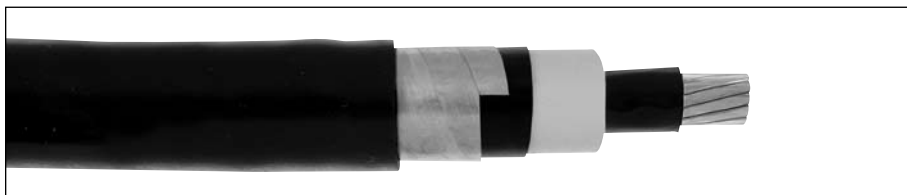


# Uniblend®

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



**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

**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)

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

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:**

- PVC jacket colors other than black
- Flame-retardant Chlorinated Polyethylene (CPE) jacket
- Low-Smoke, Zero-Halogen (LSZH) jacket
- 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)

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NOMINAL CONDUCTOR DIAMETER		INSULATION DIAMETER		NOMINAL JACKET THICKNESS		NOMINAL CABLE				COPPER WEIGHT		AMPACITY		CONDUIT SIZING (3) (INCHES)	
		INCHES	MIN.	MAX.	INCHES	mm	DIAMETER		WEIGHT		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)
							INCHES	mm	LBS/1000 FT	kg/km							
<b>5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS</b>																	
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 310-73 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 310-77 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  
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