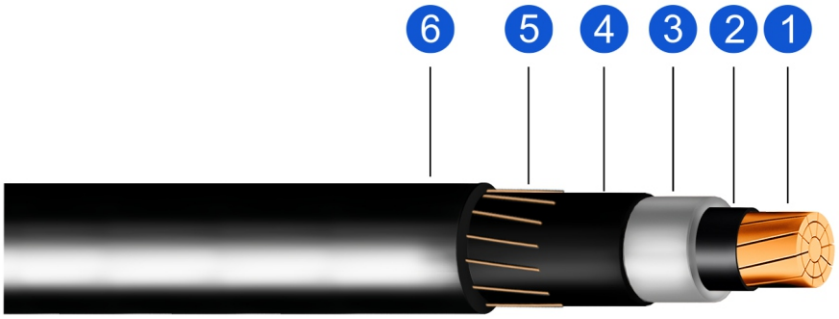
# INDULINK TYPE MV-105 5 kV 100% and 133% I.L.

XLPE/WIRESCREEN/PVC JACKET POWER CABLE




## CONSTRUCTION

**1- Conductor:** Compact class B stranded soft annealed bare copper as per ASTM B-496
**2- Conductor shield:** Extruded thermoset semi-conducting stress control layer
**3- Insulation:** Tree-retardant cross-linked polyethylene (TR-XLPE).
**4- Insulation shield:** Extruded thermoset strippable semi-conducting insulation shield.
**5- Copper wires shield:** one-third neutral concentric round annealed bare copper wires helically applied over the insulation shield.
**6- Jacket:** black flame retardant, sunlight and oil resistant I polyvinyl chloride (PVC).

## FEATURES AND APPLICATIONS

- INDULINK type MV-105 is suitable for use in wet or dry locations, in open air (exposed to sunlight), raceways, troughs, ducts and direct burial.
- Typical installations include feeder or branch circuits in generating stations, industrial and commercial installations.
- Rated at maximum operating temperature of 105 °C for normal operation, 140 °C for emergency overload and 250 °C for short-circuit conditions.
- Superior current carrying capacity.
- True triple and dry curing extrusion system.
- Excellent flexibility.
- Excellent corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-105 under file E-500191.

## STANDARDS

ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire
ASTM B-496 - Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors
UL 1072 - Medium-Voltage Power Cables
ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribution of Electric Energy

## COPPER CONDUCTOR, 5 kV 100 % INSULATION LEVEL, 90 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 825101045 | 4 | 0.21 | 0.469 | 0.531 | 0.794 | 488 | 953 | 110 | 120 | 3 |
| 825101047 | 2 | 0.27 | 0.522 | 0.585 | 0.878 | 662 | 1229 | 145 | 155 | 3 |
| 825101048 | 1 | 0.30 | 0.554 | 0.617 | 0.909 | 815 | 1410 | 175 | 180 | 3 |
| 825101049 | 1/0 | 0.33 | 0.591 | 0.654 | 0.946 | 1032 | 1658 | 200 | 210 | 3 |
| 825101050 | 2/0 | 0.37 | 0.631 | 0.694 | 0.986 | 1291 | 1948 | 225 | 235 | 3 |
| 825101051 | 3/0 | 0.42 | 0.677 | 0.740 | 1.032 | 1630 | 2324 | 270 | 270 | 3 |
| 825101052 | 4/0 | 0.47 | 0.731 | 0.794 | 1.086 | 2066 | 2799 | 305 | 310 | 3 ½ |
| 825101053 | 250 | 0.52 | 0.774 | 0.837 | 1.130 | 2433 | 3199 | 355 | 345 | 3 ½ |
| 825101054 | 350 | 0.61 | 0.869 | 0.932 | 1.224 | 3390 | 4221 | 430 | 415 | 3 ½ |
| 825101057 | 500 | 0.73 | 0.991 | 1.054 | 1.447 | 4868 | 5962 | 530 | 505 | 4 |
| 825101060 | 750 | 0.90 | 1.156 | 1.219 | 1.612 | 7359 | 8561 | 665 | 630 | 5 |
| 825101062 | 1000 | 1.06 | 1.312 | 1.375 | 1.828 | 9752 | 11268 | 770 | 720 | 6 |

