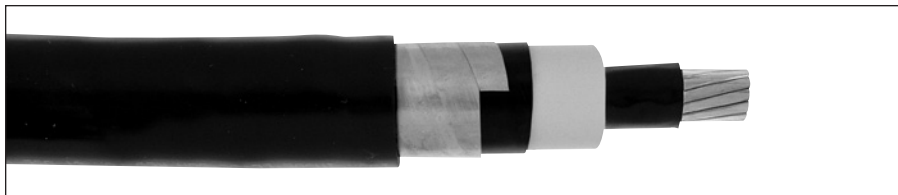


# Uniblend®

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	INCHES	mm	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	1.120	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	1.72	45.21	2650	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.

