,000 N/cm
Crush Resistance (IAC)	≥2,200 N/cm	≥2,200 N/cm
Water Blocking	Dry-block (gel-free)	Dry-block (gel-free)
Operating Temperature	-40°C to +70°C	-40°C to +70°C
Jacket Material	HDPE black, UV-rated	HDPE black, UV-rated
Burial Rating	Direct burial OK	Direct burial OK
Standards	Telcordia GR-20, IEC 60794-3, 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	11.2	115	224	MR-ARR-012