## COPPER CONDUCTOR, 5 kV 133 % INSULATION LEVEL, 115 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 826801045 | 4 | 0.21 | 0.489 | 0.552 | 0.844 | 488 | 1027 | 110 | 120 | 3 |
| 826801047 | 2 | 0.27 | 0.543 | 0.606 | 0.898 | 662 | 1258 | 145 | 155 | 3 |
| 826801048 | 1 | 0.30 | 0.574 | 0.637 | 0.930 | 815 | 1439 | 175 | 180 | 3 |
| 826801049 | 1/0 | 0.33 | 0.612 | 0.675 | 0.967 | 1032 | 1688 | 200 | 210 | 3 |
| 826801050 | 2/0 | 0.37 | 0.651 | 0.714 | 1.006 | 1291 | 1980 | 225 | 235 | 3 |
| 826801051 | 3/0 | 0.42 | 0.698 | 0.761 | 1.053 | 1630 | 2356 | 270 | 270 | 3 |
| 826801052 | 4/0 | 0.47 | 0.752 | 0.815 | 1.107 | 2066 | 2834 | 305 | 310 | 3 ½ |
| 826801053 | 250 | 0.52 | 0.795 | 0.858 | 1.150 | 2433 | 3234 | 355 | 345 | 3 ½ |
| 826801054 | 350 | 0.61 | 0.889 | 0.952 | 1.244 | 3390 | 4260 | 430 | 415 | 4 |
| 826801057 | 500 | 0.73 | 1.011 | 1.074 | 1.467 | 4868 | 6007 | 530 | 505 | 4 |
| 826801060 | 750 | 0.90 | 1.177 | 1.240 | 1.693 | 7359 | 8802 | 665 | 630 | 5 |
| 826801062 | 1000 | 1.06 | 1.332 | 1.395 | 1.848 | 9752 | 11325 | 770 | 720 | 6 |

*(1) Ampacities are in accordance with table 310.60(C)(73) of the NEC for insulated triplexed or three single-conductor copper cables in isolated conduit in air based on conductor temperatures of 105°C (221°F) and ambient air temperature of 40°C (104°F).*

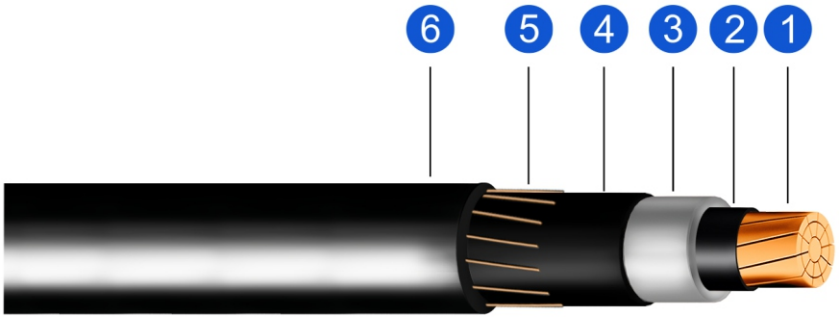
*(2) Ampacities are in accordance with table 310.60(C)(77) of the NEC for three single-insulated copper conductors in underground electrical ducts (three conductors per electrical duct) based on ambient earth temperature of 20°C (68°F) electrical duct arrangement in accordance with figure 31060 detail 1 100 percent load factor thermal resistance (rho) of 90 conductor temperatures of 105°C (221°F).*

*Jam ratio has not been considered and should be checked to avoid possible jamming.*

