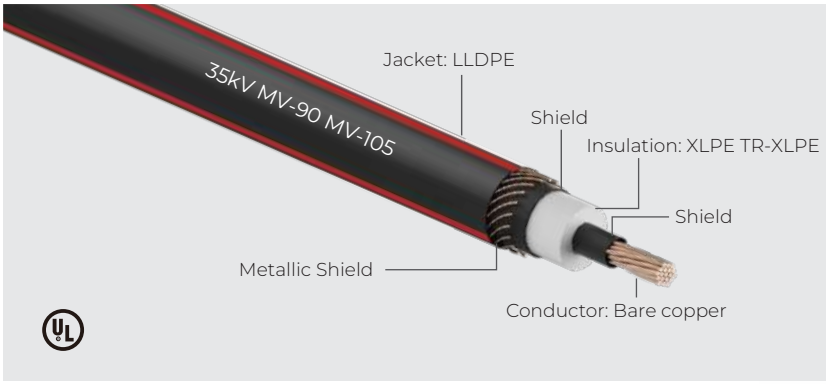
SUNKEAN

35kV MV-90 MV-105



Advantage

- Direct burial
- UV resistant
- Low moisture absorption
- More economical

Characteristics

- **Rated Voltage**
  35kV
- **Temperature Rating**
  90°C, 105°C
- Designed to operate continuously at a conductor temperature not exceeding

90°C for normal operations

130°C for emergency overload

250°C for short circuit

- **According to**
  UL1072

Cable Structure

- **Conductor:** Soft annealed uncoated copper compacted Class B per ASTM B496
- **Inner Layer:** XLPE TR-XLPE
- **Metallic Shield:** Helically applied, annealed, solid bare copper wires
- **Jacket:** Linear Low-Density Polyethylene (LLDPE)

Test Item

• **Hot Creep Tests**	acc. to UL1072
• **Deformation**	acc. to UL1072
• **Limited Smoke Test**	acc. to UL1072
• **UV-resistant**	acc. to UL1072

Application

Primary power and distribution circuits in industrial and commercial installations, power circuits in generating plants where line to ground fault current are within shield capabilities. May be used in wet or dry locations, installed in raceways, duct, and open air, aerially or directly buried as permitted by NEC.

100%Insulation Levels (345 mil)

Cross Section (AWG)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω/km, 20°C)
4/0	12.8	8.76	2.03	42.2	2217	0.167
500	19.6	8.76	2.79	52.1	4229	0.0709
750	24.1	8.76	2.79	57.0	5583	0.0472
1000	27.8	8.76	2.79	60.8	6868	0.0354
1250	31.2	8.76	2.79	64.2	8333	0.0283

133%Insulation Levels (420 mil)

Cross Section (AWG)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω/km, 20°C)
4/0	12.8	10.67	2.03	46.0	2455	0.167
500	19.6	10.67	2.79	55.9	4523	0.0709
750	24.1	10.67	2.79	60.8	5905	0.0472
1000	27.8	10.67	2.79	64.6	7213	0.0354
1250	31.2	10.67	2.79	68.0	8698	0.0283

Note: Please refer to the above technical reference number for your reference, please check the technical section of our department for your request.

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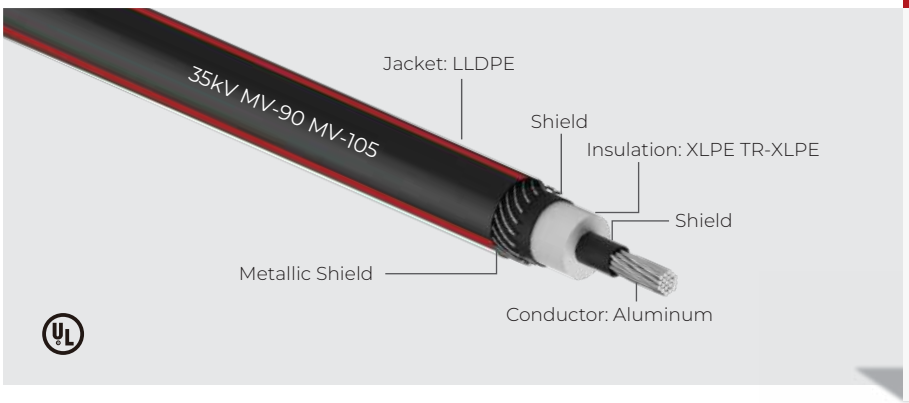

Advantage

- Direct burial
- UV resistant
- Low moisture absorption
- More economical

Characteristics

- **Rated Voltage**
  35kV
- **Temperature Rating**
  90°C, 105°C
- Designed to operate continuously at a conductor temperature not exceeding

90°C for normal operations

130°C for emergency overload

250°C for short circuit

- **According to**
  UL1072

Cable Structure

- **Conductor:** hard drawn Aluminum-1350 compacted Class B per ASTM B400
- **Inner Layer:** XLPE TR-XLPE
- **Metallic Shield:** Helically applied, annealed, solid bare copper wires
- **Jacket:** Linear Low-Density Polyethylene (LLDPE)

Test Item

- **Hot Creep Tests** acc. to UL1072
- **Deformation** acc. to UL1072
- **Limited Smoke Test** acc. to UL1072
- **UV-resistant** acc. to UL1072

Application

Primary power and distribution circuits in industrial and commercial installations, power circuits in generating plants where line to ground fault current are within shield capabilities. May be used in wet or dry locations, installed in raceways, duct, and open air, aerially or directly buried as permitted by NEC.

100%Insulation Levels (345 mil)

Cross Section (AWG)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω/km, 20°C)
4/0	12.8	8.76	2.03	42.2	1549	0.274
500	19.6	8.76	2.79	52.1	2679	0.116
750	24.1	8.76	2.79	57.0	3250	0.077
1000	27.8	8.76	2.79	60.8	3765	0.0581
1250	31.2	8.76	2.79	64.2	4402	0.0462

133%Insulation Levels (420 mil)

Cross Section (AWG)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω/km, 20°C)
4/0	12.8	10.67	2.03	46.0	1788	0.274
500	19.6	10.67	2.79	55.9	2972	0.116
750	24.1	10.67	2.79	60.8	3572	0.077
1000	27.8	10.67	2.79	64.6	4109	0.0581
1250	31.2	10.67	2.79	68.0	4766	0.0462

Note: Please refer to the above technical reference number for your reference, please check the technical section of our department for your request.