MEDIUM VOLTAGE
MEDIUM VOLTAGE ASSEMBLIES

APPLICATIONS
Type SH Medium Voltage Power Cable Assemblies are designed for heavy-duty MV applications that require temporary or permanent power including substations, switchgear, transformers, and utility applications.

FEATURES
• HiPot testing report provided for each assembly
• Assemblies are HiPot tested at NETA recommended DC values
• Excellent flexibility
• Highly resistant to ozone, sun, weather and flame
• Rated and flexible at –40°C
• Excellent impact and abrasion resistant
• Oil and heat resistant

AVAILABLE OPTIONS
• 5kV, 15kV, and 35kV
• MV-105 Cable
• Lug, Loadbreak Elbow, and Deadbreak Elbow Terminations
• Heat Shrink Logo ID
• Custom lengths
Specifications contained herein reflect current data and are subject to change. Values are nominal and/or approximate.

MEDIUM VOLTAGE ASSEMBLIES

AVAILABLE OPTIONS
• 5kV and 15kV
• MV-105 Cable
• Heat Shrink Logo ID
• Custom lengths
• Lug, Loadbreak Elbow, and Deadbreak Elbow Terminations

<table>
<thead>
<tr>
<th>Part Number</th>
<th>AWG</th>
<th>Termination A</th>
<th>Termination B</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH15KV40BXXXAHH</td>
<td>4/0</td>
<td>2 Hole CU Lug (CS)</td>
<td>2 Hole CU Lug (CS)</td>
<td>4/0 Type SH 15kV with Lugs on Both Terminations</td>
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<tr>
<td>SH15KV40BXXXAHLE</td>
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<td>2 Hole CU Lug (CS)</td>
<td>200A Loadbreak Elbow</td>
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<tr>
<td>SH15KV40BXXXAHDE</td>
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<td>2 Hole CU Lug (CS)</td>
<td>600A Deadbreak Elbow</td>
<td>4/0 Type SH 15kV with Lug and Deadbreak Elbow</td>
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<tr>
<td>SH15KV40BXXADEDE</td>
<td>4/0</td>
<td>600A Deadbreak Elbow</td>
<td>600A Deadbreak Elbow</td>
<td>4/0 Type SH 15kV Deadbreak Elbows on Both Terminations</td>
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</tbody>
</table>

Note: XXX in part number equals desired length: 025, 050, 075, 100, 200, 300

Termination Options Available: Lug, Loadbreak Elbow, Deadbreak Elbow

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TYPE SH 15kV MEDIUM VOLTAGE POWER CABLE

SPECIFICATIONS & STANDARDS
According to ICEA S-75-381/NEMA WC-58, ASTM B172, ASTM B 33

APPLICATIONS
Single Conductor Type SH 15000V Medium Voltage Portable Power Cable is designed for use on mobile substation equipment and other industrial applications

CONSTRUCTION
Conductors – Annealed flexible stranded tin coated copper Class I in accordance with ASTM B-172 and ICEA S-75-381
Conductor shielding – Semi-conducting tape + layer over the conductor
Insulation – Ethylene-propylene rubber (EPR)
Insulation shield – Semi-conducting tape + Composite tinned copper/nylon braid. Covering minimum 60%
Cable consist of EPR insulated central conductor with helically applied copper drain wire shield conductors over the insulation semi-conductive tape shield. Reinforcing tape over insulation shield
Jacket – Black heavy-duty thermosetting polychloroprene jacket

FEATURES
• Excellent flexibility
• Highly resistant to ozone, sun, weather and flame
• Rated and flexible at –40°C
• Excellent impact and abrasion resistant
• Oil and heat resistant