*Values are nominal and subject to manufacturing tolerances.*

# INDULINK TYPE MV-105 8 kV 100% and 133% I.L.

XLPE/WIRESCREEN/PVC JACKET POWER CABLE




## CONSTRUCTION

**1- Conductor:** Compact class B stranded soft annealed bare copper as per ASTM B-496
**2- Conductor shield:** Extruded thermoset semi-conducting stress control layer
**3- Insulation:** Tree-retardant cross-linked polyethylene (TR-XLPE).
**4- Insulation shield:** Extruded thermoset strippable semi-conducting insulation shield.
**5- Copper wires shield:** one-third neutral concentric round annealed bare copper wires helically applied over the insulation shield.
**6- Jacket:** black flame retardant, sunlight and oil resistant I polyvinyl chloride (PVC).

## FEATURES AND APPLICATIONS

- INDULINK type MV-105 is suitable for use in wet or dry locations, in open air (exposed to sunlight), raceways, troughs, ducts and direct burial.
- Typical installations include feeder or branch circuits in generating stations, industrial and commercial installations.
- Rated at maximum operating temperature of 105 °C for normal operation, 140 °C for emergency overload and 250 °C for short-circuit conditions.
- Superior current carrying capacity.
- True triple and dry curing extrusion system.
- Excellent flexibility.
- Excellent corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-105 under file E-500191.

## STANDARDS

ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire
ASTM B-496 - Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors
UL 1072 - Medium-Voltage Power Cables
ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribution of Electric Energy

# INDULINK TYPE MV-105 8 kV 100% and 133% I.L.

XLPE/WIRE SCREEN/PVC JACKET POWER CABLE

## COPPER CONDUCTOR, 8 kV 100 % INSULATION LEVEL, 115 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 825201045 | 4 | 0.21 | 0.518 | 0.581 | 0.873 | 488 | 1066 | 120 | 125 | 3 |
| 825201047 | 2 | 0.27 | 0.572 | 0.635 | 0.927 | 662 | 1299 | 165 | 165 | 3 |
| 825201048 | 1 | 0.30 | 0.604 | 0.667 | 0.959 | 815 | 1482 | 190 | 185 | 3 |
| 825201049 | 1/0 | 0.33 | 0.641 | 0.704 | 0.996 | 1032 | 1732 | 215 | 215 | 3 |
| 825201050 | 2/0 | 0.37 | 0.680 | 0.743 | 1.035 | 1291 | 2026 | 255 | 245 | 3 |
| 825201051 | 3/0 | 0.42 | 0.727 | 0.790 | 1.082 | 1630 | 2404 | 290 | 275 | 3 |
| 825201052 | 4/0 | 0.47 | 0.781 | 0.844 | 1.136 | 2066 | 2884 | 330 | 315 | 3 ½ |
| 825201053 | 250 | 0.52 | 0.824 | 0.887 | 1.179 | 2433 | 3286 | 365 | 345 | 3 ½ |
| 825201054 | 350 | 0.61 | 0.919 | 0.981 | 1.274 | 3390 | 4316 | 440 | 415 | 4 |
| 825201057 | 500 | 0.73 | 1.041 | 1.104 | 1.496 | 4868 | 6072 | 535 | 500 | 5 |
| 825201060 | 750 | 0.90 | 1.206 | 1.269 | 1.722 | 7359 | 8877 | 655 | 610 | 5 |
| 825201062 | 1000 | 1.06 | 1.361 | 1.424 | 1.877 | 9752 | 11407 | 755 | 690 | 6 |

