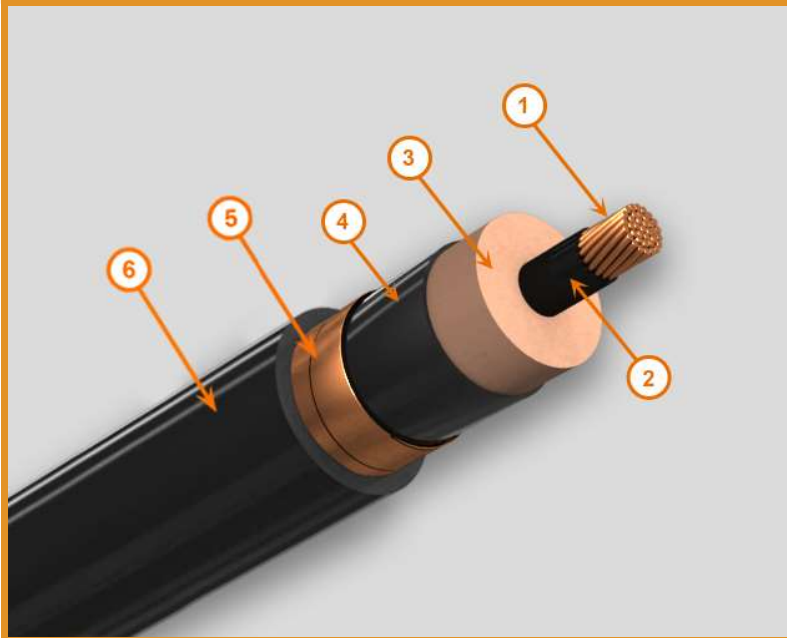


**VULCANEL<sup>M.R.</sup> CABLE, TYPE MV-105, SOFT COPPER STRANDED CONDUCTOR,  
133% EPR INSULATION AND PVC JACKET**



**Description:**

- 1-Round compact-stranded soft copper conductor
- 2-Semiconducting screen over conductor\*
- 3-EPR insulation (Ethylene-propylene compound)\*
- 4-Semiconducting screen over insulation\*
- 5-Non magnetic metal component made by soft copper tapes
- 6-Black thermoplastic PVC (Polyvinyl chloride) jacket\*\*

\*Insulation and semiconducting screens built on a real triple extruder by dry curing.

\*\* In order to make easy phase identification, it is possible to set a color strip over the jacket

**Application:**

- Service circuits
- Distribution circuits

**Features:**

- Low dielectric losses
- Good moisture resistance
- Excellent sunlight resistance
- Excellent resistance to most oils and chemicals
- Excellent abrasion resistance
- Excellent heat resistance
- Easy to install

**Special Features:**

- These cables may be marked as "Sun Res" or "Sunlight Resistance".
- These cables may be marked as "CT use".
- These cables are not to be marked as "Direct Burial", but tag, reel or carton may be marked as "For direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with NEC 250.4 (A) (5)".

**Specification:**

- UL-1072

**Nominal operating voltage:**

- 5 kV
- 8 kV
- 15 kV
- 25 kV
- 35 kV

**Maximum conductor temperatures:**

- Wet and dry continuous: 105°C
- Overload: 140°C
- Short circuit: 250°C

**Installation:**

- Ducts
- Direct Burial
- Cable trays

**Insulation:**

- Ethylene-propylene compound (EPR)

**Jacket:**

- Polyvinyl chloride (PVC)

**Package:**

- Wooden reel

**Productos certification:**

- UL file E89180 as MV-105

**How to order:**

- Vulcanel MV-105, nominal operating voltage, cable with soft copper compact-stranded conductor, conductor size, EPR insulation 133%, copper tapes, black PVC jacket, marking requirements, produced according to UL-1072 and length

