MV-105

1C & 3C MEDIUM VOLTAGE POWER CABLE

5KV– 25KV 100% & 133% • 35KV 100%

PVC OR CPE JACKET

AmerCable

AmerCable

MV-105 Medium Voltage Power Cables

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Two Jacket Options to Match Your Application

PVC JACKET

CPE JACKET

MV-105
OVERVIEW

AmerCable's MV-105 medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits and for feeders or branch circuits in industrial and commercial installations.

Typical Uses of MV-105 Cable

Primary Power Distribution

- Used in medium-voltage systems from 5 kV to 35 kV.
- Commonly installed in industrial facilities such as data centers, substations, power generation plants, downstream energy facilities and utilities.

Underground or Outdoor Installations

- Suitable for direct burial if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5). Can be embedded in concrete.
- Can be used in tray, conduit or messenger supported in industrial establishments and electric utilities where tray cables are not practical or cost-prohibitive.
- Rated for wet and dry locations.

Feeder and Branch Circuits

- Used to carry power from substations to various equipment or switchgear within a plant or industrial facility.
- Found in solar farms, wind farms and other renewable energy infrastructure to carry power from generation units to transformers or substations.

Key Cable Features

- UL listed as Type MV-105
- Two jacket options - PVC or CPE
  - Excellent mechanical and physical properties
  - Sunlight resistant
- Voltage Rating from 5kV, up to 35kV.
- Temperature Rating of 105°C in normal operation
- Ethylene Propylene Rubber (EPR) insulation meets or exceeds the electrical and physical requirements of UL 1072.
- Bare copper tape shield helically wrapped to provide 100% coverage.

Shortest Lead Times

Best at On-Time Delivery!

MV-105
Medium Voltage Power Cable
Single & Three Conductor • PVC Jacket
5kV 100% & 133% Insulation Level

Conductor
Bare, annealed copper conforming to ASTM B3
and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3
and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets
or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material
assembles the core in
an essentially round configuration.

Jacket
Overall polyvinyl chloride jacket per UL 1072, 90°C temperature rating; low acid gas emission; limited flame spread and excellent corrosion resistance.

Available with a mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket.
(see pages 9 - 10)

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments
and electric utilities.

FEATURES
- UL listed as Type MV-105
- Flame retardant: UL 1685, may be marked "For CT Use"
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- 1-conductor: 12X cable overall diameter
- 3-conductor: 12x individual shielded conductor, or 7x overall diameter, whichever is greater
- Triplexed 1/C: 12x individual shielded conductor, or 7x overall diameter, whichever is greater

RATINGS & APPROVALS
- 105°C Temperature Rating
- Emergency Temperature Ratings
  - Overload: 140°C
  - Short Circuit: 250°C
- Meets UL 1072 requirements for medium voltage power cables
- Insulation meets electrical and physical requirements of ICEA S-93-639/NEMA WC 74 and UL 1072
- Meets AEIC CS 8 – specification for extruded dielectric shielded power cables rated 5 - 46kV (Qualification Test Requirements).
- Meets ICEA S-97-682 Standard for Shielded Utility Cable Rated for 5-46kV

www.AmerCable.com • 800-643-1516 • amercable.industrial@mattr.com

5kV • 100% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
101	8	90	0.575	231	74	–	95	0.6535	0.6663	0.8332	0.056	0.700
102	6	90	0.605	277	99	–	130	0.4112	0.4192	0.5242	0.053	0.451
103	4	90	0.645	344	130	–	165	0.2585	0.2636	0.3296	0.049	0.293
104	2	90	0.700	448	175	–	205	0.1626	0.1659	0.2075	0.045	0.193
105	1	90	0.735	518	205	–	240	0.1289	0.1315	0.1644	0.043	0.157
106	1/0	90	0.770	603	240	218	270	0.1022	0.1042	0.1304	0.041	0.129
107	2/0	90	0.810	707	275	248	310	0.0811	0.0827	0.1035	0.040	0.107
109	4/0	90	0.950	1035	475	334	405	0.0510	0.0520	0.0653	0.038	0.075
110	250	90	0.995	1179	415	371	445	0.0432	0.0440	0.0553	0.037	0.066
111	350	90	1.095	1546	515	461	580	0.0308	0.0314	0.0396	0.035	0.053
112	500	90	1.215	2074	645	581	635	0.0361	0.0220	0.0280	0.034	0.043
113	750	90	1.460	3001	835	750	780	0.0144	0.0147	0.0191	0.031	0.034

5kV 133% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
118	6	115	0.645	302	110	–	120	0.4112	0.4192	0.5242	0.054	0.452
119	4	115	0.690	374	140	–	160	0.2585	0.2636	0.3296	0.050	0.294
120	2	115	0.745	480	195	–	205	0.1626	0.1659	0.2075	0.047	0.194
121	1	115	0.775	547	225	–	230	0.1289	0.1315	0.1644	0.044	0.158
122	1/0	115	0.815	636	255	218	260	0.1022	0.1042	0.1304	0.043	0.130
123	2/0	115	0.895	779	295	251	295	0.0811	0.0827	0.1035	0.042	0.108
125	4/0	115	0.995	1076	390	334	385	0.0510	0.0520	0.0653	0.039	0.076
126	250	115	1.040	1222	430	371	410	0.0432	0.0440	0.0553	0.038	0.067
127	350	115	1.135	1586	525	458	505	0.0308	0.0314	0.0396	0.036	0.053
128	500	115	1.255	2119	650	574	605	0.0361	0.0220	0.0280	0.034	0.043
129	750	115	1.505	3059	820	743	740	0.0144	0.0147	0.0191	0.032	0.034

