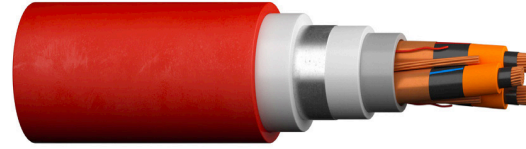


## AIRGUARD® Medium Voltage

EPR/Copper Tape Shield/Polymeric Armor/PVC, Shielded  
UL Type MV-105, 15kV, 133% Ins. Level



### Product Construction:

#### Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper per ASTM B3
- Compact Class B stranding per ASTM B496

#### Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress control layer over conductor

#### Insulation:

- Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semiconducting shield layers

#### Extruded Insulation Shield (EIS):

- Thermoset semi-conducting polymeric layer free stripping from insulation

#### Metallic Shield:

- Annealed copper tape with a nom. overlap of 25%

#### Ground Conductor(s):

- Three (3) split annealed bare copper ground conductors

#### Polymeric Armor:

- High strength and high crush resistant Air Bag™ layer extruded over the core assembly

#### Overall Jacket:

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

#### 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, moisture and sunlight 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 and cold impact test at -40°C
- 105°C rating for continuous operation
- 140°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

### Compliances:

#### Industry Compliances:

- UL 1072 Type MV105, UL File # E518856
- ICEA S-93-639 / NEMA WC74
- ICEA S-97-682
- AEIC CS8-13 (AEIC CS8-20, Optional)
- CSA Standard C68.10 MV68.10 (Optional)
- Mine Power Type MP-GC (Optional)

#### Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 1202
- CSA FT4

#### Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

#### Packaging:

- Material cut to length and shipped on nonreturnable wood reels

Product Number	Circuit Cond. Size (AWG)	Insulation Thickness (Mils)	Ground Wires		Nom. Cond. O.D. (In)	Nom. Insulation O.D. (In)	Nom. EIS O.D. (In)	Nom. Overall Cable O.D. (In)	Nom. Cable Weight (Lbs/ Kft)	†Ampacity (Amps)						
			#	Size						Conduit In Air (1)		Underground Duct (2)		Uncovered Tray (3)		
											90°C	105°C	90°C	105°C	90°C	105°C

### 15kV 133%/8kV 100% Copper Three Conductor

10550.00203310	2 AWG CU	220	3	#10	0.27	0.76	0.80	2.34	3147	145	165	150	160	165	185
10550.11003308	1/0 AWG CU	220	3	#8	0.34	0.83	0.88	2.48	3830	195	215	195	210	215	240
10550.21003308	2/0 AWG CU	220	3	#8	0.38	0.86	0.91	2.56	4228	220	245	220	235	245	275
10550.41003307	4/0 AWG CU	220	3	#7	0.47	0.96	1.02	2.75	5370	290	320	285	305	325	360
10550.25003306	250 AWG CU	220	3	#6	0.53	1.01	1.06	2.89	6054	315	350	310	335	360	400
10550.35003306	350 AWG CU	220	3	#6	0.62	1.11	1.16	3.20	7652	385	430	375	400	435	490
10550.50003305	500 AWG CU	220	3	#5	0.74	1.23	1.28	3.48	9745	470	525	450	485	535	600
10550.75003304	750 AWG CU	220	3	#4	0.92	1.42	1.47	3.87	13102	570	635	545	585	670	745
10550.75003304	1000 MCM CU	220	3	#3	1.07	1.57	1.62	4.22	16432	650	725	615	660	770	860

The above dimensions are approximate and subject to normal manufacturing tolerances.

† Ampacities are based on the following:

1) Ampacities are in accordance with Table 315.60(C)(9) of the 2023 NEC for three conductor copper 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 315.60(C)(13) of the 2023 NEC for three conductor copper 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 315.60(D)(3) Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

3) Ampacities are based on three conductor cables installed with at least one OD between cables in an uncovered tray in accordance with Section 392.80(B)(1)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 100% of the values per Table 315.60(C)(5), operating temperature denoted in column header.

EPROTENAX™ EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.