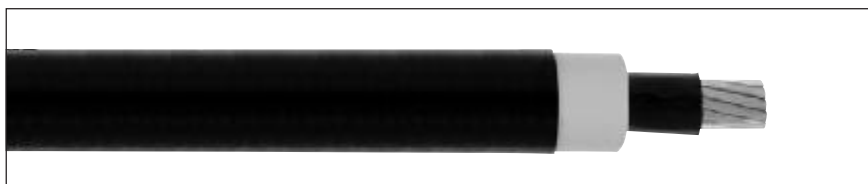


# DuraSheath®

EPR/CSPE, Medium-Voltage Power, Non-Shielded  
2400 V, UL Type MV-90



## Product Construction

### Conductor:

- 8 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black jacket material

### Jacket:

- Low-lead Chlorosulfonated Polyethylene (CSPE)/Elastomer blend

### Print:

- GENERAL CABLE® (MI) SIZE (AWG or KCMIL) COMPACT CU DURASHEATH® LL 2400 V NONSHIELDED EP TYPE MV-90 WET OR DRY SUN RES FOR CT USE OIL RES II (UL) MONTH/ YEAR OF MFG SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE"

### Options:

- Multi conductor constructions
- Other constructions available upon request

### Applications:

- Proven record of reliable performance through extensive use in these applications: pulp and paper mills, petrochemical plants, sewage treatment facilities, water treatment plants, steel mills, textile mills, utility power generating stations, scrubbers and other environmental protection systems, railroad and mining facilities

### Applications: (cont'd.):

- For use in industrial and utility applications where ease of installation is a major concern because of limited space and exposure to personnel is minimal
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations

## Features:

- Rated at 90°C
- Excellent heat and moisture resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and sunlight-resistant
- Simplification of splicing and terminating by elimination of need to handle cable shield
- Extra-tough, mechanically rugged composite insulation and jacket construction
- Meets cold bend test at -35°C

## Compliances:

- National Electric Code (NEC)
- ICSA S-96-659/NEMA WC71
- UL 1072
- FAA L824 specification for cable for Underground Airport Lighting Circuits
- UL listed as Type MV-90 for use in accordance with NEC, UL File # E90501
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC and also meet IEEE 383 (70,000 BTU/hr)
- Listed "oil-resistant II"
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA acceptable

## Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER		NOMINAL EXTRUDED STRAND SHIELD DIAMETER		NOMINAL INSULATION THICKNESS		NOMINAL INSULATION DIAMETER		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km
2400 V, UL TYPE MV-90															
14901.410800*	8	0.14	3.56	0.15	3.81	0.125	3.18	0.41	10.41	0.58	14.73	51	76	196	292
14901.410600	6	0.17	4.32	0.19	4.83	0.125	3.18	0.44	11.18	0.62	15.75	81	121	241	359
14901.410400	4	0.22	5.59	0.23	5.84	0.125	3.18	0.49	12.45	0.66	16.76	129	192	308	458
14901.410200	2	0.27	6.86	0.29	7.37	0.125	3.18	0.55	13.97	0.72	18.29	205	305	408	607
14901.410100*	1	0.31	7.87	0.33	8.38	0.125	3.18	0.58	14.73	0.76	19.30	259	385	476	708
14901.415100	1/0	0.34	8.64	0.36	9.14	0.125	3.18	0.62	15.75	0.79	20.07	326	485	562	836
14901.415200	2/0	0.38	9.65	0.41	10.41	0.125	3.18	0.66	16.76	0.84	21.34	411	612	666	991
14901.415300*	3/0	0.43	10.92	0.45	11.43	0.125	3.18	0.71	18.03	0.92	23.37	518	771	823	1225
14901.415400	4/0	0.48	12.19	0.50	12.70	0.125	3.18	0.76	19.30	0.97	24.64	653	972	983	1463
14901.416000	250	0.53	13.46	0.55	13.97	0.140	3.56	0.84	21.34	1.08	27.43	772	1149	1183	1761
14901.416200	350	0.62	15.75	0.64	16.26	0.140	3.56	0.93	23.62	1.17	29.72	1080	1607	1545	2299
14901.416500	500	0.74	18.80	0.77	19.56	0.140	3.56	1.06	26.92	1.30	33.02	1544	2298	2077	3091
14901.417000	750	0.91	23.11	0.94	23.88	0.155	3.94	1.26	32.00	1.54	39.12	2316	3447	3040	4524
14901.417500*	1000	1.06	26.92	1.09	27.69	0.155	3.94	1.42	36.07	1.70	43.18	3086	4593	3913	5823

Dimensions and weights are nominal; subject to industry tolerances.

\*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Phone: 888-593-3355  
www.generalcable.com

# UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded  
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils

## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

### Composite Insulation Shield and Jacket:

- Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations
- Suitable for use in wet or dry locations when installed in accordance with NEC



## Applications (cont'd.):

- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Reduced conductor size and shield system provides the smallest premium medium-voltage shielded power cable with full insulation
- Smaller outside dimensions reduce the size of duct needed or increase the ampacity per duct
- All features contribute to faster and easier installation
- Superior cold bend and cold impact performance
- Stable and constant shield short circuit performance
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low dielectric loss
- Low moisture absorption
- Electrical stability under stress
- Chemical-resistant
- Sunlight-resistant
- Meets cold bend test at -55°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		DRAIN WIRE SIZE (AWG)	NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
		INCHES	MIN.	MAX.		DIAMETER		WEIGHT						
						INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS														
19101.650200	2	0.27	0.510	0.590	20	0.71	18.03	404	601	225	335	165	165	2.5
19101.655100	1/0	0.34	0.580	0.655	20	0.78	19.81	555	825	346	515	215	215	2.5
19101.665200	2/0	0.38	0.620	0.695	19	0.83	21.08	666	990	436	649	255	245	3
19101.665300*	3/0	0.43	0.665	0.745	19	0.88	22.35	791	1177	562	808	290	275	3
19101.665400	4/0	0.48	0.720	0.795	19	0.93	23.62	951	1415	678	1010	330	315	3
19101.676000	250	0.53	0.770	0.850	18	1.01	25.65	1112	1655	804	1196	365	345	3.5
19101.676200	350	0.62	0.870	0.945	18	1.11	28.19	1463	2176	1113	1656	440	415	3.5
19101.686500	500	0.74	0.990	1.065	17	1.24	31.50	2003	2980	1585	2358	535	500	4
19101.687000	750	0.91	1.170	1.250	17	1.44	36.57	2875	4278	2357	3507	655	610	5
19101.667500*	1000	1.06	1.320	1.400	16	1.61	40.89	3746	5574	3138	4669	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all UniShield® constructions.