5kV 133% INSULATION • 3/C • PVC JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
302	6	6	115	1.305	1099	105	87	95	0.4112	0.4192	0.5242	0.049	0.449
303	4	6	115	1.400	1304	135	114	125	0.2585	0.2636	0.3296	0.045	0.291
304	2	6	115	1.520	1642	185	157	160	0.1626	0.1659	0.2075	0.042	0.191
305	1	4	115	1.590	1913	210	176	185	0.1289	0.1315	0.1644	0.040	0.156
306	1/0	4	115	1.635	2032	240	204	210	0.1022	0.1042	0.1304	0.038	0.127
307	2/0	4	115	1.810	2632	275	233	235	0.0811	0.0827	0.1035	0.037	0.105
309	4/0	3	115	2.030	3619	360	304	305	0.0510	0.0520	0.0653	0.035	0.073
310	250	3	115	2.125	4133	400	333	335	0.0432	0.0440	0.0553	0.034	0.065
311	350	2	115	2.335	5271	490	409	400	0.0308	0.0314	0.0396	0.032	0.051
312	500	1	115	2.595	7100	600	499	485	0.0361	0.0220	0.0280	0.031	0.041
313	750	1/0	115	3.190	10359	745	603	585	0.0144	0.0147	0.0191	0.029	0.033

Single Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor cable triplexed in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with a derating factor of 0.75.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(85) for triplexed insulated single conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, earth thermal resistivity of 90C cm/W..

Three Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(71), for insulated three conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(75), for insulated three conductor copper cable in isolated conduit in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with d derating factor of 0.95.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(83), for insulated three conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100 percent load factor, earth thermal resistivity of 90°C cm / W.

MV-105
Medium Voltage Power Cable
Single & Three Conductor • PVC Jacket
8kV 100% & 133% Insulation Level

Conductor
Bare, annealed copper conforming to ASTM B3 and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material assembles the core in an essentially round configuration.

Jacket
Overall polyvinyl chloride jacket per UL 1072, 90°C temperature rating; low acid gas emission; limited flame spread and excellent corrosion resistance.

Available with a mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket.
(see pages 13 - 16)

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES
UL listed as Type MV-105
- Flame retardant: UL 1685, may be marked "For CT Use"
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- 1-conductor: 12X cable overall diameter
- 3-conductor: 12x individual shielded conductor, or 7x overall diameter, whichever is greater
- Triplexed 1/C: 12x individual shielded conductor, or 7x overall diameter, whichever is greater

8kV 100% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
118	6	115	0.645	302	110	–	120	0.4112	0.4192	0.5242	0.054	0.452
119	4	115	0.690	374	140	–	160	0.2585	0.2636	0.3296	0.050	0.294
120	2	115	0.745	480	195	–	205	0.1626	0.1659	0.2075	0.047	0.194
121	1	115	0.775	547	225	–	230	0.1289	0.1315	0.1644	0.044	0.158
122	1/0	115	0.815	636	255	218	260	0.1022	0.1042	0.1304	0.043	0.130
123	2/0	115	0.895	779	295	251	295	0.0811	0.0827	0.1035	0.042	0.108
125	4/0	115	0.995	1076	390	334	385	0.0510	0.0520	0.0653	0.039	0.076
126	250	115	1.040	1222	430	371	410	0.0432	0.0440	0.0553	0.038	0.067
127	350	115	1.135	1586	525	458	505	0.0308	0.0314	0.0396	0.036	0.053
128	500	115	1.255	2119	650	574	605	0.0361	0.0220	0.0280	0.034	0.043
129	750	115	1.505	3059	820	743	740	0.0144	0.0147	0.0191	0.032	0.034

See Page 1 for Ratings & Approvals

8kV 100% INSULATION • 3/C • PVC JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
302	6	6	115	1.305	1099	105	87	95	0.4112	0.4192	0.5242	0.049	0.449
303	4	6	115	1.400	1304	135	114	125	0.2585	0.2636	0.3296	0.045	0.291
304	2	6	115	1.520	1642	185	157	160	0.1626	0.1659	0.2075	0.042	0.191
305	1	4	115	1.590	1913	210	176	185	0.1289	0.1315	0.1644	0.040	0.156
306	1/0	4	115	1.635	2032	240	204	210	0.1022	0.1042	0.1304	0.038	0.127
307	2/0	4	115	1.810	2632	275	233	235	0.0811	0.0827	0.1035	0.037	0.105
309	4/0	3	115	2.030	3619	360	304	305	0.0510	0.0520	0.0653	0.035	0.073
310	250	3	115	2.125	4133	400	333	335	0.0432	0.0440	0.0553	0.034	0.065
311	350	2	115	2.335	5271	490	409	400	0.0308	0.0314	0.0396	0.032	0.051
312	500	1	115	2.595	7100	600	499	485	0.0361	0.0220	0.0280	0.031	0.041
313	750	1/0	115	3.190	10359	745	603	585	0.0144	0.0147	0.0191	0.029	0.033

8kV • 133% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
134	6	0.140	0.745	342	110	–	120	0.4112	0.4192	0.5242	0.056	0.453
135	4	0.140	0.790	413	140	–	160	0.2585	0.2636	0.3296	0.052	0.295
136	2	0.140	0.880	548	195	–	205	0.1626	0.1659	0.2075	0.049	0.195
137	1	0.140	0.910	617	225	–	230	0.1289	0.1315	0.1644	0.047	0.160
138	1/0	0.140	0.950	709	255	218	260	0.1022	0.1042	0.1304	0.046	0.132
139	2/0	0.140	0.990	818	295	251	295	0.0811	0.0827	0.1035	0.044	0.109
141	4/0	0.140	0.080	1112	390	334	385	0.0510	0.0520	0.0653	0.041	0.077
142	250	0.140	1.125	1255	430	371	410	0.0432	0.0440	0.0553	0.039	0.068
144	350	0.140	1.235	1636	525	458	505	0.0308	0.0314	0.0396	0.038	0.054
146	500	0.140	1.350	2166	650	574	665	0.0361	0.0220	0.0280	0.036	0.044
148	750	0.140	1.610	3114	820	743	740	0.0144	0.0147	0.0191	0.035	0.036

