

Armored & Direct Burial Fiber Optic Cable

Steel / Dielectric Armor | Gel-Free Dry-Block | Industrial, Utility & Underground Infrastructure

PRODUCT OVERVIEW

Mirabel Energy USA armored and direct burial fiber cables are engineered for the mechanical, moisture, and environmental demands of industrial, utility, and underground infrastructure deployments. Interlocked aluminum or corrugated steel armor provides crush resistance and rodent protection for exposed runs in equipment rooms, industrial plants, and cable tray environments. Gel-free dry-block water blocking eliminates the cleanup associated with traditional gel-filled designs — significantly accelerating splice and termination operations. Direct burial variants are rated for installation in soil without conduit, making them the preferred choice for utility substation fiber, inter-building campus runs, and renewable energy site fiber infrastructure.

Steel / Al Armor Crush Resistance	Gel-Free Dry Water Block	Per NEC/NESC Burial Depth	12 – 144 Fiber Counts
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APPLICATIONS

- Industrial plant and manufacturing facility fiber backbone
- Utility substation control building and relay house interconnects
- Renewable energy (solar / wind) site fiber infrastructure
- Direct buried inter-building campus runs — no conduit required
- Exposed industrial cable tray and raceway in harsh environments
- Mining facility communications and control fiber runs

KEY SPECIFICATIONS

- Interlocked aluminum armor (IAC) or corrugated steel armor options
- Gel-free dry-block water blocking — fast, clean splicing and termination
- Rated for direct burial per NEC Article 770 / NESC guidelines
- OS2 single-mode (9/125µm) and OM4 multi-mode (50/125µm) available
- Fiber counts: 12 · 24 · 48 · 96 · 144 strands
- All-dielectric (ADCF) designs available for areas with lightning exposure
- Crush load resistance: ≥2,200 N/cm (interlocked armor)
- Operating temperature: -40°C to 70°C | LSZH and PE jacket options

TECHNICAL SPECIFICATIONS

Parameter	Armored (IAC)	Direct Burial
Armor Type	Interlocked Al/Steel	None (PE jacket)
Crush Resistance	≥2,200 N/cm	≥1,000 N/cm
Water Blocking	Dry-block	Dry-block / Gel
Min Install Temp	-40°C	-20°C
Jacket Material	LSZH / PVC	PE (black, UV-rated)
Fiber Counts	12–144	12–144
Burial Rating	In conduit	Direct burial OK

PART / ORDER INFO 12 · 24 · 48 · 96 · 144 strand counts OS2 and OM4 Armored or direct burial	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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