

*gen***E**rgy™

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



MEDIUM VOLTAGE ASSEMBLIES

Part Number	AWG	Termination A	Termination B	Description
SH15KV40BXXXAHH	4/0	2 Hole CU Lug (CS)	2 Hole CU Lug (CS)	4/0 Type SH 15kV with Lugs on Both Terminations
SH15KV40BXXXAHLE	4/0	2 Hole CU Lug (CS)	200A Loadbreak Elbow	4/0 Type SH 15kV with Lug and Loadbreak Elbow
SH15KV40BXXXAHDE	4/0	2 Hole CU Lug (CS)	600A Deadbreak Elbow	4/0 Type SH 15kV with Lug and Deadbreak Elbow
SH15KV40BXXXADEDE	4/0	600A Deadbreak Elbow	600A Deadbreak Elbow	4/0 Type SH 15kV Deadbreak Elbows on Both Terminations

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

Part Number	AWG	Termination A	Termination B	Description
SH15KV40B025PH	4/0	2 Hole CU Lug (CS)	Bare	4/0 Type SH 15kV 25' Pigtail with Lug and Bare
SH15KV40B050PH	4/0	2 Hole CU Lug (CS)	Bare	4/0 Type SH 15kV 50' Pigtail with Lug and Bare

Termination Options Available: **Lug, Loadbreak Elbow, Deadbreak Elbow**

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TYPE SH 5kV 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 5000V 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 poly-chloroprene 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 5KV MEDIUM VOLTAGE POWER CABLE

Part Number	Power Conductor Size	Conductor Stranding	Nominal Insulation Thickness	Nominal Jacket Thickness	Approx. O.D.	Approx. Weight		Ampacity 40°C Ambient Temp.
	AWG/MCM		in.	in.		in.	lbs./1000 ft.	kgs/km
#2SH-05KV	2AWG-1	259x0.0157	0.110	0.125	0.902	575	856	195
#1SH-05KV	1AWG-1	259x0.0177	0.110	0.125	0.953	659	981	225
1/0SH-05KV	1/0AWG-1	266x0.0197	0.110	0.140	1.028	786	1170	260
2/0SH-05KV	2/0AWG-1	342x0.0193	0.110	0.140	1.055	890	1324	299
3/0SH-05KV	3/0AWG-1	418x0.0197	0.110	0.155	1.154	1075	1600	345
4/0SH-05KV	4/0AWG-1	532x0.0197	0.110	0.155	1.201	1240	1846	400
250SH-05KV	250MCM-1	627x0.0197	0.120	0.155	1.303	1435	2136	444
300SH-05KV	300MCM-1	740x0.0197	0.120	0.170	1.398	1655	2462	496
350SH-05KV	350MCM-1	888x0.0193	0.120	0.170	1.441	1858	2765	549
500SH-05KV	500MCM-1	1221x0.0197	0.120	0.190	1.630	2471	3677	688

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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 poly-chloroprene 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

Part Number	Power Conductor Size	Conductor Stranding	Nominal Insulation Thickness	Nominal Jacket Thickness	Approx. O.D.	Approx. Weight		Ampacity 40°C Ambient Temp.
	AWG/MCM		in.	in.		in.	lbs./1000 ft.	kgs/km
#2SH-15KV	2AWG-1	259x0.0157	0.210	0.155	1.165	847	1261	195
#1SH-15KV	1AWG-1	259x0.0177	0.210	0.155	1.216	944	1405	225
1/0SH-15KV	1/0AWG-1	266x0.0197	0.210	0.155	1.260	1052	1566	259
2/0SH-15KV	2/0AWG-1	342x0.0193	0.210	0.155	1.307	1183	1761	298
3/0SH-15KV	3/0AWG-1	418x0.0197	0.210	0.170	1.398	1382	2057	343
4/0SH-15KV	4/0AWG-1	532x0.0197	0.210	0.170	1.453	1570	2337	397
250SH-15KV	250MCM-1	627x0.0197	0.210	0.170	1.543	1771	2636	440
300SH-15KV	300MCM-1	740x0.0197	0.210	0.170	1.606	1926	2920	491
350SH-15KV	350MCM-1	888x0.0193	0.210	0.190	1.658	2192	3261	543
500SH-15KV	500MCM-1	1221x0.0197	0.210	0.190	1.807	2701	4123	678