8kV 133% INSULATION LEVEL • 3/C • PVC JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
332	6	6	0.140	1.510	1185	105	87	95	0.4112	0.4192	0.5242	0.051	0.450
333	4	6	0.140	1.610	1412	125	114	125	0.2585	0.2636	0.3296	0.047	0.292
334	2	6	0.140	1.755	1358	185	157	160	0.1626	0.1659	0.2075	0.043	0.192
335	1	4	0.140	1.825	1596	210	176	185	0.1289	0.1315	0.1644	0.042	0.157
336	1/0	4	0.140	1.915	1874	240	204	210	0.1022	0.1042	0.1304	0.041	0.129
337	2/0	4	0.140	2.000	2168	275	233	235	0.0811	0.0827	0.1035	0.039	0.106
339	4/0	2	0.140	2.225	3750	360	304	305	0.0510	0.0520	0.0653	0.037	0.074
340	250	2	0.140	2.315	4220	400	333	335	0.0432	0.0440	0.0553	0.035	0.066
342	350	2	0.140	2.520	4598	490	409	400	0.0308	0.0314	0.0396	0.034	0.052
343	500	1	0.140	2.650	6122	600	499	485	0.0361	0.0220	0.0280	0.032	0.042
344	750	1/0	0.140	3.210	10115	745	603	585	0.0144	0.0147	0.0191	0.031	0.034

See Page 2 for Technical Notes

MV-105
Medium Voltage Power Cable
Single & Three Conductor • PVC Jacket
15kV 100% & 133% Insulation Level

Conductor
Bare, annealed copper conforming to ASTM B3 and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material assembles the core in an essentially round configuration.

Jacket
Mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket. Black jacket is standard.

Available with a Polyvinyl Chloride (PVC) jacket.
See pages 1 - 2.

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES
- UL listed as Type MV-105
- Flame retardant: UL 1685, IEEE 1202 and CSA FT4 vertical tray flame tests
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- Fixed position: 7 x cable overall diameter
- During pulling: 12 x cable overall diameter

15kV • 100% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
150	2	175	0.945	601	195	–	205	0.1626	0.1659	0.2075	0.051	0.196
151	1	175	0.975	672	225	–	230	0.1289	0.1315	0.1644	0.049	0.161
152	1/0	175	1.015	765	255	218	260	0.1022	0.1042	0.1304	0.048	0.133
153	2/0	175	1.055	877	295	251	295	0.0811	0.0827	0.1035	0.045	0.110
155	4/0	175	1.155	1181	390	334	385	0.0510	0.0520	0.0653	0.042	0.078
156	250	175	1.210	1342	430	371	410	0.0432	0.0440	0.0553	0.041	0.069
158	350	175	1.300	1708	525	458	505	0.0308	0.0314	0.0396	0.039	0.055
160	500	175	1.415	2244	650	574	665	0.0361	0.0220	0.0280	0.037	0.044
162	750	175	1.605	3164	820	743	740	0.0144	0.0147	0.0191	0.035	0.036

See Page 9 for Ratings & Approvals

15kV 133% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
164	2	220	1.005	700	195	–	205	0.1626	0.1659	0.2075	0.054	0.198
165	1	220	1.035	774	225	–	230	0.1289	0.1315	0.1644	0.051	0.162
166	1/0	220	1.070	867	255	218	260	0.1022	0.1042	0.1304	0.049	0.134
167	2/0	220	1.115	987	295	251	295	0.0811	0.0520	0.1035	0.047	0.111
169	4/0	220	1.210	1295	390	334	385	0.0510	0.0440	0.0653	0.044	0.079
170	250	220	1.275	1473	430	371	410	0.0432	0.0827	0.0553	0.043	0.070
171	350	220	1.370	1856	525	458	505	0.0308	0.0314	0.0396	0.040	0.056
172	500	220	1.480	2411	650	574	605	0.0361	0.0220	0.0280	0.038	0.045
173	750	220	1.780	3478	820	743	740	0.0144	0.0147	0.0191	0.036	0.037

15kV 100% INSULATION LEVEL • 3/C • PVC JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
346	2	6	175	1.900	2001	185	157	160	0.1626	0.1659	0.2075	0.046	0.193
347	1	4	175	1.965	2263	210	176	185	0.1289	0.1315	0.1644	0.044	0.158
348	1/0	4	175	2.050	2575	240	204	210	0.1022	0.1042	0.1304	0.043	0.130
349	2/0	4	175	2.140	2918	275	233	235	0.0811	0.0827	0.1035	0.041	0.107
351	4/0	2	175	2.355	3969	360	304	305	0.0510	0.0520	0.0653	0.038	0.075
352	250	2	175	2.450	4449	400	333	335	0.0432	0.0440	0.0553	0.037	0.066
354	350	2	175	2.660	5607	490	409	400	0.0308	0.0314	0.0396	0.035	0.053
355	500	1	175	3.030	7623	600	499	485	0.0361	0.0220	0.0280	0.034	0.043
356	750	1/0	175	3.400	10573	745	603	585	0.0144	0.0147	0.0191	0.032	0.034

15kV 133% INSULATION LEVEL • 3/C • PVC JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
357	2	6	220	2.045	2401	185	157	160	0.1626	0.1659	0.2075	0.049	0.195
358	1	4	220	2.110	2729	210	176	185	0.1289	0.1315	0.1644	0.047	0.160
359	1/0	4	220	2.190	3069	240	204	210	0.1022	0.1042	0.1304	0.045	0.131
360	2/0	4	220	2.275	3343	275	233	235	0.0811	0.0827	0.1035	0.043	0.109
362	4/0	3	220	2.490	4345	360	304	305	0.0510	0.0520	0.0653	0.040	0.076
363	250	3	220	2.625	4957	400	333	335	0.0432	0.0440	0.0553	0.039	0.068
364	350	2	220	2.895	6349	490	409	400	0.0308	0.0314	0.0396	0.037	0.054
365	500	1	220	3.155	8359	600	499	485	0.0361	0.0220	0.0280	0.035	0.043
366	750	1/0	220	3.655	11657	745	603	585	0.0144	0.0147	0.0191	0.033	0.035

Single Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor cable triplexed in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with a derating factor of 0.75.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(85) for triplexed insulated single conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, earth thermal resistivity of 90C cm/W..