**VULCANEL<sup>M.R.</sup> CABLE TYPE MV-105, SOFT COPPER STRANDED CONDUCTOR, 133% EPR INSULATION AND PVC JACKET**

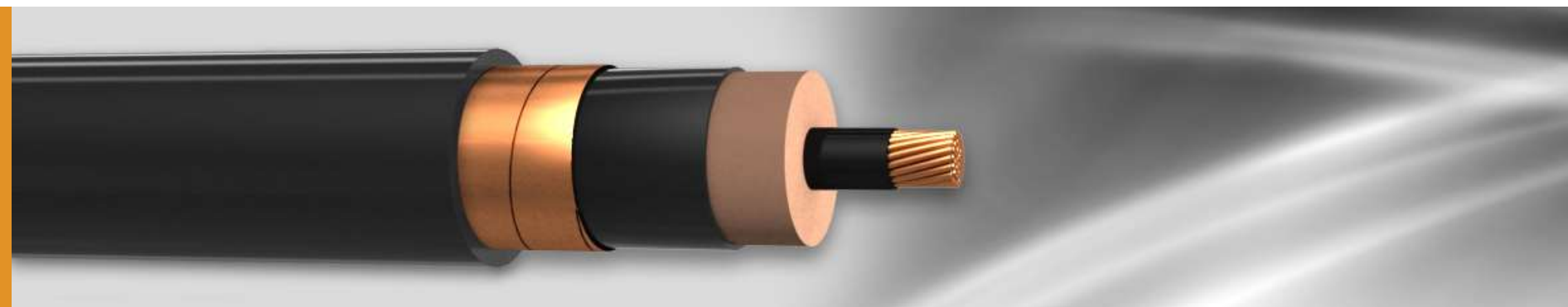


| Product number | Conductor size (AWG-kcmil) | Nominal operating voltage (V) | Conductor diameter (in) | Strand number | Insulation thickness (in) | Diameter over insulation (in) | Copper tape metallic shield thickness (in) | Overall diameter (in) | Total weight (lb/1000ft) |
|----------------|----------------------------|-------------------------------|-------------------------|---------------|---------------------------|-------------------------------|--------------------------------------------|-----------------------|--------------------------|
| 4011802        | 8                          | 5 000                         | 0.134                   | 7             | 0.110                     | 0.413                         | 0.005                                      | 0.665                 | 251                      |
| 4011801        | 4                          | 5 000                         | 0.213                   | 7             | 0.110                     | 0.493                         | 0.005                                      | 0.744                 | 366                      |
| 4011767        | 2                          | 5 000                         | 0.268                   | 7             | 0.110                     | 0.548                         | 0.005                                      | 0.800                 | 467                      |
| 4006104        | 1/0                        | 5 000                         | 0.337                   | 19            | 0.110                     | 0.616                         | 0.005                                      | 0.868                 | 620                      |
| 4011826        | 2/0                        | 5 000                         | 0.377                   | 19            | 0.110                     | 0.656                         | 0.005                                      | 0.908                 | 723                      |
| 4011832        | 3/0                        | 5 000                         | 0.425                   | 19            | 0.110                     | 0.705                         | 0.005                                      | 0.995                 | 873                      |
| 4011268        | 4/0                        | 5 000                         | 0.476                   | 19            | 0.110                     | 0.756                         | 0.005                                      | 1.046                 | 1 031                    |
| 4010893        | 500                        | 5 000                         | 0.736                   | 37            | 0.110                     | 1.023                         | 0.005                                      | 1.317                 | 2 076                    |
| 4011746        | 500                        | 8 000                         | 0.736                   | 37            | 0.135                     | 1.075                         | 0.005                                      | 1.388                 | 2 154                    |
| 4006198        | 2                          | 15 000                        | 0.268                   | 19            | 0.220                     | 0.756                         | 0.005                                      | 1.049                 | 657                      |
| 4011026        | 1/0                        | 15 000                        | 0.337                   | 19            | 0.220                     | 0.825                         | 0.005                                      | 1.118                 | 823                      |
| 4010090        | 2/0                        | 15 000                        | 0.377                   | 19            | 0.220                     | 0.865                         | 0.005                                      | 1.158                 | 933                      |
| 4011071        | 4/0                        | 15 000                        | 0.476                   | 19            | 0.220                     | 0.965                         | 0.005                                      | 1.258                 | 1 239                    |
| 4010088        | 250                        | 15 000                        | 0.520                   | 37            | 0.220                     | 1.016                         | 0.005                                      | 1.309                 | 1 400                    |
| 4006017        | 500                        | 15 000                        | 0.736                   | 37            | 0.220                     | 1.232                         | 0.005                                      | 1.545                 | 2 337                    |
| 4010631        | 750                        | 15 000                        | 0.906                   | 61            | 0.220                     | 1.409                         | 0.005                                      | 1.722                 | 3 231                    |
| 4005065        | 1000                       | 15 000                        | 1.059                   | 61            | 0.220                     | 1.563                         | 0.005                                      | 1.988                 | 4 298                    |
| 4011336        | 1/0                        | 25 000                        | 0.337                   | 19            | 0.305                     | 1.030                         | 0.005                                      | 1.323                 | 1 019                    |
| 4007901        | 250                        | 25 000                        | 0.520                   | 37            | 0.305                     | 1.220                         | 0.005                                      | 1.533                 | 1 650                    |
| 4011276        | 350                        | 25 000                        | 0.618                   | 37            | 0.305                     | 1.319                         | 0.005                                      | 1.629                 | 2 012                    |
| 4011880        | 500                        | 25 000                        | 0.736                   | 37            | 0.305                     | 1.437                         | 0.005                                      | 1.750                 | 2 592                    |