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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)

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 5kV 133%/8kV 100% Copper Conductor, Copper Tape Shielded
UL 1072, ASTM B-496, ICEA S-93-639, ICEA S-97-682, AEIC CS8-2000, IEEE 383

MV-105 5KV/8KV CABLE

Part Number	Power Conductor Size	Nominal Insulation Thickness	Diameter Over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities*		
	AWG/MCM	mils	in.	mils	in.	lbs./kft	Isolated in Air	Direct Buried	Underground Duct
#2MV105-05KV	2AWG-1	115	0.55	60	0.78	425	215	250	155
#1MV105-05KV	1AWG-1	115	0.60	60	0.80	515	250	280	180
1/0MV105-05KV	1/0AWG-1	115	0.65	60	0.85	580	290	320	210
2/0MV105-05KV	2/0AWG-1	115	0.69	80	0.95	675	330	365	235
3/0MV105-05KV	3/0AWG-1	115	0.75	80	1.00	860	385	415	270
4/0MV105-05KV	4/0AWG-1	115	0.80	80	1.05	985	445	465	310
250MV105-05KV	250MCM-1	115	0.85	80	1.10	1130	495	510	345
350MV105-05KV	300MCM-1	115	0.95	80	1.20	1480	615	615	410
500MV105-05KV	350MCM-1	115	1.10	80	1.35	2000	775	745	505
750MV105-05KV	500MCM-1	115	1.30	80	1.55	2870	1000	910	630
1000MV105-05KV	1000MCM-1	115	1.40	80	1.70	3690	1200	1055	720

* 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).

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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)

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
 UL 1072, ASTM B-496, ICEA S-93-639, ICEA S-97-682, AEIC CS8-2000, IEEE 383

MV-105 15KV CABLE

Part Number	Power Conductor Size	Nominal Insulation Thickness	Diameter Over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities*		
	AWG/MCM	mils	in.	mils	in.	lbs./kft	Isolated in Air	Direct Buried	Underground Duct
#2MV105-15KV	2AWG-1	220	0.75	80	1.03	503	215	225	165
#1MV105-15KV	1AWG-1	220	0.79	80	1.05	700	250	260	185
1/0MV105-15KV	1/0AWG-1	220	0.82	80	1.09	770	290	295	215
2/0MV105-15KV	2/0AWG-1	220	0.86	80	1.13	865	335	335	245
3/0MV105-15KV	3/0AWG-1	220	0.92	80	1.17	1040	385	380	275
4/0MV105-15KV	4/0AWG-1	220	0.97	80	1.21	1165	445	435	315
250MV105-15KV	250MCM-1	220	1.02	80	1.30	1320	495	475	345
350MV105-15KV	300MCM-1	220	1.12	80	1.40	1680	610	575	415
500MV105-15KV	350MCM-1	220	1.26	80	1.52	2200	765	700	500
750MV105-15KV	500MCM-1	220	1.41	110	1.77	3115	990	865	610
1000MV105-15KV	1000MCM-1	220	1.97	110	1.95	4060	1185	1005	690

* 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).

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Assembled Cable

Type W Assemblies and Pigtails
Type PPE Assemblies and Pigtails
50A Twist-Lock Extensions and Tie-Ins
SC Feeder Cable Assemblies
SC Tie-In Sets and Pigtails
5-Wire Banded Cam Lock Cable Extensions
Quad Stringer Extensions
Edison Extensions/5-15 Straight Blade Extensions
Nema Wiring Device Extensions
Pin & Sleeve Extensions

Medium Voltage

Cut to Length Cable

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)
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

Cable Accessories

Power Distribution Boxes
Connectors
Cable Carrying Straps
Industrial Strength Cable Ramps
Heavy-Duty Collapsible Containers

INDUSTRIAL

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