Three Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(71), for insulated three conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(75), for insulated three conductor copper cable in isolated conduit in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with d derating factor of 0.95.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(83), for insulated three conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100 percent load factor, earth thermal resistivity of 90°C cm / W.

MV-105
Medium Voltage Power Cable
Single & Three Conductor • PVC Jacket
25kV 100% & 133% Insulation Level • 35kV 100% Insulation

Conductor
Bare, annealed copper conforming to ASTM B3 and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material assembles the core in an essentially round configuration.

Jacket
Overall polyvinyl chloride jacket per UL 1072, 90°C temperature rating; low acid gas emission; limited flame spread and excellent corrosion resistance.

Available with a mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket.
(see pages 11 - 12)

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES
UL listed as Type MV-105
- Flame retardant: UL 1685, may be marked "For CT Use"
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- 1-conductor: 12X cable overall diameter
- 3-conductor: 12x individual shielded conductor, or 7x overall diameter, whichever is greater
- Triplexed 1/C: 12x individual shielded conductor, or 7x overall diameter, whichever is greater

25kV • 100% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
175	1	260	1.170	856	225	–	230	0.1289	0.1315	0.1644	0.053	0.163
176	1/0	260	1.205	951	255	218	260	0.1022	0.1042	0.1304	0.052	0.135
177	2/0	260	1.245	1069	295	248	295	0.0811	0.0827	0.1035	0.049	0.112
178	4/0	260	1.345	1388	390	334	385	0.0510	0.0520	0.0653	0.046	0.080
179	250	260	1.385	1539	430	368	410	0.0432	0.0440	0.0553	0.044	0.071
188	350	260	1.545	2013	525	454	505	0.0308	0.0314	0.0396	0.043	0.057
190	500	260	1.665	2580	650	566	665	0.0361	0.0220	0.0280	0.040	0.047
191	750	260	1.860	3546	820	728	740	0.0144	0.0147	0.0191	0.038	0.038

See Page 1 for Ratings & Approvals

25kV 133% INSULATION • 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
180	1/0	345	1.350	1178	255	218	260	0.1022	0.1042	0.1304	0.054	0.144
181	2/0	345	1.385	1296	295	248	295	0.0811	0.0827	0.1035	0.052	0.115
183	4/0	345	1.485	1632	390	334	385	0.0510	0.0520	0.0653	0.049	0.072
184	250	345	1.530	1797	430	368	410	0.0432	0.0440	0.0553	0.047	0.061
185	350	345	1.625	2198	525	454	505	0.0308	0.0314	0.0396	0.044	0.043
186	500	345	1.805	2890	650	566	605	0.0361	0.0220	0.0280	0.043	0.042
187	750	345	2.055	3945	820	728	740	0.0144	0.0147	0.0191	0.039	0.020

25kV 100% INSULATION LEVEL • 3/C • PVC JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
369	1	4	260	2.355	2870	210	176	185	0.1289	0.1315	0.1644	0.049	0.161
370	1/0	4	260	2.440	3189	240	204	210	0.1022	0.1042	0.1304	0.048	0.133
371	2/0	4	260	2.530	3561	275	233	235	0.0811	0.0827	0.1035	0.045	0.110
373	4/0	2	260	2.805	4807	360	304	305	0.0510	0.0520	0.0653	0.042	0.077
374	250	2	260	2.900	5312	400	333	335	0.0432	0.0440	0.0553	0.041	0.069
376	350	2	260	3.105	6550	490	409	400	0.0308	0.0314	0.0396	0.039	0.055
377	500	1	260	3.385	8439	600	499	485	0.0361	0.0220	0.0280	0.037	0.044
378	750	1/0	260	3.775	11517	745	603	585	0.0144	0.0147	0.0191	0.035	0.036

35kV 100% INSULATION 1/C • PVC JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
180	1/0	345	1.350	1178	255	218	260	0.1022	0.1042	0.1304	0.054	0.144
181	2/0	345	1.385	1296	295	248	295	0.0811	0.0827	0.1035	0.052	0.115
183	4/0	345	1.485	1632	390	334	385	0.0510	0.0520	0.0653	0.049	0.072
184	250	345	1.530	1797	430	368	410	0.0432	0.0440	0.0553	0.047	0.061
185	350	345	1.625	2198	525	454	505	0.0308	0.0314	0.0396	0.044	0.043
186	500	345	1.805	2890	650	566	605	0.0361	0.0220	0.0280	0.043	0.042
187	750	345	2.055	3945	820	728	740	0.0144	0.0147	0.0191	0.039	0.020

Single Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor cable triplexed in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.
2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with a derating factor of 0.75.
3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(85) for triplexed insulated single conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, earth thermal resistivity of 90C cm/W..

Three Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(71), for insulated three conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.
2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(75), for insulated three conductor copper cable in isolated conduit in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with d derating factor of 0.95.
3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(83), for insulated three conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100 percent load factor, earth thermal resistivity of 90°C cm / W.

Shortest Lead Times

Best at On-Time Delivery

MV-105
Medium Voltage Power Cable
Single & Three Conductor • CPE Jacket
5kV 100% & 133% Insulation Level

Conductor
Bare, annealed copper conforming to ASTM B3
and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3
and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets
or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material
assembles the core in
an essentially round configuration.