**Notes:**

- To get information about products not included on this sheet, please contact our Technical Assistance Department.
- These data may vary due to manufacturing tolerances.

**VULCANEL<sup>M.R.</sup> CABLE TYPE MV-105, SOFT COPPER STRANDED CONDUCTOR, 133% EPR INSULATION AND PVC JACKET**



| Product number | Conductor size (AWG-kcmil) | Nominal operating voltage (V) | Conductor diameter (in) | Strand number | Insulation thickness (in) | Diameter over insulation (in) | Copper tape metallic shield thickness (in) | Overall diameter (in) | Total weight (lb/1000ft) |
|----------------|----------------------------|-------------------------------|-------------------------|---------------|---------------------------|-------------------------------|--------------------------------------------|-----------------------|--------------------------|
| 4011334        | 750                        | 25 000                        | 0.906                   | 61            | 0.305                     | 1.614                         | 0.005                                      | 2.039                 | 3 713                    |
| 4011335        | 1000                       | 25 000                        | 1.059                   | 61            | 0.305                     | 1.768                         | 0.005                                      | 1.768                 | 4 626                    |
| 4009457        | 1/0                        | 35 000                        | 0.337                   | 19            | 0.410                     | 1.246                         | 0.005                                      | 1.559                 | 1 280                    |
| 4011929        | 4/0                        | 35 000                        | 0.476                   | 19            | 0.410                     | 1.386                         | 0.005                                      | 1.699                 | 1 737                    |
| 4007969        | 350                        | 35 000                        | 0.618                   | 37            | 0.410                     | 1.535                         | 0.005                                      | 1.928                 | 2 446                    |
| 4007968        | 500                        | 35 000                        | 0.736                   | 37            | 0.410                     | 1.654                         | 0.005                                      | 2.078                 | 3 080                    |
| 4011005        | 750                        | 35 000                        | 0.906                   | 61            | 0.410                     | 1.831                         | 0.005                                      | 2.255                 | 4 049                    |
| 4011868        | 1000                       | 35 000                        | 1.059                   | 61            | 0.410                     | 1.984                         | 0.005                                      | 2.409                 | 4 993                    |

**Notes:**

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