

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 TPC 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).