Phone: 888-593-3355  
www.generalcable.com



# Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 MILS



## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3 (INCHES)
			INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT			CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
		INCHES						mm	INCHES	mm	LBS/1000 FT	kg/km			
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS															
17001.120600	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	295	439	126	188	93	97	2
17001.120400	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	365	543	178	265	120	125	2.5
17001.120200	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	471	701	259	385	165	165	2.5
17001.120100*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	539	802	315	468	190	185	2.5
17001.125100	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	623	927	386	575	215	215	3
17001.125200	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	728	1083	474	706	255	245	3
17001.125300*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	886	1318	585	871	290	275	3
17001.135400	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1053	1567	725	1080	330	315	3
17001.136000	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1199	1784	849	1263	365	345	3.5
17001.136200	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1559	2320	1165	1735	440	415	3.5
17001.136500	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2088	3107	1639	2439	535	500	4
17001.137000	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2962	4407	2427	3611	655	610	5
17001.637500	1000	1.06	1.330	1.400	0.080	2.03	1.60	42.42	3815	5677	3210	4777	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".  
b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355  
www.generalcable.com

# Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils



## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3 (INCHES)
							DIAMETER		WEIGHT						
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS															
17001.120605	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	295	439	126	188	93	97	2
17001.120405	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	365	543	178	265	120	125	2.5
17001.120205	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	471	701	259	385	165	165	2.5
17001.120105*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	539	802	315	468	190	185	2.5
17001.125105	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	623	927	386	575	215	215	3
17001.125205	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	728	1083	474	706	255	245	3
17001.125305*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	886	1318	585	871	290	275	3
17001.135405	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1053	1567	725	1080	330	315	3
17001.136005	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1199	1784	849	1263	365	345	3.5
17001.136205	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1559	2320	1165	1735	440	415	3.5
17001.136505	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2088	3107	1639	2439	535	500	4
17001.137005	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2962	4407	2427	3611	655	610	5
17001.637505	1000	1.06	1.330	1.400	0.080	2.03	1.60	42.42	3815	5677	3210	4777	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355  
www.generalcable.com





# Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 MILS



## Features (cont'd.):

- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION

## Print (cont'd.):

THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV%  
INSULATION LEVEL SUN RES FOR CT USE (UL)  
SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER  INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT								
							INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	IN AIR (1)	UNDERGROUND DUCT (2)	
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS																	
17001.120608*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	239	356	25	37	45	67	72	75	2
17001.120408*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	275	409	39	58	49	73	94	98	2.5
17001.120208*	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	328	488	62	92	54	81	130	130	2.5
17001.120108*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	359	534	78	116	57	84	150	145	2.5
17001.125108*	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	396	590	99	147	60	90	170	165	3
17001.125208*	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	442	658	125	186	63	94	200	190	3
17001.125308*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	526	783	158	235	67	100	225	215	3
17001.135408*	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	599	891	199	296	72	107	260	245	3
17001.136008*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	661	984	234	348	77	115	290	270	3.5
17001.136208	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	807	1201	329	490	84	125	350	330	3.5
17001.136508	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	1012	1506	468	696	95	141	430	400	4
17001.137008	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	1349	2008	703	1046	111	165	540	490	5
17001.137508	1000	1.06	1.330	1.400	0.080	2.03	1.60	42.42	1664	2476	937	1394	122	182	640	565	5

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded  
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils

## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS INCHES	mm	NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
			MIN.	MAX.			DIAMETER	WEIGHT			LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	

## 5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

17101.120600*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	293	436	126	188	93	97	2
17101.120400*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	363	540	178	265	120	125	2.5
17101.120200*	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	469	698	259	385	165	165	2.5
17101.120100*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	537	799	315	468	190	185	2.5
17101.125100*	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	621	924	386	575	215	215	3
17101.125200*	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	726	1080	474	706	255	245	3
17101.125300*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	883	1314	585	871	290	275	3
17101.135400*	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1049	1561	725	1080	330	315	3
17101.136000*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1195	1778	849	1263	365	345	3.5
17101.136200*	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1555	2314	1165	1735	440	415	3.5
17101.136500*	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2083	3100	1639	2439	535	500	4
17101.137000*	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2981	4436	2427	3611	655	610	5
17101.137500*	1000	1.06	1.330	1.400	0.080	2.03	1.60	42.42	3808	5666	3210	4777	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# GenFree® Uniblend®

EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded  
5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 MILS



## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Overall Jacket:

- Lead-free, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION

## Print (cont'd.):

THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV%  
INSULATION LEVEL SUN RES FOR CT USE  
(UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance

## Features (cont'd.):

- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)
			MIN.	MAX.	INCHES	mm	DIAMETER	WEIGHT			LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
							INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km			
<b>5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS</b>															
17201.120600*	6	0.17	0.415	0.490	0.060	1.52	0.65	16.51	295	439	126	188	93	97	2
17201.120400*	4	0.22	0.455	0.535	0.060	1.52	0.70	17.15	365	543	178	265	120	125	2.5
17201.120200	2	0.27	0.510	0.590	0.060	1.52	0.76	19.05	471	701	259	385	165	165	2.5
17201.120100*	1	0.31	0.545	0.620	0.060	1.52	0.79	20.07	539	802	315	468	190	185	2.5
17201.125100	1/0	0.34	0.580	0.655	0.060	1.52	0.82	21.08	623	927	386	575	215	215	3
17201.125200	2/0	0.38	0.620	0.695	0.060	1.52	0.86	22.10	728	1083	474	706	255	245	3
17201.125300*	3/0	0.43	0.665	0.745	0.080	2.03	0.94	24.38	886	1318	585	871	290	275	3
17201.135400	4/0	0.48	0.720	0.795	0.080	2.03	1.00	25.65	1053	1567	725	1080	330	315	3
17201.136000*	250	0.53	0.770	0.850	0.080	2.03	1.05	27.18	1199	1784	849	1263	365	345	3.5
17201.136200	350	0.62	0.870	0.945	0.080	2.03	1.14	29.72	1559	2320	1165	1735	440	415	3.5
17201.136500	500	0.74	0.990	1.065	0.080	2.03	1.27	33.53	2088	3107	1639	2439	535	500	4
17201.137000	750	0.91	1.170	1.250	0.080	2.03	1.45	38.35	2962	4407	2427	3611	655	610	5
17201.637500*	1000	1.06	1.330	1.400	0.080	2.03	1.60	42.42	3815	5677	3210	4777	755	690	5

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355  
www.generalcable.com

# Copper Wire Shield

TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power  
5 kV, UL Type MV-105, 100% Ins. Level, 90 MILS

## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper Class B compressed strand in accordance with ASTM B3 and B8

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

### Insulation:

- Tree-Retardant Cross-Linked Polyethylene (TRXLPE)

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

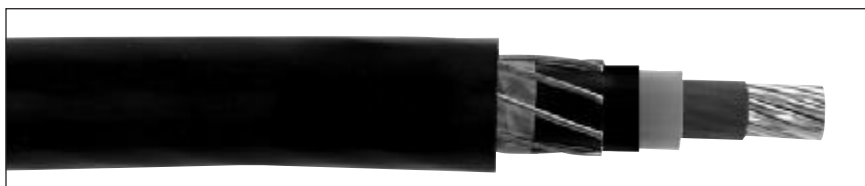
- A concentric serve of 24 AWG annealed solid bare copper wires over which shall be applied a lapped non-metallic tape

### Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) CU (INSULATION THICKNESS) TRXLPE TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES (UL) SEQUENTIAL FOOTAGE MARK



### Options:

- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC and in accordance with UL 1685 (70,000 BTU/hr)
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

### Applications:

- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations where cost effectiveness is a factor
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

### Features:

- Rated at 105°C
- Triple tandem extrusion of the strand shield, insulation and insulation shield provides a virtually perfect cable core
- Excellent resistance to electro-chemical treeing, heat, moisture and a wide variety of industrial chemicals

### Features (cont'd.):

- PVC jacket provides mechanical protection of the shielding system during installation, as well as protection from many industrial chemicals
- Sunlight-resistant
- Meets cold bend test at -35°C

### Compliances:

- National Electrical Code (NEC)
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL 1072
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3 (INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT						
							INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
5 kV, UL TYPE MV-105, 100% INS. LEVELS, 90 MILS															
17241.010600*	6	0.18	0.370	0.445	0.060	1.52	0.67	17.02	250	372	93	138	84	92	2.5
17241.010400*	4	0.23	0.420	0.495	0.060	1.52	0.72	18.29	317	472	141	210	110	120	2.5
17241.010200*	2	0.29	0.475	0.555	0.060	1.52	0.77	19.55	420	625	217	323	145	155	2.5
17241.015100*	1/0	0.37	0.555	0.630	0.060	1.52	0.85	21.59	580	863	338	503	200	210	3
17241.015200*	2/0	0.41	0.600	0.675	0.060	1.52	0.89	22.61	670	997	427	635	225	235	3
17241.015400*	4/0	0.52	0.705	0.780	0.080	2.03	1.04	26.42	1000	1488	669	996	305	310	3.5
17241.016000*	250	0.56	0.760	0.835	0.080	2.03	1.10	28.19	1155	1719	788	1173	355	345	3.5
17241.016200*	350	0.67	0.865	0.940	0.080	2.03	1.20	30.48	1505	2240	1097	1632	430	415	4
17241.016500*	500	0.80	0.990	1.070	0.080	2.03	1.36	34.54	2060	3066	1563	2325	530	505	5
17241.017000*	750	0.97	1.180	1.255	0.080	2.03	1.53	38.86	2868	4268	2340	3482	665	630	5
17241.017500*	1000	1.12	1.325	1.405	0.080	2.03	1.66	42.16	3684	5482	3113	4632	770	720	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: The NESC Lighting bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils, Three Conductor



## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

### Overall Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

## Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

## Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY	
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT					
								INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR															
15493.400600	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95
15493.400400	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125
15493.400200	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160
15493.405100	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210
15493.405200	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235
15493.405400	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305
15493.406000*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335
15493.406200	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400
15493.406500	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485
15493.407000*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585
15493.407500*	1000	1.06	1.330	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket

## Medium-Voltage Power, Shielded, 5 kV and 8 kV, UL Type MV-105

### 133%/100% Ins. Levels, 115 Mils, Three Conductor



#### Product Construction:

##### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

##### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

##### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

##### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

##### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

##### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

##### Overall Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

##### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



#### Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

#### Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

#### Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

#### Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

#### Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

#### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT						
								INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR																
15493.400605	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95	
15493.400405	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125	
15493.400205	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160	
15493.405105	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210	
15493.405205	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235	
15493.405405	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305	
15493.406005*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335	
15493.406205	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400	
15493.406505	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485	
15493.407005*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585	
15493.407505*	1000	1.06	1.330	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660	

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield with Overall CPE Jacket, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils, Three Conductor



## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

## Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

### Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

## Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

## Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY	
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT					
								INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR															
15593.400600*	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95
15593.400400*	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125
15593.400200*	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160
15593.405100*	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210
15593.405200*	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235
15593.405400*	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305
15593.406000*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335
15593.406200*	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400
15593.406500*	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485
15593.407000*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585
15593.407500*	1000	1.06	1.330	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) Sizes smaller than 4/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# GenFree® Uniblend®

EPR/Copper Tape Shield with Overall LSZH Jacket, Medium-Voltage Power, Shielded 5 kV and 8 kV, UL Type MV-105, 133%/100% Ins. Levels, 115 Mils, Three Conductor

## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

### Overall Jacket:

- Lead-free, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



### Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

### Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

### Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

### Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

### Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY	
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT					
								INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
5 kV AND 8 kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR															
15693.400600*	6	0.17	0.415	0.490	6	0.080	2.03	1.29	32.77	939	1397	460	685	92	95
15693.400400*	4	0.22	0.455	0.535	6	0.080	2.03	1.39	35.31	1158	1723	616	917	120	125
15693.400200*	2	0.27	0.510	0.590	6	0.080	2.03	1.51	38.35	1511	2249	860	1279	165	160
15693.405100*	1/0	0.34	0.580	0.655	4	0.080	2.03	1.67	42.42	2030	3021	1290	1919	215	210
15693.405200*	2/0	0.38	0.620	0.695	4	0.080	2.03	1.82	46.23	2449	3645	1556	2315	245	235
15693.405400*	4/0	0.48	0.720	0.795	3	0.110	2.79	2.07	52.58	3438	5116	2344	3488	320	305
15693.406000*	250	0.53	0.770	0.850	2	0.110	2.79	2.15	54.61	3968	5904	2759	4105	350	335
15693.406200*	350	0.62	0.870	0.945	2	0.110	2.79	2.36	59.94	5009	7454	3713	5525	430	400
15693.406500*	500	0.74	0.990	1.065	1	0.110	2.79	2.64	67.06	6793	10065	5191	7724	525	485
15693.407000*	750	0.91	1.170	1.250	1/0	0.140	3.56	3.14	79.76	9833	14633	7629	11352	635	585
15693.407500*	1000	1.06	1.330	1.400	2/0	0.140	3.56	3.48	88.39	12601	18753	10070	14985	725	660

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

### Composite Insulation Shield

#### and Jacket:

- Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/ YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations
- Suitable for use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Reduced conductor size and shield system provides the smallest premium medium-voltage shielded power cable with full insulation
- Smaller outside dimensions reduce the size of duct needed or increase the ampacity per duct
- All features contribute to faster and easier installation
- Superior cold bend and cold impact performance
- Stable and constant shield short circuit performance
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling

## Features (cont'd.):

- High dielectric strength
- Low dielectric loss
- Low moisture absorption
- Electrical stability under stress
- Chemical-resistant
- Sunlight-resistant
- Meets cold bend test at -55°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		DRAIN WIRE SIZE (AWG)	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4 (INCHES)
						DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
		INCHES	MIN.	MAX.		INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS															
19161.660200	2	0.27	0.710	0.800	19	0.93	23.88	555	835	230	342	165	165	-	3
19161.675100	1/0	0.34	0.780	0.865	18	1.01	25.91	734	1102	358	533	215	215	220	3.5
19161.675200	2/0	0.38	0.820	0.905	18	1.05	27.18	844	1259	443	659	255	245	250	3.5
19161.665300*	3/0	0.43	0.865	0.955	18	1.10	28.45	978	1458	550	818	290	275	290	3.5
19161.675400	4/0	0.48	0.920	1.005	18	1.16	29.72	1151	1716	685	1019	330	315	335	4
19161.686000	250	0.53	0.970	1.060	17	1.23	31.50	1325	1984	813	1210	365	345	370	4
19161.686200	350	0.62	1.070	1.155	17	1.33	33.78	1691	2530	1122	1669	440	415	460	5
19161.686500	500	0.74	1.190	1.275	17	1.46	37.08	2238	3344	1585	2358	535	500	575	5
19161.697000	750	0.91	1.370	1.460	16	1.67	42.42	3174	4739	2368	3523	655	610	745	6
19161.307500*	1000	1.06	1.520	1.610	16	1.86	47.24	4122	6133	3138	4669	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

\*100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all UniShield® constructions.



Phone: 888-593-3355  
www.generalcable.com

# Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils

## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- Other jacket options available upon request
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS	NOMINAL CABLE						COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4 (INCHES)
						DIAMETER		WEIGHT		CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)			TRAY (3)			
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT			kg/km	LBS/1000 FT		kg/km		
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																	
17031.130200	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	658	979	276	411	165	165	-	3	
17031.130100*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	733	1090	332	494	190	185	-	3.5	
17031.135100	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	825	1228	403	600	215	215	220	3.5	
17031.135200	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	938	1396	492	732	255	245	250	3.5	
17031.135300*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1078	1604	603	897	290	275	290	3.5	
17031.135400	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1261	1876	743	1105	330	315	335	3.5	
17031.136000	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1407	2093	866	1289	365	345	370	4	
17031.136200	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1783	2653	1184	1761	440	415	460	5	
17031.136500	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2331	3468	1657	2466	535	500	575	5	
17031.137000	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3234	4812	2445	3638	655	610	745	6	
17031.137500	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4219	6278	3228	4803	755	690	890	6	

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

†100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355  
www.generalcable.com



# Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION

## Print (cont'd.):

THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance

## Features (cont'd.):

- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- Optional Flame Tests:
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
15 kV <sup>¥</sup> , UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																
17031.130205	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	658	979	276	411	165	165	-	3
17031.130105*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	733	1090	332	494	190	185	-	3.5
17031.135105	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	825	1228	403	600	215	215	220	3.5
17031.135205	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	938	1396	492	732	255	245	250	3.5
17031.135305*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1078	1604	603	897	290	275	290	3.5
17031.135405	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1261	1876	743	1105	330	315	335	3.5
17031.136005	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1407	2093	866	1289	365	345	370	4
17031.136205	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1783	2653	1184	1761	440	415	460	5
17031.136505	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2331	3468	1657	2466	535	500	575	5
17031.137005	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3234	4812	2445	3638	655	610	745	6
17031.137505	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4219	6278	3228	4803	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

\*100% insulation level is available upon request.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



Phone: 888-593-3355  
www.generalcable.com

# Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- 100% insulation level



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT									
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
15 kV <sup>1</sup> , UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																		
17031.130208*	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	515	767	62	92	71	106	130	130	—	3
17031.130108*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	553	822	78	116	74	110	150	145	—	3.5
17031.135108*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	598	890	99	147	77	115	170	165	170	3.5
17031.135208*	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	652	970	125	186	81	121	200	190	195	3.5
17031.135308*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	718	1068	158	235	85	126	225	215	225	3.5
17031.135408*	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	807	1201	199	296	90	134	260	245	265	3.5
17031.136008*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	869	1293	234	348	94	140	290	270	290	4
17031.136208	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1031	1534	329	490	103	153	350	330	360	5
17031.136508	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	1255	1868	468	696	113	168	430	400	450	5
17031.137008	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	1621	2412	703	1046	129	192	540	490	585	6
17031.137508	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	2068	3078	937	1394	140	208	640	565	705	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(70). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

100% insulation level is available upon request.

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU

## Print (cont'd.):

UNIBLEND® CPE JKT (INSULATION THICKNESS)  
EPR TYPE MV-105 (VOLTAGE) KV% INSULATION  
LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL  
FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include  
"FOR CT USE".

## Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																
17131.130200*	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	655	975	276	411	165	165	-	3
17131.130100*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	730	1086	332	494	190	185	-	3.5
17131.135100*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	820	1220	403	600	215	215	220	3.5
17131.135200*	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	933	1388	492	732	255	245	250	3.5
17131.135300*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1072	1595	603	897	290	275	290	3.5
17131.135400*	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1248	1857	743	1105	330	315	335	3.5
17131.136000*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1402	2086	866	1289	365	345	370	4
17131.136200*	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1778	2646	1184	1761	440	415	460	5
17131.136500*	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2325	3460	1657	2466	535	500	575	5
17131.137000*	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3250	4836	2445	3638	655	610	745	6
17131.637500*	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4209	6263	3228	4803	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

†100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# GenFree® Uniblend®

EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils

## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Overall Jacket:

- Lead-free, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 100% insulation level



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- **Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4 INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
							INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																
17231.130200	2	0.27	0.710	0.800	0.080	2.03	0.99	25.14	658	979	276	411	165	165	-	3
17231.130100*	1	0.31	0.745	0.830	0.080	2.03	1.02	25.91	733	1090	332	494	190	185	-	3.5
17231.135100*	1/0	0.34	0.780	0.865	0.080	2.03	1.06	26.92	825	1228	403	600	215	215	220	3.5
17231.135200	2/0	0.38	0.820	0.905	0.080	2.03	1.10	27.94	938	1396	492	732	255	245	250	3.5
17231.135300*	3/0	0.43	0.865	0.955	0.080	2.03	1.14	28.95	1078	1604	603	897	290	275	290	3.5
17231.135400	4/0	0.48	0.920	1.005	0.080	2.03	1.21	30.73	1261	1876	743	1105	330	315	335	3.5
17231.136000*	250	0.53	0.970	1.060	0.080	2.03	1.25	31.75	1407	2093	866	1289	365	345	370	4
17231.136200	350	0.62	1.070	1.155	0.080	2.03	1.35	34.29	1783	2653	1184	1761	440	415	460	5
17231.136500	500	0.74	1.190	1.275	0.080	2.03	1.47	37.34	2331	3468	1657	2466	535	500	575	5
17231.137000	750	0.91	1.370	1.460	0.080	2.03	1.65	41.91	3234	4812	2445	3638	655	610	745	6
17231.137500*	1000	1.06	1.520	1.610	0.110	2.79	1.86	47.24	4219	6278	3228	4803	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