TYPE SH 15kV MEDIUM VOLTAGE POWER CABLE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Power Conductor Size</th>
<th>Conductor Stranding</th>
<th>Nominal Insulation Thickness</th>
<th>Nominal Jacket Thickness</th>
<th>Approx. O.D.</th>
<th>Approx. Weight</th>
<th>Ampacity 40ºC Ambient Temp.</th>
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<tbody>
<tr>
<td></td>
<td>AWG/MCM</td>
<td></td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>lbs./1000 ft.</td>
<td>kgs/km</td>
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<tr>
<td>#2SH-15KV</td>
<td>2AWG-1</td>
<td>259x0.0157</td>
<td>0.210</td>
<td>0.155</td>
<td>1.165</td>
<td>847</td>
<td>1261</td>
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<tr>
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<td>1AWG-1</td>
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<tr>
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<tr>
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</table>

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MEDIUM VOLTAGE MV-105 5kV

APPLICATIONS
Industrial and commercial applications including chemical and petrochemical plants; electrical utility plants; water treatment facilities; textile, steel, and paper mills; airports; shopping malls; military bases; medical facilities; and sports stadiums

CONSTRUCTION
Conductors – Class B compact annealed uncoated copper
Conductor shielding – Extruded layer of semi-conducting compound applied under simultaneous triple extrusion process
Insulation – Extruded layer of 105°C rated Ethylene Propylene Rubber (EPR)
Insulation shield – Extruded layer of semi-conducting compound applied by triple extrusion process
Metallic shield – 5 mil bare copper tape applied helically with an overlap
Jacket – Extruded layer of black sunlight resistant Polyvinyl Chloride (PVC)

MV-105 5KV/8KV CABLE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Power Conductor Size</th>
<th>Nominal Insulation Thickness</th>
<th>Diameter Over Insulation</th>
<th>Jacket Thickness</th>
<th>Outer Diameter</th>
<th>Cable Weight</th>
<th>Ampacities*</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AWG/MCM</td>
<td>mils</td>
<td>in.</td>
<td>mils</td>
<td>in.</td>
<td>lbs/kft</td>
<td>Isolated in Air</td>
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<tr>
<td>#2MV105-05KV</td>
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<td>60</td>
<td>0.85</td>
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<tr>
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<td>2/0AWG-1</td>
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<td>0.69</td>
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<td>0.95</td>
<td>675</td>
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<tr>
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<td>0.80</td>
<td>80</td>
<td>1.05</td>
<td>985</td>
<td>445</td>
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<td>250MV105-05KV</td>
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<td>0.85</td>
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<td>1.10</td>
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<td>350MV105-05KV</td>
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<td>1.40</td>
<td>80</td>
<td>1.70</td>
<td>3690</td>
<td>1200</td>
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</table>

* Ampacities in “Underground Duct” per NEC 2011 Table 310.60(C) (77). Ampacities “Isolated in Air” per NEC 2011 Table 310.60(C) (69).
Ampacities “Direct Buried” per NEC 2011 Table 310.60(C) (81).
**APPLICATIONS**

Industrial and commercial applications including chemical and petrochemical plants; electrical utility plants; water treatment facilities; textile, steel, and paper mills; airports; shopping malls; military bases; medical facilities; and sports stadiums

**CONSTRUCTION**

- **Conductors** – Class B compact annealed uncoated copper
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- **Metallic shield** – 5 mil bare copper tape applied helically with an overlap
- **Jacket** – Extruded layer of black sunlight resistant Polyvinyl Chloride (PVC)

**MV-105 15KV CABLE**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Power Conductor Size</th>
<th>Nominal Insulation Thickness</th>
<th>Diameter Over Insulation</th>
<th>Jacket Thickness</th>
<th>Outer Diameter</th>
<th>Cable Weight</th>
<th>Ampacities*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AWG/MCM</td>
<td>mils</td>
<td>in.</td>
<td>mils</td>
<td>in.</td>
<td>lbs./kft</td>
<td>Isolated in Air</td>
</tr>
<tr>
<td>#2MV105-15KV</td>
<td>2AWG-1</td>
<td>220</td>
<td>0.75</td>
<td>80</td>
<td>1.03</td>
<td>503</td>
<td>215</td>
</tr>
<tr>
<td>#1MV105-15KV</td>
<td>1AWG-1</td>
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<td>80</td>
<td>1.05</td>
<td>700</td>
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<tr>
<td>1/0MV105-15KV</td>
<td>1/0AWG-1</td>
<td>220</td>
<td>0.82</td>
<td>80</td>
<td>1.09</td>
<td>770</td>
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<tr>
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<td>2/0AWG-1</td>
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<td>0.92</td>
<td>80</td>
<td>1.17</td>
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<td>4/0MV105-15KV</td>
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<td>110</td>
<td>1.75</td>
<td>4060</td>
<td>1185</td>
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</tbody>
</table>

