

15kV Medium Voltage Power Cable — MV-90 / MV-105

XLPE & EPR Insulated | Copper Tape Shielded | Utility Distribution & Substation Feeder

PRODUCT OVERVIEW

Mirabel Energy USA 15kV medium voltage cable is the most widely specified voltage class in North American utility distribution and industrial power systems — covering the majority of underground residential distribution (URD), substation feeder, and industrial MV infrastructure. Available in MV-90 and MV-105 ratings with XLPE or EPR insulation, these cables are designed for installation in wet and dry areas, conduit and duct systems, direct burial, exposed sunlight, and anywhere superior electrical performance is required. Copper tape shielded construction is standard for utility-grade applications, with concentric neutral designs available for direct buried URD service. Jacket types are available that permit conduit installation without lubrication, and all constructions are rated for 1,000 lbs/ft maximum sidewall pressure.

90°C Normal Operation	130°C Emergency Overload	250°C Short-Circuit Fault	1,000 lbs/ft Max Sidewall Pressure
15 kV (110kV BIL) Voltage Rating	90°C / 105°C Temp Rating	XLPE or EPR Insulation	1,000 lbs/ft Sidewall Press.

APPLICATIONS

- Utility underground distribution feeders (15kV class)
- Substation to distribution transformer primary cable
- Industrial plant MV switchgear tie cables and bus feeds
- Data center and campus utility 15kV service entrance
- Direct buried URD (Underground Residential Distribution) service
- Renewable energy collection circuits — wind and solar farms

KEY SPECIFICATIONS

- 15kV (110kV BIL) voltage rating — MV-90 and MV-105 temperature grades
- XLPE insulation: superior dielectric strength, ideal for high thermal loads
- EPR insulation: exceptional flexibility and water-tree resistance for wet locations
- Copper tape shield — standard for utility and industrial shielded applications
- Concentric neutral (CN) construction available for direct buried URD service
- Lube-free jacket options — conduit installation without lubrication
- Rated for wet/dry, conduit, duct, direct burial, and sunlight exposure
- Conductors from #2 AWG through 1000 kcmil — single and triplexed configurations

TECHNICAL SPECIFICATIONS

Parameter	MV-90 (XLPE)	MV-105 (EPR)
Voltage Rating	15kV / 110kV BIL	15kV / 110kV BIL
Conductor Temp (Normal)	90°C	105°C
Conductor Temp (Emerg.)	130°C	140°C
Conductor Temp (Fault)	250°C	250°C
Min. Insulation Thick.	175 mils	175 mils
Shield Type	Cu tape / CN	Cu tape / CN
Jacket	PVC / LSZH / CSPE	PVC / LSZH / CSPE

CONDUCTOR SIZES & CONFIGS #2 AWG – 1000 kcmil 1/C, 3/C, Triplexed Cu tape or CN shield	STOCKING LOCATIONS Reno, NV · Houston, TX Standard & project-phased delivery	OEM REPRESENTATIVE GCP Energy LLC — Salt Lake City, UT portal.gcpenergy.us
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