¥100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

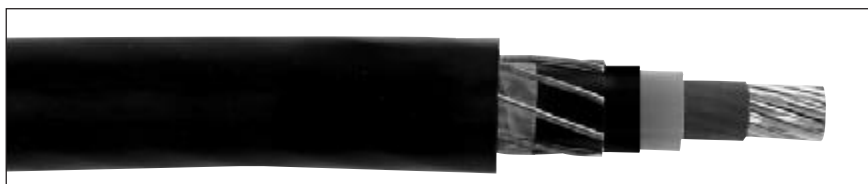


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# Copper Wire Shield

TRXLPE/Copper Wire Shield/PVC, Medium-Voltage Power  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils



## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper, Class B compressed strand in accordance with ASTM B3 and B8

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Tree-Retardant Cross-Linked Polyethylene (TRXLPE)

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- A concentric serve of 24 AWG annealed solid bare copper wires over which shall be applied a lapped non-metallic tape

### Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) CU (INSULATION THICKNESS) TRXLPE TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES (UL) SEQUENTIAL FOOTAGE MARK

## Options:

- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC and in accordance with UL 1685 (70,000 BTU/hr)
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610

## Applications:

- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations where cost effectiveness is a factor
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Triple tandem extrusion of the strand shield, insulation and insulation shield provides a virtually perfect cable core
- Excellent resistance to electro-chemical treeing, heat, moisture and a wide variety of industrial chemicals
- PVC jacket provides mechanical protection of the shielding system during installation as well as protection from many industrial chemicals
- Sunlight-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL 1072
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4 (INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
							INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS																
17245.010200*	2	0.29	0.725	0.815	0.080	2.03	1.05	26.67	600	893	221	329	165	165	-	3.5
17245.010100*	1	0.33	0.765	0.855	0.080	2.03	1.09	27.68	671	998	274	408	190	185	-	3.5
17245.015100*	1/0	0.37	0.805	0.895	0.080	2.03	1.13	28.27	761	1132	342	509	215	215	220	3.5
17245.015200*	2/0	0.41	0.850	0.935	0.080	2.03	1.18	29.97	871	1296	427	635	255	245	250	4
17245.015400*	4/0	0.52	0.955	1.045	0.080	2.03	1.29	32.76	1179	1754	672	1000	330	315	335	4
17245.016000*	250	0.56	1.010	1.100	0.080	2.03	1.34	34.03	1327	1974	791	1177	365	345	370	5
17245.016200*	350	0.67	1.115	1.200	0.080	2.03	1.45	36.83	1700	2529	1105	1644	440	415	460	5
17245.016500*	500	0.80	1.240	1.330	0.080	2.03	1.57	39.87	2236	3327	1568	2333	535	500	575	5
17245.017000*	750	0.97	1.430	1.520	0.110	2.79	1.82	46.23	3225	4798	2344	3488	655	610	745	6
17245.017500*	1000	1.12	1.575	1.670	0.110	2.79	1.97	50.04	4090	6086	3114	4634	755	690	890	6

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392.80(B)(2) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310.60(C)(69). For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values shown above.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

\*100% insulation level is available upon request.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor

## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

### Overall Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



### Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

### Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

### Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption

### Features (cont'd.):

- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

### Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
								DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)
		INCHES	MIN.	MAX.		INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km			
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																
15493.440200	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185
15493.445100	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240
15493.445200	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275
15493.445400	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360
15493.446000*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400
15493.446200	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490
15493.446500	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600
15493.447000*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745
15493.447500*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13983	20810	10124	15064	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 in an uncovered tray in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

\*100% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket

## Medium-Voltage Power, Shielded, 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor



### Product Construction:

#### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

#### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

#### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

#### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

#### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

#### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

#### Overall Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/ YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

### Options:

- STRANDFILL® – blocked conductor. Tested in accordance with IEEE T-31-610
- 3 bare copper ground wires
- Covered ground wires

### Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

### Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

### Compliances:

- National Electrical Code (NEC)
- UL 1072
- IEEE S-93-639/NEMA WC74
- IEEE S-97-682
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- IEEE T-29-520 (210,000 BTU/hr)

### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
			INCHES	MIN.		MAX.	INCHES	mm	DIAMETER		WEIGHT			CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)
		INCHES			mm				LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																
15493.440205	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185
15493.445105	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240
15493.445205	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275
15493.445405	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360
15493.446005*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400
15493.446205	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490
15493.446505	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600
15493.447005*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745
15493.447505*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13983	20810	10124	15064	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 cables in single layer in an uncovered tray with maintained spacing of not less than one cable diameter between cables, in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

\*100% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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**Uniblend®**EPR/Copper Tape Shield with Overall CPE Jacket, Medium-Voltage Power, Shielded  
15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor**Product Construction:****Conductor:**

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

**Extruded Strand Shield (ESS):**

- Extruded thermoset semi-conducting stress-control layer over conductor

**Insulation:**

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

**Extruded Insulation Shield (EIS):**

- Thermoset semi-conducting polymeric layer free stripping from insulation

**Metallic Shield:**

- 5 mil annealed copper tape with an overlap of 25%

**Grounding Conductor:**

- 1 bare grounding conductor may be in contact with metallic shielding tape

**Overall Jacket:**

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

**Print:**

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

**Options:**

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles
- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

**Applications:**

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

**Features:**

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption

**Features (cont'd.):**

- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

**Compliances:**

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

**Optional Flame Tests:**

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

**Packaging:**

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)
								INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km			
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																
15593.440200*	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185
15593.445100*	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240
15593.445200*	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275
15593.445400*	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360
15593.446000*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400
15593.446200*	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490
15593.446500*	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600
15593.447000*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745
15593.447500*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13938	20810	10124	15064	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 in an uncovered tray in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

¥100% insulation level is available upon request

Note: a) Sizes smaller than 4/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.

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# GenFree® Uniblend®

EPR/Copper Tape Shield with Overall LSZH Jacket, Medium-Voltage Power, Shielded 15 kV, UL Type MV-105, 133% Ins. Level, 220 Mils, Three Conductor



## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- OSHA Acceptable

## Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

## Product Construction:

### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

### Overall Jacket:

- Lead-free, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

## Options:

- STRANDFILL® – blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires

## Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- In wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			
		INCHES	MIN.	MAX.		INCHES	mm	DIAMETER		WEIGHT							
								INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)	
15 kV*, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR																	
15793.440200*	2	0.27	0.710	0.800	6	0.110	2.79	2.04	51.82	2226	3313	913	1358	165	160	185	
15793.445100*	1/0	0.34	0.780	0.865	4	0.110	2.79	2.20	55.88	2811	4183	1343	1998	215	210	240	
15793.445200*	2/0	0.38	0.820	0.905	4	0.110	2.79	2.30	58.42	3163	4707	1609	2394	245	235	275	
15793.445400*	4/0	0.48	0.920	1.005	3	0.110	2.79	2.52	64.01	4203	6255	2398	3567	320	305	360	
15793.446000*	250	0.53	0.970	1.060	2	0.110	2.79	2.66	67.56	4775	7106	2812	4184	350	335	400	
15793.446200*	350	0.62	1.070	1.155	2	0.110	2.79	2.94	74.68	6182	9200	3766	5604	430	400	490	
15793.446500*	500	0.74	1.190	1.275	1	0.140	3.56	3.21	81.53	7686	11438	5244	7803	525	485	600	
15793.447000*	750	0.91	1.370	1.460	1/0	0.140	3.56	3.61	91.69	10978	16337	7682	11431	635	585	745	
15793.447500*	1000	1.06	1.520	1.610	2/0	0.140	3.56	3.99	101.35	13938	20810	10124	15064	725	660	860	

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) The ampacities are based on three conductor Type MV-105 in an uncovered tray in accordance with Section 392.80(B)(1) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are per Table 310.60(C)(71). For cable tray with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values in NEC Table 310.60(C)(75).