Jacket
Mold-cured thermosetting Chlorinated Polyethylene
(CPE) Jacket. Black jacket
is standard.

Available with a Polyvinyl Chloride (PVC) jacket.
See pages 1 - 2.

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES
- UL listed as Type MV-105
- Flame retardant: UL 1685, IEEE 1202 and CSA FT4 vertical tray flame tests
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- Fixed position: 7 x cable overall diameter
- During pulling: 12 x cable overall diameter

RATINGS & APPROVALS
- 105°C Temperature Rating
- Emergency Temperature Ratings
  - Overload: 140°C
  - Short Circuit: 250°C
- Meets UL 1072 requirements for medium voltage power cables
- Insulation meets electrical and physical requirements of ICEA S-93-639/NEMA WC 74 and UL 1072
- Meets AEIC CS 8 – specification for extruded dielectric shielded power cables rated 5 - 46kV (Qualification Test Requirements).
- Meets ICEA S-97-682 Standard for Shielded Utility Cable Rated for 5-46kV

5kV • 100% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
101	8	90	0.575	231	74	–	95	0.6535	0.6663	0.8332	0.056	0.700
102	6	90	0.605	277	99	–	130	0.4112	0.4192	0.5242	0.053	0.451
103	4	90	0.645	344	130	–	165	0.2585	0.2636	0.3296	0.049	0.293
104	2	90	0.700	448	175	–	205	0.1626	0.1659	0.2075	0.045	0.193
105	1	90	0.735	518	205	–	240	0.1289	0.1315	0.1644	0.043	0.157
106	1/0	90	0.770	603	240	218	270	0.1022	0.1042	0.1304	0.041	0.129
107	2/0	90	0.810	707	275	248	310	0.0811	0.0827	0.1035	0.040	0.107
109	4/0	90	0.950	1035	475	334	405	0.0510	0.0520	0.0653	0.038	0.075
110	250	90	0.995	1179	415	371	445	0.0432	0.0440	0.0553	0.037	0.066
111	350	90	1.095	1546	515	461	580	0.0308	0.0314	0.0396	0.035	0.053
112	500	90	1.215	2074	645	581	635	0.0361	0.0220	0.0280	0.034	0.043
113	750	90	1.460	3001	835	750	780	0.0144	0.0147	0.0191	0.031	0.034

5kV 133% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
118	6	115	0.645	302	110	–	120	0.4112	0.4192	0.5242	0.054	0.452
119	4	115	0.690	374	140	–	160	0.2585	0.2636	0.3296	0.050	0.294
120	2	115	0.745	480	195	–	205	0.1626	0.1659	0.2075	0.047	0.194
121	1	115	0.775	547	225	–	230	0.1289	0.1315	0.1644	0.044	0.158
122	1/0	115	0.815	636	255	218	260	0.1022	0.1042	0.1304	0.043	0.130
123	2/0	115	0.895	779	295	251	295	0.0811	0.0827	0.1035	0.042	0.108
125	4/0	115	0.995	1076	390	334	385	0.0510	0.0520	0.0653	0.039	0.076
126	250	115	1.040	1222	430	371	410	0.0432	0.0440	0.0553	0.038	0.067
127	350	115	1.135	1586	525	458	505	0.0308	0.0314	0.0396	0.036	0.053
128	500	115	1.255	2119	650	574	605	0.0361	0.0220	0.0280	0.034	0.043
129	750	115	1.505	3059	820	743	740	0.0144	0.0147	0.0191	0.032	0.034

5kV 133% INSULATION • 3/C • CPE JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
302	6	6	115	1.305	1099	105	87	95	0.4112	0.4192	0.5242	0.049	0.449
303	4	6	115	1.400	1304	135	114	125	0.2585	0.2636	0.3296	0.045	0.291
304	2	6	115	1.520	1642	185	157	160	0.1626	0.1659	0.2075	0.042	0.191
305	1	4	115	1.590	1913	210	176	185	0.1289	0.1315	0.1644	0.040	0.156
306	1/0	4	115	1.635	2032	240	204	210	0.1022	0.1042	0.1304	0.038	0.127
307	2/0	4	115	1.810	2632	275	233	235	0.0811	0.0827	0.1035	0.037	0.105
309	4/0	3	115	2.030	3619	360	304	305	0.0510	0.0520	0.0653	0.035	0.073
310	250	3	115	2.125	4133	400	333	335	0.0432	0.0440	0.0553	0.034	0.065
311	350	2	115	2.335	5271	490	409	400	0.0308	0.0314	0.0396	0.032	0.051
312	500	1	115	2.595	7100	600	499	485	0.0361	0.0220	0.0280	0.031	0.041
313	750	1/0	115	3.190	10359	745	603	585	0.0144	0.0147	0.0191	0.029	0.033

Single Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor cable triplexed in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with a derating factor of 0.75.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(85) for triplexed insulated single conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, earth thermal resistivity of 90C cm/W..

Three Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(71), for insulated three conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(75), for insulated three conductor copper cable in isolated conduit in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with d derating factor of 0.95.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(83), for insulated three conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100 percent load factor, earth thermal resistivity of 90°C cm / W.

MV-105
Medium Voltage Power Cable
Single & Three Conductor • CPE Jacket
8kV 100% & 133% Insulation Level

Conductor
Bare, annealed copper conforming to ASTM B3 and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material assembles the core in an essentially round configuration.

Jacket
Mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket. Black jacket is standard.

Available with a Polyvinyl Chloride (PVC) jacket.
See pages 1 - 2.