## COPPER CONDUCTOR, 8 kV 133 % INSULATION LEVEL, 140 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 826901045 | 4 | 0.21 | 0.569 | 0.631 | 0.924 | 488 | 1137 | 120 | 125 | 3 |
| 826901047 | 2 | 0.27 | 0.622 | 0.685 | 0.978 | 662 | 1374 | 165 | 165 | 3 |
| 826901048 | 1 | 0.30 | 0.654 | 0.717 | 1.009 | 815 | 1559 | 190 | 185 | 3 |
| 826901049 | 1/0 | 0.33 | 0.691 | 0.754 | 1.046 | 1032 | 1812 | 215 | 215 | 3 |
| 826901050 | 2/0 | 0.37 | 0.731 | 0.794 | 1.086 | 1291 | 2108 | 255 | 245 | 3 |
| 826901051 | 3/0 | 0.42 | 0.777 | 0.840 | 1.132 | 1630 | 2490 | 290 | 275 | 3 ½ |
| 826901052 | 4/0 | 0.47 | 0.831 | 0.894 | 1.186 | 2066 | 2973 | 330 | 315 | 3 ½ |
| 826901053 | 250 | 0.52 | 0.874 | 0.937 | 1.230 | 2433 | 3379 | 365 | 345 | 3 ½ |
| 826901054 | 350 | 0.61 | 0.969 | 1.032 | 1.324 | 3390 | 4415 | 440 | 415 | 4 |
| 826901057 | 500 | 0.73 | 1.091 | 1.154 | 1.547 | 4868 | 6188 | 535 | 500 | 5 |
| 826901060 | 750 | 0.90 | 1.256 | 1.319 | 1.772 | 7359 | 9010 | 655 | 610 | 5 |
| 826901062 | 1000 | 1.06 | 1.412 | 1.475 | 1.928 | 9752 | 11551 | 755 | 690 | 6 |

*(1) Ampacities are in accordance with table 310.60(C)(73) of the NEC for insulated triplexed or three single-conductor copper cables in isolated conduit in air based on conductor temperatures of 105°C (221°F) and ambient air temperature of 40°C (104°F).*

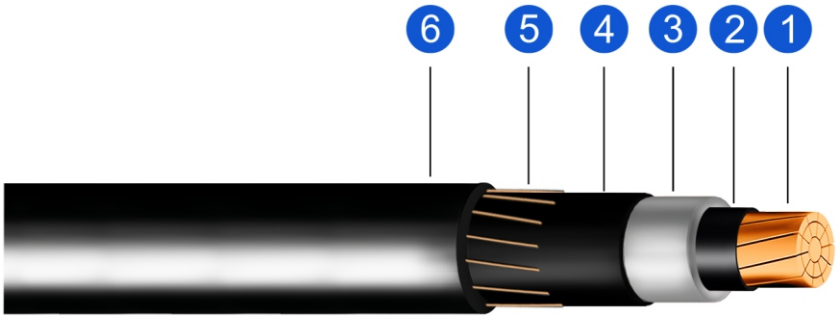
*(2) Ampacities are in accordance with table 310.60(C)(77) of the NEC for three single-insulated copper conductors in underground electrical ducts (three conductors per electrical duct) based on ambient earth temperature of 20°C (68°F) electrical duct arrangement in accordance with figure 31060 detail 1 100 percent load factor thermal resistance (rho) of 90 conductor temperatures of 105°C (221°F).*

*Jam ratio has not been considered and should be checked to avoid possible jamming.*

*Values are nominal and subject to manufacturing tolerances.*

# INDULINK TYPE MV-105 15 kV 100% and 133% I.L.

XLPE/WIRESCREEN/PVC JACKET POWER CABLE




## CONSTRUCTION

**1- Conductor:** Compact class B stranded soft annealed bare copper as per ASTM B-496
**2- Conductor shield:** Extruded thermoset semi-conducting stress control layer
**3- Insulation:** Tree-retardant cross-linked polyethylene (TR-XLPE).
**4- Insulation shield:** Extruded thermoset strippable semi-conducting insulation shield.
**5- Copper wires shield:** one-third neutral concentric round annealed bare copper wires helically applied over the insulation shield.
**6- Jacket:** black flame retardant, sunlight and oil resistant I polyvinyl chloride (PVC).

