Uniblend® CPE High Speed
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:
- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

Extruded Insulation Shield (EIS):
- Thermost semi-conducting polymeric layer free from 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)

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 generation stations, steel mills, textile plants and other industrial three-phase applications

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
- 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

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>COND. SIZE (AWG/ kcmil)</th>
<th>NOMINAL CONDUCTOR DIAMETER</th>
<th>INSULATION DIAMETERS</th>
<th>NOMINAL JACKET THICKNESS</th>
<th>DIAMETER</th>
<th>WEIGHT</th>
<th>COPPER WEIGHT</th>
<th>AMPACITY</th>
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<tbody>
<tr>
<td></td>
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<td>INCHES MIN.</td>
<td>MAX. INCHES</td>
<td>mm</td>
<td>INCHES</td>
<td>mm</td>
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Dimensions and weights are nominal. Subject to industry tolerances.

(1) Ampacities are in accordance with Table 310.60(C)(73) of the NEC for triplexed or three single 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 earth temperature of 20˚C (68˚F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rth) of 90.

(2) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with NEC 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)(88), operating temperature denoted in column header. For cable trays with ventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(88).

(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)(88), operating temperature denoted in column header. For cable trays with ventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(88).

(4) 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)(88), operating temperature denoted in column header. For cable trays with ventilated covers for more than 6 feet, the ampacities shall not exceed 70% of the values per Table 310.60(C)(88).

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

The NEC Lightning bolt symbol is on all Uniblend® constructions.