

Medium Voltage

Super-Trex® Type MV-105 Cable

Super-Trex® Type MV-105 Medium Voltage is a single-conductor medium voltage cable for applications up to 15kV. This cable is ideal where tight spaces, a small bend radius or difficult installations are encountered.

This power cable features a braid insulation shield and fine conductor stranding that significantly improves cable flexibility, allowing installers/end-users to easily bend and maneuver the cable into tight spaces by hand.



Ratings



5kV and 15kV Ratings

133% Insulation Level

Max Conductor Temperature 105°C

Cold Temperature Rating -40°C

Type MV-105

For Cable Tray Use (Sizes 1/0 AWG and Larger)

FT4/IEEE 1202 Flame Rating

Performance Characteristics

- ✓ Sunlight Resistant
- ✓ Oil Resistant I
- ✓ Bend Radius (Static): 6x Cable O.D.
- ✓ Bend Radius (Dynamic): 8x Cable O.D.
- ✓ For use in Direct Burial applications when installed in accordance with NEC Article 315.36

Engineered to Resist



Flexing Abrasion Cold Temperature

Features & Benefits

Finely Stranded Tinned Copper Conductors

Fine stranding improves flex-life and reduces conductor fatigue and breakage. Tinned conductors resist corrosion and are easier to solder.

Combination Semi-Conductive Tape and Extruded Semi-Conductive TSE Conductor Shield

Bonded to the insulation for easy and clean stripping.

105°C EPR Moisture and Heat Resistant Thermoset Insulation

Resists effects of lubricating oils, coolants, cutting oils, acids, and most chemicals. Provides protection from moisture and heat.

Combination Extruded Semi-Conductive Layer & Semi-Conductive Tape with Flexible Composite Braid Insulation Shield

Composite braid shield of tinned copper/nylon for superior flexibility & torsional movement.

Specially Compounded Black TSE Jacket

Offers superior first-line defense against tearing, abrasion, impact, oil, ozone, and most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

Ordering Information

For complete product ordering information, please scan the QR Code or contact your ATPC sales representative

| Part No. | Voltage | Configuration AWG/Cond | Ampacity* | Conductor O.D. (in) | Insulation O.D. (in) | Nominal O.D. (in) | W.T. (lbs) Per 1,000 ft. |
|----------|---------|------------------------|-----------|---------------------|----------------------|-------------------|--------------------------|
| 790101 | 5kV | 1/0 AWG | 290 | 0.409 | 0.650 | 0.945 | 709 |
| 790104 | 5kV | 4/0 AWG | 445 | 0.579 | 0.820 | 1.115 | 1109 |
| 790106 | 5kV | 350 kcmil | 615 | 0.759 | 0.996 | 1.300 | 1653 |
| 790211 | 15kV | 1/0 AWG | 290 | 0.409 | 0.903 | 1.221 | 940 |
| 790214 | 15kV | 4/0 AWG | 445 | 0.579 | 1.074 | 1.385 | 1402 |
| 790216 | 15kV | 350 kcmil | 610 | 0.759 | 1.257 | 1.575 | 1998 |
| 790217 | 15kV | 500 kcmil | 765 | 0.895 | 1.402 | 1.755 | 2588 |



Notes

*Based on ambient temperature of 40°C, single-conductor isolated in air, conductor temperature of 105°C, per NEC, Table 315.60(C)(3).