<sup>1</sup>100% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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www.generalcable.com

# UniShield®

EPR/Copper Wire Shield/CPE, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils

## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

### Composite Insulation Shield and Jacket:

- Six corrugated copper drain wires embedded in composite layers of semi-conducting thermoset copolymer and semi-conducting black flame-retardant Chlorinated Polyethylene (CPE)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNISHIELD® (INSULATION THICKNESS) EPR DRTP SEMI-CON CPE JKT TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- 25 kV 100% insulation level
- 35 kV 133% insulation level

## Applications:

- Installed in a broad range of commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and fossil fuel utility generating stations



## Applications (cont'd.):

- Suitable for use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Reduced conductor size and shield system provide the smallest premium medium-voltage shielded power cable with full insulation
- Smaller outside dimensions reduce the size of duct needed or increase the ampacity per duct
- All features contribute to faster and easier installation
- Superior cold bend and cold impact performance
- Stable and constant shield short circuit performance
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low dielectric loss
- Low moisture absorption
- Electrical stability under stress
- Chemical-resistant

## Features (cont'd.):

- Sunlight-resistant
- Meets cold bend test at -55°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		DRAIN WIRE SIZE (AWG)	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4 (INCHES)
						DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
		INCHES	MIN.	MAX.		INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
25 kV* & 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS															
19261.685100*	1/0	0.34	1.020	1.120	17	1.29	32.77	1014	1509	367	546	215	215	295	4
19261.685200*	2/0	0.38	1.060	1.160	17	1.36	34.54	1163	1731	452	672	255	245	335	5
19261.685300*	3/0	0.43	1.105	1.205	17	1.41	35.81	1310	1949	559	832	290	275	380	5
19261.685400*	4/0	0.48	1.160	1.260	17	1.43	36.32	1442	2146	694	1033	330	315	435	5
19261.686000*	250	0.53	1.210	1.315	16	1.51	38.35	1645	2448	824	1226	365	345	475	5
19261.686200*	350	0.62	1.310	1.410	16	1.60	40.64	2024	3012	1133	1685	440	415	575	5
19261.686500*	500	0.74	1.430	1.530	16	1.74	44.20	2608	3881	1596	2374	535	500	700	6
19261.687000*	750	0.91	1.610	1.710	16	1.95	49.78	3596	5351	2368	3523	655	610	865	6
19261.687500*	1000	1.06	1.760	1.865	16	2.11	53.59	4513	6715	3138	4669	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

†100% insulation level is available upon request

\*\*133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all UniShield® constructions.



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# Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils



## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU

## Print (cont'd.):

UNIBLEND® PVC JKT (INSULATION THICKNESS)  
EPR TYPE MV-105 (VOLTAGE) KV% INSULATION  
LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL  
FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include  
"FOR CT USE".

## Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4 INCHES)
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		CONDUIT IN AIR (1)			UNDERGROUND DUCT (2)	DIRECT BURIAL (3)		
							INCHES	mm	LBS/1000 FT	kg/km		LBS/1000 FT	kg/km				
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS																	
17061.135100	1/0	0.34	1.020	1.115	0.080	2.03	1.31	33.27	1090	1622	425	633	215	215	295	5	
17061.135200*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	1211	1802	514	765	255	245	335	5	
17061.135300*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	625	930	290	275	380	5	
17061.135400	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1547	2302	765	1138	330	315	435	5	
17061.136000*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1712	2547	888	1322	365	345	475	5	
17061.136200	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	2108	3137	1206	1794	440	415	575	5	
17061.136500	500	0.74	1.430	1.530	0.080	2.03	1.78	45.21	2783	4141	1679	2498	535	500	700	6	
17061.137000*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	3733	5555	2467	3670	655	610	865	6	
17061.137500*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	4651	6921	3250	4836	755	690	1005	8	

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

\*100% insulation level is available upon request

\*\*133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils



## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

### Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 UL Flame Exposure Test
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs, are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT	AMPACITY			CONDUIT SIZING (4 INCHES)
							DIAMETER		WEIGHT			CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT				

### 25 kV\* AND 35 kV\*\*, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS

17061.135105	1/0	0.34	1.020	1.115	0.080	2.03	1.31	33.27	1090	1622	425	633	215	215	295	5
17061.135205*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	1211	1802	514	765	255	245	335	5
17061.135305*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	625	930	290	275	380	5
17061.135405	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1547	2302	765	1138	330	315	435	5
17061.136005*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1712	2547	888	1322	365	345	475	5
17061.136205	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	2108	3137	1206	1794	440	415	575	5
17061.136505	500	0.74	1.430	1.530	0.080	2.03	1.78	45.21	2783	4141	1679	2498	535	500	700	6
17061.137005*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	3733	5555	2467	3670	655	610	865	6
17061.137505*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	4651	6921	3250	4836	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

\*100% insulation level is available upon request

\*\*133% insulation level is available upon request

Note: The NESO Lightning bolt symbol is on all Uniblend® constructions.



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# Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 MILS



## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 UL Flame Exposure Test
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

## Options:

- 25 kV 100% insulation level
- 35 kV 133% insulation level

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR		INSULATION DIAMETER		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)		
		DIAMETER	INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)	DIRECT BURIAL (3)
								INCHES	mm	LBS/1000 FT	kg/km										
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVEL, 345 MILS																					
17061.135108*	1/0	0.34	1.020	1.115	0.080	2.03	1.31	33.27	863	1285	99	147	99	147	170	165	230	5			
17061.135208*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	925	1377	125	186	103	153	200	190	260	5			
17061.135308*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1000	1488	158	235	107	159	225	215	295	5			
17061.135408*	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1093	1626	199	296	112	167	260	245	340	5			
17061.136008*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1174	1747	234	348	116	173	290	270	370	5			
17061.136208*	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	1356	2018	329	490	125	186	350	330	450	5			
17061.136508*	500	0.74	1.430	1.530	0.080	2.03	1.78	45.21	1707	2540	468	696	135	201	430	400	545	6			
17061.137008*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	2120	3155	703	1046	151	225	540	490	680	6			
17061.137508*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	2500	3720	937	1394	162	241	640	565	795	8			

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(82) of the NEC for single insulated aluminum conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

¥100% insulation level is available upon request.

