

HV Cable Accessories — Joints, Terminations & GIS Interfaces

69kV – 500kV | Factory-Made Prefabricated | Dry-Type & Fluid-Filled · GIS · Overhead Transition

PRODUCT OVERVIEW

A high voltage cable system is only as reliable as its accessories — joints, terminations, and transition interfaces that represent the highest concentration of electrical stress and the most frequent source of in-service failure in underground transmission systems. Mirabel Energy USA HV cable accessories are factory-made, prefabricated dry-type assemblies designed to match the electrical and mechanical performance of the cable system they connect. Pre-molded stress-control elements, proprietary interface materials, and precision-dimensioned components eliminate field workmanship variables that are the primary cause of accessory failures. The accessories portfolio covers straight joints for cable-to-cable connections, outdoor sealing ends for overhead line transitions, GIS (Gas Insulated Switchgear) plug-in terminations for substation interfaces, and transformer direct-connection bushings. Transition accessories for fluid-filled to extruded XLPE interfaces are available for legacy network modernization projects.

69kV – 500kV Voltage Range	Prefabricated Joint Type	GIS / OHL / Xfmr Termination Types	IEEE 404 Qualified Standard
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APPLICATIONS

- Straight joints — cable-to-cable connection at drum length intervals
- Outdoor sealing ends — underground to overhead line transition
- GIS plug-in terminations — cable to gas-insulated switchgear interface
- Transformer terminations — direct connection to transformer bushings
- Transition joints — XLPE to SCFF or HPOF fluid-filled cable interface
- Repair joints — emergency fault restoration for in-service cable circuits

KEY SPECIFICATIONS

- Factory-made prefabricated design — eliminates field workmanship variables
- Pre-molded stress-control cone — precision-engineered for cable screen cutback
- Dry-type design (no field-applied oil or resin for most joint types)
- Covers 69kV–500kV voltage class — XLPE and EPR cable systems
- GIS plug-in terminations: IEC 62271-209 compliant, SF6 interface sealed
- Outdoor sealing ends: RTV silicone sheds, UV and pollution-resistant
- Transformer terminations: oil-to-XLPE interface, compatible with major OEM bushings
- Type tested per IEC 60840 / IEC 62067 / IEEE 404 — test certificates available

TECHNICAL SPECIFICATIONS

Accessory Type	Voltage Range	Standard / Interface
Straight Joint	69kV – 500kV	IEC 60840 / 62067
Outdoor Sealing End	69kV – 500kV	IEC 60840 / 62067
GIS Plug-In Term.	69kV – 245kV	IEC 62271-209
Transformer Term.	69kV – 245kV	IEC 60840 / OEM spec
Transition Joint	69kV – 345kV	IEEE 404 / CIGRÉ
Repair Joint	69kV – 345kV	IEC 60840
FAT Included	All types	PD + HVAC voltage test

CONDUCTOR SIZES & CONFIGS 69kV–500kV All accessory types FAT included Engineering support available	STOCKING & PROCUREMENT Reno, NV · Houston, TX Long-lead and project-phased delivery supported	APPLICATION ENGINEERING GCP Energy LLC — Salt Lake City, UT Ampacity, thermal, and system design support available
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