

# Cold Shrink Tubes & Cable Accessories

EPDM Halogen-Free | Peroxide- or Sulfur-Cured | Model: AN102 / AN103 / AN104

## PRODUCT OVERVIEW

Mirabel Energy USA cold shrink cable accessories are manufactured from halogen-free EPDM rubber using peroxide or sulfur curing — delivering superior mechanical flexibility, dielectric integrity, and long-term environmental sealing performance. Pre-stretched over a removable plastic core, cold shrink products install without heat guns, open flames, or special tooling. Once the core is removed, the tube contracts uniformly around the cable, creating a self-pressurized 'living seal' that expands and contracts with thermal cycling and cable movement. Ideal for environments where open flames are prohibited, including oil and gas facilities, refineries, offshore platforms, and underground utility vaults.

## APPLICATIONS

- Medium voltage cable splicing and termination (up to 35 kV)
- Cable insulation, sealing, and environmental protection
- Oil rigs, refineries, and environments prohibiting open flame
- Cold climate installations where heat shrink performance degrades
- Underground vault and direct burial cable joint protection
- Substation and switchgear cable entry sealing

## KEY FEATURES & SPECIFICATIONS

- EPDM halogen-free construction — peroxide or sulfur cured (per ISO 37 / IEC 60502-4 / GB/T 12706-4)
- Pre-stretched on removable core — no heat gun, no flame, no special tools
- Living seal — self-pressurizes and tracks cable diameter under thermal cycling
- Operating temperature: -55°C to 90°C (EPDM) / -60°C to 200°C (Silicone)
- Rated up to 35 kV dielectric service
- Excellent resistance to UV, ozone, moisture, and chemical exposure
- Self-extinguishing flame resistance | Halogen-free | RoHS compliant
- Models AN102 / AN103 / AN104 — custom sizes available

## TECHNICAL DATA

Property	EPDM Value	Silicone Value	Test Method
Tensile Strength	≥8.0 MPa	≥6.0 MPa	ISO 37
Elongation at Break	≥350%	≥400%	ISO 37
Operating Temp. Range	-55°C to 90°C	-60°C to 200°C	IEC 60502-4
Voltage Rating	Up to 35 kV	Up to 35 kV	IEC 60502-4
Dielectric Strength	≥25 kV/mm	≥20 kV/mm	IEC 243
Water Absorption	≤0.5%	≤0.3%	ASTM D570
Flame Resistance	Self-extinguishing	Self-extinguishing	UL 224
Halogen-Free	Yes (EPDM)	Yes	IEC 60754

### PART NUMBERS

AN102 · AN103 · AN104  
Custom sizes available on request

### STOCKING LOCATIONS

Reno, NV · Houston, TX  
Standard & custom lengths stocked

### OEM REPRESENTATIVE

GCP Energy LLC  
portal.gcpenergy.us · Salt Lake City, UT