

EPR Insulation-CPE Jacket, MV-105-100% or 133% Insulation Level, 15kV-Single Conductor, UNISHIELD®



Product Construction

Conductor:

- Annealed bare copper
- Compact, Class B stranding

Extruded Strand Shield:

- Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

- Ethylene Propylene rubber (EPR), colored to contrast with the black conducting shield layers
- MVU40201 - 100% Insulation Level
- MVU2021 - 133% Insulation Level

Composite Insulation Shield and Jacket:

- Six corrugated copper drain wires embedded in an extruded black conducting flame-retardant Chlorinated Polyethylene (CPE) composite insulation shield and jacket

Applications

- Suitable for use in wet or dry locations when installed in accordance with NEC
- Suitable for use in aerial, direct burial, 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

- Flexible for easy handling
- Meets Cold Bend Test at -55°C
- Reduced conductor size and shield system provides the smallest premium medium-voltage shielded, jacketed power cable with full insulation
- Smaller outside dimensions may reduce the size of duct needed or increase the ampacity per duct
- UL Listed as Type MV-105 for use in accordance with the NEC
- Sizes 1/0 AWG and larger are listed and marked "For CT Use" in accordance with the NEC, and also meets IEEE 383 (70,000 BTU/hr)
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- Temperature Ratings: Normal 105°C, Emergency 140°C, Short Circuit 250°C

Standards

- National Electric Code (NEC)
- UL 1072
- UL listed as Type MV-105 for use in accordance with NEC
- UL 1685
- IEEE 1202
- OSHA Acceptable

Medium Voltage Power Cable



Part #	AWG	Stranding	Insulation Thickness	Jacket Thickness	Nominal O.D. Over Insulation	Nom. O.D.	Lbs./M'
MVU40201	2	7	.175"	.080"	.664"	.841"	501
MVU20201	2	7	.220"	.080"	.755"	.930"	555
MVU41/001	1/0	19	.175"	.080"	.737"	.916"	661
MVU21/001	1/0	19	.220"	.080"	.828"	1.01"	715.5
MVU42/001	2/0	19	.175"	.080"	.780"	.960"	769
MVU22/001	2/0	19	.220"	.080"	.871"	1.07"	867
MVU44/001	4/0	19	.175"	.080"	.880"	1.07"	1079
MVU24/001	4/0	19	.220"	.080"	.971"	1.16"	1151
MVU225001	250	37	.220"	.085"	1.03"	1.24"	1349
MVU425001	250	37	.175"	.080"	.935"	1.13"	1232
MVU435001	350	37	.175"	.085"	1.03"	1.23"	1613
MVU235001	350	37	.220"	.085"	1.12"	1.33"	1691
MVU450001	500	37	.175"	.085"	1.16"	1.36"	2149
MVU250001	500	37	.220"	.085"	1.25"	1.46"	2238
MVU275001	750	61	.220"	.100"	1.43"	1.67"	3174
MVU475001	750	61	.175"	.100"	1.34"	1.56"	3064
MVU4100001	1000	61	.175"	.100"	1.50"	1.72"	3936
MVU2100001	1000	61	.220"	.100"	1.59"	1.86"	4164

*Accessories are available for all medium voltage products.

Note: The data shown is approximate and subject to standard industry and manufacturer tolerances.

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