## FEATURES AND APPLICATIONS

- INDULINK type MV-105 is suitable for use in wet or dry locations, in open air (exposed to sunlight), raceways, troughs, ducts and direct burial.
- Typical installations include feeder or branch circuits in generating stations, industrial and commercial installations.
- Rated at maximum operating temperature of 105 °C for normal operation, 140 °C for emergency overload and 250 °C for short-circuit conditions.
- Superior current carrying capacity.
- True triple and dry curing extrusion system.
- Excellent flexibility.
- Excellent corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-105 under file E-500191.

## STANDARDS

ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire
ASTM B-496 - Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors
UL 1072 - Medium-Voltage Power Cables
ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribution of Electric Energy

# INDULINK TYPE MV-105 15 kV 100% and 133% I.L.

XLPE/WIRE SCREEN/PVC JACKET POWER CABLE

## COPPER CONDUCTOR, 15 kV 100 % INSULATION LEVEL, 175 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 825301047 | 2 | 0.27 | 0.682 | 0.745 | 1.069 | 662 | 1467 | 165 | 165 | 3 |
| 825301048 | 1 | 0.30 | 0.714 | 0.777 | 1.106 | 815 | 1655 | 190 | 185 | 3 |
| 825301049 | 1/0 | 0.33 | 0.751 | 0.814 | 1.146 | 1032 | 1911 | 215 | 215 | 3 |
| 825301050 | 2/0 | 0.37 | 0.791 | 0.854 | 1.192 | 1291 | 2210 | 255 | 245 | 3 ½ |
| 825301051 | 3/0 | 0.42 | 0.837 | 0.900 | 1.246 | 1630 | 2596 | 290 | 275 | 3 ½ |
| 825301052 | 4/0 | 0.47 | 0.891 | 0.954 | 1.289 | 2066 | 3084 | 330 | 315 | 3 ½ |
| 825301053 | 250 | 0.52 | 0.934 | 0.997 | 1.384 | 2433 | 3494 | 365 | 345 | 4 |
| 825301054 | 350 | 0.61 | 1.029 | 1.092 | 1.607 | 3390 | 4538 | 440 | 415 | 4 |
| 825301057 | 500 | 0.73 | 1.151 | 1.214 | 1.832 | 4868 | 6330 | 535 | 500 | 5 |
| 825301060 | 750 | 0.90 | 1.316 | 1.379 | 1.987 | 7359 | 9173 | 655 | 610 | 6 |
| 825301062 | 1000 | 1.06 | 1.472 | 1.535 | 1.069 | 9752 | 11727 | 755 | 690 | 6 |

## COPPER CONDUCTOR, 15 kV 133 % INSULATION LEVEL, 220 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 827001047 | 2 | 0.27 | 0.772 | 0.835 | 1.127 | 662 | 1616 | 165 | 165 | 3 ½ |
| 827001048 | 1 | 0.30 | 0.804 | 0.867 | 1.159 | 815 | 1808 | 190 | 185 | 3 ½ |
| 827001049 | 1/0 | 0.33 | 0.841 | 0.904 | 1.196 | 1032 | 2069 | 215 | 215 | 3 ½ |
| 827001050 | 2/0 | 0.37 | 0.880 | 0.943 | 1.235 | 1291 | 2373 | 255 | 245 | 3 ½ |
| 827001051 | 3/0 | 0.42 | 0.927 | 0.990 | 1.282 | 1630 | 2765 | 290 | 275 | 3 ½ |
| 827001052 | 4/0 | 0.47 | 0.981 | 1.044 | 1.336 | 2066 | 3260 | 330 | 315 | 4 |
| 827001053 | 250 | 0.52 | 1.024 | 1.087 | 1.379 | 2433 | 3675 | 365 | 345 | 4 |
| 827001054 | 350 | 0.61 | 1.119 | 1.181 | 1.474 | 3390 | 4731 | 440 | 415 | 5 |
| 827001057 | 500 | 0.73 | 1.241 | 1.304 | 1.756 | 4868 | 6750 | 535 | 500 | 5 |
| 827001060 | 750 | 0.90 | 1.406 | 1.469 | 1.922 | 7359 | 9426 | 655 | 610 | 6 |
| 827001062 | 1000 | 1.06 | 1.561 | 1.624 | 2.077 | 9752 | 12000 | 755 | 690 | 6 |