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES
- UL listed as Type MV-105
- Flame retardant: UL 1685, IEEE 1202 and CSA FT4 vertical tray flame tests
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- Fixed position: 7 x cable overall diameter
- During pulling: 12 x cable overall diameter

8kV 100% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
118CPE	6	115	0.645	302	110	–	120	0.4112	0.4192	0.5242	0.054	0.452
119CPE	4	115	0.690	374	140	–	160	0.2585	0.2636	0.3296	0.050	0.294
120CPE	2	115	0.745	480	195	–	205	0.1626	0.1659	0.2075	0.047	0.194
121CPE	1	115	0.775	547	225	–	230	0.1289	0.1315	0.1644	0.044	0.158
122CPE	1/0	115	0.815	636	255	218	260	0.1022	0.1042	0.1304	0.043	0.130
123CPE	2/0	115	0.895	779	295	251	295	0.0811	0.0827	0.1035	0.042	0.108
125CPE	4/0	115	0.995	1076	390	334	385	0.0510	0.0520	0.0653	0.039	0.076
126CPE	250	115	1.040	1222	430	371	410	0.0432	0.0440	0.0553	0.038	0.067
127CPE	350	115	1.135	1586	525	458	505	0.0308	0.0314	0.0396	0.036	0.053
128CPE	500	115	1.255	2119	650	574	605	0.0361	0.0220	0.0280	0.034	0.043
129CPE	750	115	1.505	3059	820	743	740	0.0144	0.0147	0.0191	0.032	0.034

See Page 9 for Ratings & Approvals

8kV 100% INSULATION • 3/C • CPE JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
302CPE	6	6	115	1.305	1099	105	87	95	0.4112	0.4192	0.5242	0.049	0.449
303CPE	4	6	115	1.400	1304	135	114	125	0.2585	0.2636	0.3296	0.045	0.291
304CPE	2	6	115	1.520	1642	185	157	160	0.1626	0.1659	0.2075	0.042	0.191
305CPE	1	4	115	1.590	1913	210	176	185	0.1289	0.1315	0.1644	0.040	0.156
306CPE	1/0	4	115	1.635	2032	240	204	210	0.1022	0.1042	0.1304	0.038	0.127
307CPE	2/0	4	115	1.810	2632	275	233	235	0.0811	0.0827	0.1035	0.037	0.105
309CPE	4/0	3	115	2.030	3619	360	304	305	0.0510	0.0520	0.0653	0.035	0.073
310CPE	250	3	115	2.125	4133	400	333	335	0.0432	0.0440	0.0553	0.034	0.065
311CPE	350	2	115	2.335	5271	490	409	400	0.0308	0.0314	0.0396	0.032	0.051
312CPE	500	1	115	2.595	7100	600	499	485	0.0361	0.0220	0.0280	0.031	0.041
313CPE	750	1/0	115	3.190	10359	745	603	585	0.0144	0.0147	0.0191	0.029	0.033

8kV • 133% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)s	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
134CPE	6	140	0.745	342	110	–	120	0.4112	0.4192	0.5242	0.056	0.453
135CPE	4	140	0.790	413	140	–	160	0.2585	0.2636	0.3296	0.052	0.295
136CPE	2	140	0.880	548	195	–	205	0.1626	0.1659	0.2075	0.049	0.195
137CPE	1	140	0.910	617	225	–	230	0.1289	0.1315	0.1644	0.047	0.160
138CPE	1/0	140	0.950	709	255	218	260	0.1022	0.1042	0.1304	0.046	0.132
139CPE	2/0	140	0.990	818	295	251	295	0.0811	0.0827	0.1035	0.044	0.109
141CPE	4/0	140	0.080	1112	390	334	385	0.0510	0.0520	0.0653	0.041	0.077
142CPE	250	140	1.125	1255	430	371	410	0.0432	0.0440	0.0553	0.039	0.068
144CPE	350	140	1.235	1636	525	458	505	0.0308	0.0314	0.0396	0.038	0.054
146CPE	500	140	1.350	2166	650	574	665	0.0361	0.0220	0.0280	0.036	0.044
148CPE	750	140	1.610	3114	820	743	740	0.0144	0.0147	0.0191	0.035	0.036

8kV 133% INSULATION LEVEL • 3/C • CPE JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
332CPE	6	6	140	1.510	1185	105	87	95	0.4112	0.4192	0.5242	0.051	0.450
333CPE	4	6	140	1.610	1412	125	114	125	0.2585	0.2636	0.3296	0.047	0.292
334CPE	2	6	140	1.755	1358	185	157	160	0.1626	0.1659	0.2075	0.043	0.192
335CPE	1	4	140	1.825	1596	210	176	185	0.1289	0.1315	0.1644	0.042	0.157
336CPE	1/0	4	140	1.915	1874	240	204	210	0.1022	0.1042	0.1304	0.041	0.129
337CPE	2/0	4	140	2.000	2168	275	233	235	0.0811	0.0827	0.1035	0.039	0.106
339CPE	4/0	2	140	2.225	3750	360	304	305	0.0510	0.0520	0.0653	0.037	0.074
340CPE	250	2	140	2.315	4220	400	333	335	0.0432	0.0440	0.0553	0.035	0.066
342CPE	350	2	140	2.520	4598	490	409	400	0.0308	0.0314	0.0396	0.034	0.052
343CPE	500	1	140	2.650	6122	600	499	485	0.0361	0.0220	0.0280	0.032	0.042
344CPE	750	1/0	140	3.210	10115	745	603	585	0.0144	0.0147	0.0191	0.031	0.034

See Page 10 for Technical Notes

MV-105
Medium Voltage Power Cable
Single & Three Conductor • CPE Jacket
15kV 100% & 133% Insulation Level

Conductor
Bare, annealed copper conforming to ASTM B3 and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material assembles the core in an essentially round configuration.

Jacket
Overall polyvinyl chloride jacket per UL 1072, 90°C temperature rating; low acid gas emission; limited flame spread and excellent corrosion resistance.

