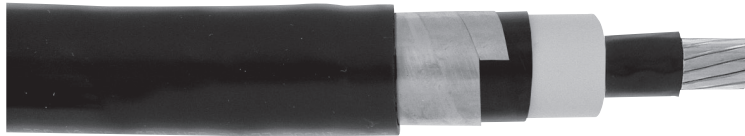


# Aluminum Uniblend® PVC

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 1350 aluminum compressed Class B strand

### Extruded Strand Shield (ESS):

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

### Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

- Annealed copper tape with an overlap of 25%

### Jacket:

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

### 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
- Easy Glider® low friction technology for easy cable pulling
- Excellent heat, moisture and sunlight resistance
- Excellent flame resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress

## Features (cont'd):

- Low dielectric loss
- Chemical-resistant
- Meets cold bend test at -35°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

## Compliances:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AIEC CS8 -13 (AIEC CS8-20, Optional)
- CSA C68.10
- CSA C22.2 No. 230 Type TC-ER (Sizes 1/0 AWG and larger)
- 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
- RoHS Compliant

## 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						AMPACITY						CONDUIT SIZING (4) (INCHES)
												ALUMINUM WEIGHT		COPPER WEIGHT		CONDUIT IN AIR (1)		UNDERGROUND DUCT (2)		
		INCHES	MIN.	MAX.	IN	mm	IN	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	90°C	105°C	90°C	105°C	90°C	

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

17001.120609	6	0.18	0.415	0.490	0.060	1.52	0.67	17.04	256	380	25	37	44	66	65	72	70	75	-	-	2
17001.120409	4	0.23	0.455	0.535	0.060	1.52	0.72	18.24	294	438	40	59	48	72	84	94	91	98	-	-	2
17001.120209	2	0.28	0.510	0.590	0.060	1.52	0.78	19.71	341	508	63	94	53	79	115	130	120	130	-	-	2.5
17001.120109	1	0.32	0.545	0.620	0.060	1.52	0.82	20.70	380	565	80	119	56	83	130	150	135	145	-	-	2.5
17001.125109	1/0	0.36	0.580	0.655	0.060	1.52	0.86	21.72	408	607	101	150	59	88	150	170	155	165	150	170	2.5
17001.125209	2/0	0.41	0.620	0.695	0.060	1.52	0.90	22.81	457	680	128	190	63	93	175	200	175	190	176	195	2.5
17001.125309	3/0	0.46	0.665	0.745	0.080	2.03	0.99	25.12	431	642	161	240	67	100	200	225	200	215	203	225	3
17001.135409	4/0	0.51	0.720	0.795	0.080	2.03	1.05	26.54	620	923	203	302	72	106	230	260	230	245	233	263	3
17001.136009	250	0.56	0.770	0.850	0.080	2.03	1.10	27.97	686	1021	239	356	76	113	255	290	250	270	259	289	3.5
17001.136209	350	0.66	0.870	0.945	0.080	2.03	1.20	30.58	836	1245	336	499	85	126	310	350	305	330	323	360	3.5
17001.136509	500	0.79	0.990	1.065	0.080	2.03	1.34	34.04	1049	1560	478	711	95	142	385	430	370	400	401	450	4
17001.137009	750	0.97	1.170	1.250	0.080	2.03	1.52	38.58	1396	2077	717	1067	111	166	485	540	455	490	525	585	5
17001.137509	1000	1.12	1.320	1.400	0.080	2.03	1.67	42.37	1724	2566	956	1422	125	186	565	640	525	565	630	705	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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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 90°C (194°F) or 105°C (221°F), temperature denoted in column header, 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), operating temperature denoted in column header. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(70).

(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 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.