¥¥133% insulation level is available upon request.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield/CPE, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils

## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Flame-retardant, moisture- and sunlight-resistant Chlorinated Polyethylene (CPE)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® CPE JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

\* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

### Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-93-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS INCHES	NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			MIN.	MAX.		DIAMETER INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	

## 25 kV\* AND 35 kV\*\*, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS

17161.135100*	1/0	0.340	1.020	1.120	0.080	1.31	33.27	1066	1586	425	633	215	215	295	5
17161.135200*	2/0	0.380	1.060	1.160	0.080	1.35	34.29	1187	1766	514	765	255	245	335	5
17161.135300*	3/0	0.430	1.105	1.205	0.080	1.40	35.56	1335	1986	625	930	290	275	380	5
17161.135400*	4/0	0.480	1.160	1.260	0.080	1.45	36.83	1516	2256	765	1138	330	315	435	5
17161.136000*	250	0.530	1.210	1.315	0.080	1.51	38.35	1681	2501	888	1322	365	345	475	5
17161.136200*	350	0.630	1.310	1.410	0.080	1.60	40.64	2075	3088	1206	1794	440	415	575	5
17161.136500*	500	0.740	1.430	1.530	0.080	1.78	45.21	2644	3934	1679	2498	535	500	700	6
17161.137000*	750	0.910	1.610	1.710	0.110	1.96	49.78	3687	5486	2467	3670	655	610	865	6
17161.137500*	1000	1.060	1.760	1.865	0.110	2.10	53.59	4603	6849	3250	4836	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

¥100% insulation level is available upon request

¥133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# GenFree® Uniblend®

EPR/Copper Tape Shield/LSZH, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils



## Features (cont'd.):

- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Overall Jacket:

- Lead-free, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU GENFREE® UNIBLEND® LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV%

## Print (cont'd.):

INSULATION LEVEL SUN RES FOR CT USE (UL)  
SEQUENTIAL FOOTAGE MARK

- \* Sizes smaller than 1/0 AWG do not include "FOR CT USE".

## Options:

- STRANDFILL® - blocked conductor, Tested in accordance with ICEA T-31-610
- 25 kV 100% insulation level
- 35 kV 133% insulation level

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- ICEA T-33-655
- AEC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- **Optional Flame Tests:**
- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (INCHES)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS																
17261.135100*	1/0	0.34	1.020	1.115	0.080	2.03	1.31	33.27	1090	1622	425	633	215	215	295	5
17261.135200*	2/0	0.38	1.060	1.160	0.080	2.03	1.35	34.29	1211	1802	514	765	255	245	335	5
17261.135300*	3/0	0.43	1.105	1.205	0.080	2.03	1.40	35.56	1360	2024	625	930	290	275	380	5
17261.135400*	4/0	0.48	1.160	1.260	0.080	2.03	1.45	36.83	1547	2302	765	1138	330	315	435	5
17261.136000*	250	0.53	1.210	1.315	0.080	2.03	1.51	38.35	1712	2547	888	1322	365	345	475	5
17261.136200*	350	0.62	1.310	1.410	0.080	2.03	1.60	40.64	2108	3137	1206	1794	440	415	575	5
17261.136500*	500	0.74	1.430	1.530	0.080	2.03	1.78	45.21	2783	4141	1679	2498	535	500	700	6
17261.137000*	750	0.91	1.610	1.710	0.110	2.79	1.96	49.78	3733	5555	2467	3670	655	610	865	6
17261.137500*	1000	1.06	1.760	1.865	0.110	2.79	2.10	53.59	4651	6921	3250	4836	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

\*100% insulation level is available upon request

\*\*133% insulation level is available upon request

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield with Overall PVC Jacket, Medium-Voltage Power, Shielded  
25 kV and 35 kV, UL Type MV-105, 133%/100% Ins. Levels, 345 Mils, Three Conductor

## Product Construction:

### Conductor:

- 1/0 AWG thru 750 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

### Overall Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

### Options:

- Other jacket options available upon request
- Jacketed singles
- UniShield® singles



### Options (cont'd.):

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires
- 25 kV 100% insulation level
- 35 kV 133% insulation level

### Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- Suitable for use in wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

### Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

### Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
								DIAMETER		WEIGHT						
								INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS, THREE CONDUCTOR																
15493.485100*	1/0	0.34	1.020	1.115	4	0.110	2.79	2.73	69.34	3672	5464	1410	2098	215	210	255
15493.485200*	2/0	0.38	1.060	1.160	4	0.110	2.79	2.81	71.37	4061	6042	1675	2492	245	235	290
15493.485400*	4/0	0.48	1.160	1.260	3	0.140	3.56	3.10	78.74	5313	7906	2465	3668	320	305	375
15493.486000*	250	0.53	1.210	1.315	2	0.140	3.56	3.21	81.53	6214	9246	2879	4284	350	335	410
15493.486200*	350	0.62	1.310	1.410	2	0.140	3.56	3.42	86.86	7138	10621	3834	5705	430	400	495
15493.486500*	500	0.74	1.430	1.530	1	0.140	3.56	3.68	93.47	9012	13410	5312	7904	525	485	590
15493.487000*	750	0.91	1.610	1.710	1/0	0.140	3.56	4.10	104.14	12030	17901	7750	11532	635	585	720

\*Dimensions and weights are nominal; subject to industry tolerances.

Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(83) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 5, 100% load factor, and earth thermal resistance (rho) of 90.

Y100% insulation level is available upon request

Y133% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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www.generalcable.com



# Uniblend® LF EPR/Copper Tape Shield with Overall PVC Jacket

## Medium-Voltage Power, Shielded, 25 kV and 35 kV, UL Type MV-105

### 133%/100% Ins. Levels, 345 Mils, Three Conductor



#### Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

#### Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- UL 1685 (70,000 BTU/hr)
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

#### Optional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

#### Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

#### Product Construction:

##### Conductor:

- 1/0 AWG thru 750 kcmil annealed bare copper compact Class B strand

##### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

##### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting shield layers

##### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

##### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

##### Grounding Conductor:

- 1 bare grounding conductor may be in contact with metallic shielding tape

##### Overall Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

#### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 3/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL DIR BUR SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

#### Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610
- 3 bare copper ground wires
- Covered ground wires
- 25 kV 100% insulation level
- 35 kV 133% insulation level

#### Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical
- Suitable for use in wet or dry locations when installed in accordance with NEC
- In aerial, direct burial, conduit, open tray and underground duct installations

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER  INCHES	INSULATION DIAMETER INCHES		GROUND WIRE (AWG)	NOMINAL OVERALL JKT THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		
								DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)
								INCHES	MM	LBS/1000 FT	KG/KM					
25 kV* AND 35 kV**, UL TYPE MV-105, 133%/100% INS. LEVELS, 345 MILS, THREE CONDUCTOR																
15493.485105*	1/0	0.34	1.020	1.115	4	0.110	2.79	2.73	69.34	3672	5464	1410	2098	215	210	255
15493.485205*	2/0	0.38	1.060	1.160	4	0.110	2.79	2.81	71.37	4061	6042	1675	2492	245	235	290
15493.485405*	4/0	0.48	1.160	1.260	3	0.140	3.56	3.10	78.74	5313	7906	2465	3668	320	305	375
15493.486005*	250	0.53	1.210	1.315	2	0.140	3.56	3.21	81.53	6214	9246	2879	4284	350	335	410
15493.486205*	350	0.62	1.310	1.410	2	0.140	3.56	3.42	86.86	7138	10621	3834	5705	430	400	495
15493.486505*	500	0.74	1.430	1.530	1	0.140	3.56	3.68	93.47	9012	13410	5312	7904	525	485	590
15493.487005*	750	0.91	1.610	1.710	1/0	0.140	3.56	4.10	104.14	12030	17901	7750	11532	635	585	720

Dimensions and weights are nominal; subject to industry tolerances.