Available with a mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket.
(see pages 11 - 12)

APPLICATION
AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES
UL listed as Type MV-105
- Flame retardant: UL 1685, may be marked "For CT Use"
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS
- 1-conductor: 12X cable overall diameter
- 3-conductor: 12x individual shielded conductor, or 7x overall diameter, whichever is greater
- Triplexed 1/C: 12x individual shielded conductor, or 7x overall diameter, whichever is greater

15kV • 100% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
150CPE	2	175	0.945	601	195	–	205	0.1626	0.1659	0.2075	0.051	0.196
151CPE	1	175	0.975	672	225	–	230	0.1289	0.1315	0.1644	0.049	0.161
152CPE	1/0	175	1.015	765	255	218	260	0.1022	0.1042	0.1304	0.048	0.133
153CPE	2/0	175	1.055	877	295	251	295	0.0811	0.0827	0.1035	0.045	0.110
155CPE	4/0	175	1.155	1181	390	334	385	0.0510	0.0520	0.0653	0.042	0.078
156CPE	250	175	1.210	1342	430	371	410	0.0432	0.0440	0.0553	0.041	0.069
158CPE	350	175	1.300	1708	525	458	505	0.0308	0.0314	0.0396	0.039	0.055
160CPE	500	175	1.415	2244	650	574	665	0.0361	0.0220	0.0280	0.037	0.044
162CPE	750	175	1.605	3164	820	743	740	0.0144	0.0147	0.0191	0.035	0.036

See Page 1 for Ratings & Approvals

15kV 133% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
164CPE	2	220	1.005	700	195	–	205	0.1626	0.1659	0.2075	0.054	0.198
165CPE	1	220	1.035	774	225	–	230	0.1289	0.1315	0.1644	0.051	0.162
166CPE	1/0	220	1.070	867	255	218	260	0.1022	0.1042	0.1304	0.049	0.134
167CPE	2/0	220	1.115	987	295	251	295	0.0811	0.0520	0.1035	0.047	0.111
169CPE	4/0	220	1.210	1295	390	334	385	0.0510	0.0440	0.0653	0.044	0.079
170CPE	250	220	1.275	1473	430	371	410	0.0432	0.0827	0.0553	0.043	0.070
171CPE	350	220	1.370	1856	525	458	505	0.0308	0.0314	0.0396	0.040	0.056
172CPE	500	220	1.480	2411	650	574	605	0.0361	0.0220	0.0280	0.038	0.045
173CPE	750	220	1.780	3478	820	743	740	0.0144	0.0147	0.0191	0.036	0.037

15kV 100% INSULATION LEVEL • 3/C • CPE JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
346CPE	2	6	175	1.900	2001	185	157	160	0.1626	0.1659	0.2075	0.046	0.193
347CPE	1	4	175	1.965	2263	210	176	185	0.1289	0.1315	0.1644	0.044	0.158
348CPE	1/0	4	175	2.050	2575	240	204	210	0.1022	0.1042	0.1304	0.043	0.130
349CPE	2/0	4	175	2.140	2918	275	233	235	0.0811	0.0827	0.1035	0.041	0.107
351CPE	4/0	2	175	2.355	3969	360	304	305	0.0510	0.0520	0.0653	0.038	0.075
352CPE	250	2	175	2.450	4449	400	333	335	0.0432	0.0440	0.0553	0.037	0.066
354CPE	350	2	175	2.660	5607	490	409	400	0.0308	0.0314	0.0396	0.035	0.053
355CPE	500	1	175	3.030	7623	600	499	485	0.0361	0.0220	0.0280	0.034	0.043
356CPE	750	1/0	175	3.400	10573	745	603	585	0.0144	0.0147	0.0191	0.032	0.034

15kV 133% INSULATION LEVEL • 3/C • CPE JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
357CPE	2	6	220	2.045	2401	185	157	160	0.1626	0.1659	0.2075	0.049	0.195
358CPE	1	4	220	2.110	2729	210	176	185	0.1289	0.1315	0.1644	0.047	0.160
359CPE	1/0	4	220	2.190	3069	240	204	210	0.1022	0.1042	0.1304	0.045	0.131
360CPE	2/0	4	220	2.275	3343	275	233	235	0.0811	0.0827	0.1035	0.043	0.109
362CPE	4/0	3	220	2.490	4345	360	304	305	0.0510	0.0520	0.0653	0.040	0.076
363CPE	250	3	220	2.625	4957	400	333	335	0.0432	0.0440	0.0553	0.039	0.068
364CPE	350	2	220	2.895	6349	490	409	400	0.0308	0.0314	0.0396	0.037	0.054
365CPE	500	1	220	3.155	8359	600	499	485	0.0361	0.0220	0.0280	0.035	0.043
366CPE	750	1/0	220	3.655	11657	745	603	585	0.0144	0.0147	0.0191	0.033	0.035

Single Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor cable triplexed in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with a derating factor of 0.75.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(85) for triplexed insulated single conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, earth thermal resistivity of 90C cm/W..

Three Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(71), for insulated three conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.

2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(75), for insulated three conductor copper cable in isolated conduit in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with d derating factor of 0.95.

3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(83), for insulated three conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100 percent load factor, earth thermal resistivity of 90°C cm / W.

MV-105
Medium Voltage Power Cable

CPE Jacket

25kV 100% & 133% Insulation Level • Single & Three Conductor
35kV 100% Insulation • Single Conductor

Conductor
Bare, annealed copper conforming to ASTM B3 and Class B Compact stranded in accordance with ASTM B496.

Grounding Conductor
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation Shield Nonmetallic
Extruded semiconducting insulation shield meets or exceeds electrical and physical requirements of UL 1072.

Conductor Shield
Extruded semiconducting conductor shield meets or exceeds electrical and physical requirements of UL 1072.

Insulation
EPR meets or exceeds electrical and physical requirements of UL 1072.

Metallic Shield
Bare copper tape shield helically wrapped to provide 100% coverage.

Binder Tape
Synthetic material assembles the core in an essentially round configuration.