*(1) Ampacities are in accordance with table 310.60(C)(73) of the NEC for insulated triplexed or three single-conductor copper cables in isolated conduit in air based on conductor temperatures of 105°C (221°F) and ambient air temperature of 40°C (104°F).*

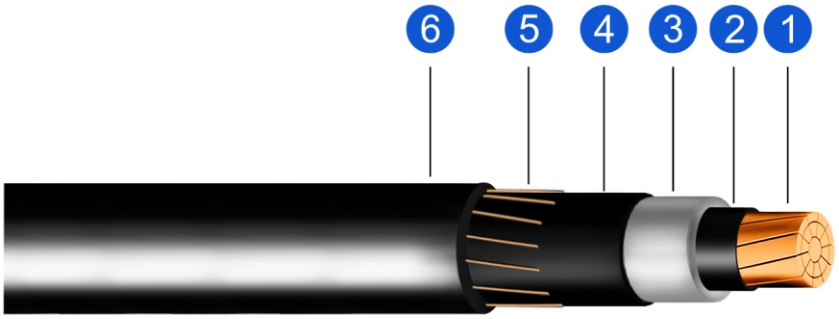
*(2) Ampacities are in accordance with table 310.60(C)(77) of the NEC for three single-insulated copper conductors in underground electrical ducts (three conductors per electrical duct) based on ambient earth temperature of 20°C (68°F) electrical duct arrangement in accordance with figure 31060 detail 1 100 percent load factor thermal resistance (rho) of 90 conductor temperatures of 105°C (221°F).*

*Jam ratio has not been considered and should be checked to avoid possible jamming.*

*Values are nominal and subject to manufacturing tolerances.*

# INDULINK TYPE MV-105 25 kV 100% and 133% I.L.

XLPE/WIRESCREEN/PVC JACKET POWER CABLE




## CONSTRUCTION

**1- Conductor:** Compact class B stranded soft annealed bare copper as per ASTM B-496
**2- Conductor shield:** Extruded thermoset semi-conducting stress control layer
**3- Insulation:** Tree-retardant cross-linked polyethylene (TR-XLPE).
**4- Insulation shield:** Extruded thermoset strippable semi-conducting insulation shield.
**5- Copper wires shield:** one-third neutral concentric round annealed bare copper wires helically applied over the insulation shield.
**6- Jacket:** black flame retardant, sunlight and oil resistant I polyvinyl chloride (PVC).

## FEATURES AND APPLICATIONS

- INDULINK type MV-105 is suitable for use in wet or dry locations, in open air (exposed to sunlight), raceways, troughs, ducts and direct burial.
- Typical installations include feeder or branch circuits in generating stations, industrial and commercial installations.
- Rated at maximum operating temperature of 105 °C for normal operation, 140 °C for emergency overload and 250 °C for short-circuit conditions.
- Superior current carrying capacity.
- True triple and dry curing extrusion system.
- Excellent flexibility.
- Excellent corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-105 under file E-500191.