\*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(75) of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(79) of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(83) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 5, 100% load factor, and earth thermal resistance (rho) of 90.

¥100% insulation level is available upon request

¥¥133% insulation level is available upon request

Note: a) All sizes are "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend®

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils

## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

### Options:

- Other jacket options available upon request
- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

### Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
35 kV, UL TYPE MV-105, 133% INS. LEVELS, 420 MILS																
17071.135100*	1/0	0.34	1.060	1.265	0.080	2.03	1.47	37.34	1253	1864	437	650	215	215	295	5
17071.135200*	2/0	0.38	1.200	1.305	0.080	2.03	1.49	37.85	1378	2050	525	781	255	245	335	5
17071.135300*	3/0	0.43	1.245	1.355	0.080	2.03	1.53	38.86	1532	2280	636	946	290	275	380	5
17071.135400*	4/0	0.48	1.300	1.405	0.080	2.03	1.59	40.39	1716	2553	776	1155	330	315	435	6
17071.136000*	250	0.53	1.350	1.460	0.080	2.03	1.64	41.66	1888	2809	899	1338	365	345	475	6
17071.136200*	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	2396	3565	1217	1811	440	415	575	6
17071.136500*	500	0.74	1.570	1.675	0.110	2.79	1.91	48.5	2986	4443	1690	2515	535	500	700	6
17071.137000*	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	3954	5884	2477	3685	655	610	865	6
17071.137500*	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	4885	7269	3263	4855	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils



## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

## Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT CU UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK

## Options:

- STRANDFILL® - blocked conductor. Tested in accordance with ICEA T-31-610

## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
			INCHES	MIN. MAX.	INCHES	mm	DIAMETER		WEIGHT				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
		INCHES					mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km					
35 kV, UL TYPE MV-105, 133% INS. LEVELS, 420 MILS																
17071.135105*	1/0	0.34	1.060	1.265	0.080	2.03	1.47	37.34	1253	1864	437	650	215	215	295	5
17071.135205*	2/0	0.38	1.200	1.305	0.080	2.03	1.49	37.85	1378	2050	525	781	255	245	335	5
17071.135305*	3/0	0.43	1.245	1.355	0.080	2.03	1.53	38.86	1532	2280	636	946	290	275	380	5
17071.135405*	4/0	0.48	1.300	1.405	0.080	2.03	1.59	40.39	1716	2553	776	1155	330	315	435	6
17071.136005*	250	0.53	1.350	1.460	0.080	2.03	1.64	41.66	1888	2809	899	1338	365	345	475	6
17071.136205*	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	2396	3565	1217	1811	440	415	575	6
17071.136505*	500	0.74	1.570	1.675	0.110	2.79	1.91	48.5	2986	4443	1690	2515	535	500	700	6
17071.137005*	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	3954	5884	2477	3685	655	610	865	6
17071.137505*	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	4885	7269	3263	4855	755	690	1005	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(77) of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(81) of the NEC for single insulated copper conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



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# Aluminum Uniblend® LF

EPR/Copper Tape Shield/PVC, Medium-Voltage Power, Shielded  
35 kV, UL Type MV-105, 133% Ins. Levels, 420 Mils



## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil 1350 aluminum compact Class B STRANDFILL® blocked conductor

### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Jacket:

- Low-friction, lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC)

### Print:

- GENERAL CABLE® (PLANT OF MFG) (MO/YR OF MANUFACTURE) LIGHTNING BOLT SYMBOL 1/C SIZE (AWG OR KCMIL) COMPACT AL UNIBLEND® LF PVC JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK



## Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

## Features:

- Rated at 105°C
- Lower coefficient of friction for ease of installation
- Meets longitudinal water penetration resistance
- Excellent heat and moisture resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- IEEE 1202 (70,000 BTU/hr/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable

## Optional Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)

## Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER	INSULATION DIAMETER INCHES		NOMINAL JACKET THICKNESS		NOMINAL CABLE				ALUMINUM WEIGHT		COPPER WEIGHT		AMPACITY			CONDUIT SIZING (4) (INCHES)
							DIAMETER		WEIGHT						CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	DIRECT BURIAL (3)	
		INCHES	MIN.	MAX.	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km				
		35 kV, UL TYPE MV-105, 133% INS. LEVEL, 420 MILS																
17071.135108*	1/0	0.34	1.060	1.265	0.080	2.03	1.47	37.34	1026	1527	99	147	111	165	170	165	230	5
17071.135208*	2/0	0.38	1.200	1.305	0.080	2.03	1.49	37.85	1092	1625	125	186	114	170	200	190	260	5
17071.135308*	3/0	0.43	1.245	1.355	0.080	2.03	1.53	38.86	1172	1744	158	235	118	175	225	215	295	5
17071.135408*	4/0	0.48	1.300	1.405	0.080	2.03	1.59	40.39	1262	1878	199	296	123	183	260	245	340	6
17071.136008*	250	0.53	1.350	1.460	0.080	2.03	1.64	41.66	1350	2009	234	348	127	189	290	270	370	6
17071.136208*	350	0.62	1.450	1.555	0.110	2.79	1.79	45.47	1644	2447	329	490	136	202	350	330	450	6
17071.136508*	500	0.74	1.570	1.675	0.110	2.79	1.91	48.50	1910	2842	468	696	146	217	430	400	545	6
17071.137008*	750	0.91	1.750	1.860	0.110	2.79	2.09	53.09	2341	3484	703	1046	161	240	540	490	680	6
17071.137508*	1000	1.06	1.900	2.010	0.110	2.79	2.25	57.15	2734	4069	937	1394	175	260	640	565	795	8

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 310.60(C)(74) of the NEC for triplexed or three single conductor aluminum cables in isolated conduit in air based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310.60(C)(78) of the NEC for triplexed or three single conductor aluminum cables in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are in accordance with Table 310.60(C)(82) of the NEC for single insulated aluminum conductors directly buried in earth, based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), arrangement per Figure 310.60 Detail 9, 100% load factor, and earth thermal resistance (rho) of 90.

(4) Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Note: The NESC Lightning bolt symbol is on all Uniblend® constructions.



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