Jacket
Mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket. Black jacket is standard.

Available with a Polyvinyl Chloride (PVC) jacket.
See pages 1 - 2.

APPLICATION

AmerCable medium voltage power cables are recommended for use as feeder circuits, in electric utility generating stations, for distribution circuits, and for feeders or branch circuits in industrial and commercial installations. Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

FEATURES

- UL listed as Type MV-105
- Flame retardant: UL 1685, IEEE 1202 and CSA FT4 vertical tray flame tests
- Excellent mechanical and physical properties
- Sunlight resistant jacket
- Suitable for direct burial, use in cable tray and embedment in concrete

BEND RADIUS

- Fixed position: 7 x cable overall diameter
- During pulling: 12 x cable overall diameter

25kV • 100% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
175CPE	1	260	1.170	856	225	–	230	0.1289	0.1315	0.1644	0.053	0.163
176CPE	1/0	260	1.205	951	255	218	260	0.1022	0.1042	0.1304	0.052	0.135
177CPE	2/0	260	1.245	1069	295	248	295	0.0811	0.0827	0.1035	0.049	0.112
178CPE	4/0	260	1.345	1388	390	334	385	0.0510	0.0520	0.0653	0.046	0.080
179CPE	250	260	1.385	1539	430	368	410	0.0432	0.0440	0.0553	0.044	0.071
188CPE	350	260	1.545	2013	525	454	505	0.0308	0.0314	0.0396	0.043	0.057
190CPE	500	260	1.665	2580	650	566	665	0.0361	0.0220	0.0280	0.040	0.047
191CPE	750	260	1.860	3546	820	728	740	0.0144	0.0147	0.0191	0.038	0.038

See Page 9 for Ratings & Approvals

25kV 133% INSULATION • 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
180CPE	1/0	345	1.350	1178	255	218	260	0.1022	0.1042	0.1304	0.054	0.144
181CPE	2/0	345	1.385	1296	295	248	295	0.0811	0.0827	0.1035	0.052	0.115
183CPE	4/0	345	1.485	1632	390	334	385	0.0510	0.0520	0.0653	0.049	0.072
184CPE	250	345	1.530	1797	430	368	410	0.0432	0.0440	0.0553	0.047	0.061
185CPE	350	345	1.625	2198	525	454	505	0.0308	0.0314	0.0396	0.044	0.043
186CPE	500	345	1.805	2890	650	566	605	0.0361	0.0220	0.0280	0.043	0.042
187CPE	750	345	2.055	3945	820	728	740	0.0144	0.0147	0.0191	0.039	0.020

25kV 100% INSULATION LEVEL • 3/C • CPE JACKET

Part Number (37-505)	Size	Ground Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
						In Air	Cable Tray	Direct Burial					
369CPE	1	4	260	2.355	2870	210	176	185	0.1289	0.1315	0.1644	0.049	0.161
370CPE	1/0	4	260	2.440	3189	240	204	210	0.1022	0.1042	0.1304	0.048	0.133
371CPE	2/0	4	260	2.530	3561	275	233	235	0.0811	0.0827	0.1035	0.045	0.110
373CPE	4/0	2	260	2.805	4807	360	304	305	0.0510	0.0520	0.0653	0.042	0.077
374CPE	250	2	260	2.900	5312	400	333	335	0.0432	0.0440	0.0553	0.041	0.069
376CPE	350	2	260	3.105	6550	490	409	400	0.0308	0.0314	0.0396	0.039	0.055
377CPE	500	1	260	3.385	8439	600	499	485	0.0361	0.0220	0.0280	0.037	0.044
378CPE	750	1/0	260	3.775	11517	745	603	585	0.0144	0.0147	0.0191	0.035	0.036

35kV 100% INSULATION 1/C • CPE JACKET

Part Number (37-505)	Size	Insulation Thickness (Mils)	Outside Diameter	Weight (lbs/Kft)	Ampacities			DC Res. 20C Ω/kft	DC Res. 25C Ω/kft	AC Resist. 90C, 60 Hz Ω/kft	Inductive Reactance 90C, 60 Hz Ω/kft	Voltage Drop Volts/ Amps/kft
					In Air	Cable Tray	Direct Burial					
180CPE	1/0	345	1.350	1178	255	218	260	0.1022	0.1042	0.1304	0.054	0.144
181CPE	2/0	345	1.385	1296	295	248	295	0.0811	0.0827	0.1035	0.052	0.115
183CPE	4/0	345	1.485	1632	390	334	385	0.0510	0.0520	0.0653	0.049	0.072
184CPE	250	345	1.530	1797	430	368	410	0.0432	0.0440	0.0553	0.047	0.061
185CPE	350	345	1.625	2198	525	454	505	0.0308	0.0314	0.0396	0.044	0.043
186CPE	500	345	1.805	2890	650	566	605	0.0361	0.0220	0.0280	0.043	0.042
187CPE	750	345	2.055	3945	820	728	740	0.0144	0.0147	0.0191	0.039	0.020

Single Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor cable triplexed in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.
2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(69), for insulated single conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with a derating factor of 0.75.
3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(85) for triplexed insulated single conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100% load factor, earth thermal resistivity of 90C cm/W..

Three Conductor Notes:

1) Ampacities in air are based on NEC 2017 Table 310.60(C)(71), for insulated three conductor copper cable isolated in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C.
2) Ampacities in cable tray are based on NEC 2017 Table 310.60(C)(75), for insulated three conductor copper cable in isolated conduit in air, maximum conductor temperature of 105°C, ambient air temperature of 40°C, with d derating factor of 0.95.
3) Ampacities for direct burial are based on NEC 2017 Table 310.60(C)(83), for insulated three conductor copper cable, directly buried, maximum conductor temperature of 105°C, ambient earth temperature of 20°C, 100 percent load factor, earth thermal resistivity of 90°C cm / W.

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