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**FEATURES**

- Durable construction allows for installation in practically any environment
- 105°C insulation rating allows for higher ampacity rating of cable
- Continuous conductor operating temperature 105°C
- Emergency overload rating 140°C
- Short circuit rating 250°C
- UL listed as Type MV-105
- Oil and sunlight resistant
- Flame retardant PVC jacket
- Listed for CT use for sizes 1/0 AWG and larger

**SPECIFICATIONS & STANDARDS**

Medium Voltage 15kV 133% Copper Conductor, Copper Tape Shielded

**APPLICATIONS**

Industrial and commercial applications including chemical and petrochemical plants; electrical utility plants; water treatment facilities; textile, steel, and paper mills; airports; shopping malls; military bases; medical facilities; and sports stadiums

**CONSTRUCTION**

- **Conductors** – Class B compact annealed uncoated copper
- **Conductor shielding** – Extruded layer of semi-conducting compound applied under simultaneous triple extrusion process
- **Insulation** – Extruded layer of 105°C rated Ethylene Propylene Rubber (EPR)
- **Insulation shield** – Extruded layer of semi-conducting compound applied by triple extrusion process
- **Metallic shield** – 5 mil bare copper tape applied helically with an overlap
- **Jacket** – Extruded layer of black sunlight resistant Polyvinyl Chloride (PVC)

**MV-105 15KV CABLE**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Power Conductor Size</th>
<th>Nominal Insulation Thickness</th>
<th>Diameter Over Insulation</th>
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<td>1185</td>
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</tbody>
</table>

* Ampacities in “Underground Duct” per NEC 2011 Table 310.60(C) (77). Ampacities “Isolated in Air” per NEC 2011 Table 310.60(C) (69). Ampacities “Direct Buried” per NEC 2011 Table 310.60(C) (81).
Assembled Cable
- Type W Assemblies and Pigtails
- Type PPE Assemblies and Pigtails
- 50A Twist-Lock Extensions
- SC Feeder Cable Assemblies and Pigtails
- SC Banded Cam Lock Cable Extensions
- Quad Box Assemblies
- Edison Extensions/5-15 Straight Blade Extensions
- 20A and 30A Locking Extensions
- Pin & Sleeve Extensions
- Medium Voltage
  - Type SJOOW 300V Flexible Power Cord
  - Type SOOW 600V Flexible Power Cord
  - Type SC 600V Entertainment Cable
  - Type PPE 2000V Portable Power Cable
  - Type W 2000V Power Cable
  - Type W Multi-Conductor 2/C, 3/C, 4/C, 5/C
  - Type DLO (Diesel Locomotive Cable)

Cut to Length Cable
- Type SOOW 600V Flexible Power Cord
- Medium Voltage MV-105 5kV/8kV
- Medium Voltage MV-105 15kV
- Jumper Cable 5kV/8kV
- Type SH 5kV Medium Voltage Power Cable
- Type SH 15kV Medium Voltage Power Cable
- Power Distribution Boxes

Cable Accessories
- Connectors
- Cable Straps and Markers
- Industrial Strength Cable Protector Ramps
- Heavy-Duty Collapsible Containers

INDUSTRIAL

EAST COAST HEADQUARTERS
1812C OLDE HOMESTEAD LANE
LANCASTER, PA 17601

WEST COAST OPERATIONS
28365 CONSTELLATION ROAD
VALENCIA, CA 91355

GENERGCABLE.COM
Phone 717-584-0375
Fax 717-704-8445
Toll-Free 800-308-1330

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