## STANDARDS

ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire
ASTM B-496 - Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors
UL 1072 - Medium-Voltage Power Cables
ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribution of Electric Energy

# INDULINK TYPE MV-105 25 kV 100% and 133% I.L.

XLPE/WIRE SCREEN/PVC JACKET POWER CABLE

## COPPER CONDUCTOR, 25 kV 100 % INSULATION LEVEL, 260 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 825401048 | 1 | 0.30 | 0.874 | 0.937 | 1.229 | 815 | 1935 | 190 | 185 | 3 ½ |
| 825401049 | 1/0 | 0.33 | 0.911 | 0.974 | 1.266 | 1032 | 2200 | 215 | 215 | 3 ½ |
| 825401050 | 2/0 | 0.37 | 0.950 | 1.013 | 1.306 | 1291 | 2509 | 255 | 245 | 4 |
| 825401051 | 3/0 | 0.42 | 0.997 | 1.060 | 1.352 | 1630 | 2905 | 290 | 275 | 4 |
| 825401052 | 4/0 | 0.47 | 1.051 | 1.114 | 1.406 | 2066 | 3405 | 330 | 315 | 4 |
| 825401053 | 250 | 0.52 | 1.094 | 1.157 | 1.449 | 2433 | 3825 | 365 | 345 | 5 |
| 825401054 | 350 | 0.61 | 1.189 | 1.252 | 1.544 | 3390 | 4891 | 440 | 415 | 5 |
| 825401057 | 500 | 0.73 | 1.311 | 1.374 | 1.826 | 4868 | 6939 | 535 | 500 | 5 |
| 825401060 | 750 | 0.90 | 1.476 | 1.539 | 1.992 | 7359 | 9632 | 655 | 610 | 6 |
| 825401062 | 1000 | 1.06 | 1.631 | 1.694 | 2.147 | 9752 | 12222 | 755 | 690 | 6 |

## COPPER CONDUCTOR, 25 kV 133 % INSULATION LEVEL, 320 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 827101048 | 1 | 0.30 | 0.994 | 1.057 | 1.349 | 815 | 2171 | 190 | 185 | 4 |
| 827101049 | 1/0 | 0.33 | 1.031 | 1.094 | 1.387 | 1032 | 2442 | 215 | 215 | 4 |
| 827101050 | 2/0 | 0.37 | 1.071 | 1.134 | 1.426 | 1291 | 2757 | 255 | 245 | 4 |
| 827101051 | 3/0 | 0.42 | 1.117 | 1.180 | 1.472 | 1630 | 3162 | 290 | 275 | 5 |
| 827101052 | 4/0 | 0.47 | 1.171 | 1.234 | 1.526 | 2066 | 3672 | 330 | 315 | 5 |
| 827101053 | 250 | 0.52 | 1.215 | 1.278 | 1.570 | 2433 | 4098 | 365 | 345 | 5 |
| 827101054 | 350 | 0.61 | 1.309 | 1.372 | 1.724 | 3390 | 5374 | 440 | 415 | 5 |
| 827101057 | 500 | 0.73 | 1.431 | 1.494 | 1.947 | 4868 | 7281 | 535 | 500 | 6 |
| 827101060 | 750 | 0.90 | 1.596 | 1.659 | 2.112 | 7359 | 10002 | 655 | 610 | 6 |
| 827101062 | 1000 | 1.06 | 1.752 | 1.815 | 2.268 | 9752 | 12619 | 755 | 690 | 7 |

*(1) Ampacities are in accordance with table 310.60(C)(73) of the NEC for insulated triplexed or three single-conductor copper cables in isolated conduit in air based on conductor temperatures of 105°C (221°F) and ambient air temperature of 40°C (104°F).*

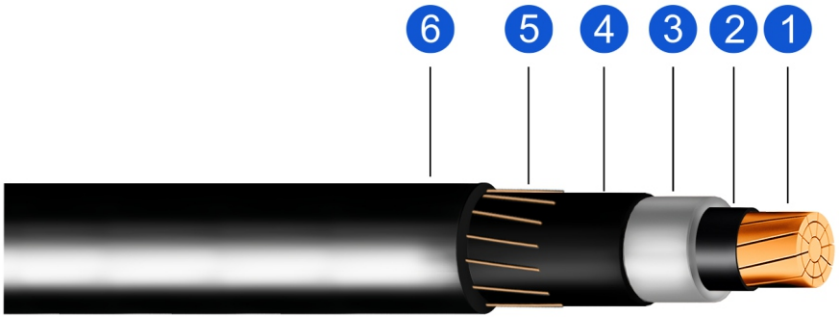
*(2) Ampacities are in accordance with table 310.60(C)(77) of the NEC for three single-insulated copper conductors in underground electrical ducts (three conductors per electrical duct) based on ambient earth temperature of 20°C (68°F) electrical duct arrangement in accordance with figure 31060 detail 1 100 percent load factor thermal resistance (rho) of 90 conductor temperatures of 105°C (221°F).*

*Jam ratio has not been considered and should be checked to avoid possible jamming.*

*Values are nominal and subject to manufacturing tolerances.*

# INDULINK TYPE MV-105 35 kV 100% and 133% I.L.

XLPE/WIRESCREEN/PVC JACKET POWER CABLE




## CONSTRUCTION

**1- Conductor:** Compact class B stranded soft annealed bare copper as per ASTM B-496
**2- Conductor shield:** Extruded thermoset semi-conducting stress control layer
**3- Insulation:** Tree-retardant cross-linked polyethylene (TR-XLPE).
**4- Insulation shield:** Extruded thermoset strippable semi-conducting insulation shield.
**5- Copper wires shield:** one-third neutral concentric round annealed bare copper wires helically applied over the insulation shield.
**6- Jacket:** black flame retardant, sunlight and oil resistant I polyvinyl chloride (PVC).

## FEATURES AND APPLICATIONS

- INDULINK type MV-105 is suitable for use in wet or dry locations, in open air (exposed to sunlight), raceways, troughs, ducts and direct burial.
- Typical installations include feeder or branch circuits in generating stations, industrial and commercial installations.
- Rated at maximum operating temperature of 105 °C for normal operation, 140 °C for emergency overload and 250 °C for short-circuit conditions.
- Superior current carrying capacity.
- True triple and dry curing extrusion system.
- Excellent flexibility.
- Excellent corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-105 under file E-500191.

## STANDARDS

ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire
ASTM B-496 - Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors
UL 1072 - Medium-Voltage Power Cables
ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribution of Electric Energy

## COPPER CONDUCTOR, 35 kV 100 % INSULATION LEVEL, 345 MILS

| PRODUCT CODE | COND. SIZE (AWG or kcmil) | NOMINAL CONDUCTOR DIAMETER (inches) | NOMINAL INSULATION DIAM. (inches) | NOMINAL INSULATION SHIELD DIAM. (inches) | NOMINAL DIAMETER OVER JACKET (inches) | APPROX. WEIGHT (lb/kft) | | AMPACITY (A) | | CONDUIT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | COPPER | TOTAL | CONDUIT IN AIR (1) | UNDERGROUND DUCT (2) | |
| 825501049 | 1/0 | 0.33 | 1.081 | 1.144 | 1.436 | 1032 | 2548 | 215 | 215 | 4 |
| 825501050 | 2/0 | 0.37 | 1.120 | 1.183 | 1.476 | 1291 | 2866 | 255 | 245 | 5 |
| 825501051 | 3/0 | 0.42 | 1.167 | 1.230 | 1.522 | 1630 | 3274 | 290 | 275 | 5 |
| 825501052 | 4/0 | 0.47 | 1.221 | 1.284 | 1.576 | 2066 | 3787 | 330 | 315 | 5 |
| 825501053 | 250 | 0.52 | 1.264 | 1.327 | 1.619 | 2433 | 4217 | 365 | 345 | 5 |
| 825501054 | 350 | 0.61 | 1.359 | 1.422 | 1.774 | 3390 | 5505 | 440 | 415 | 5 |
| 825501057 | 500 | 0.73 | 1.481 | 1.544 | 1.996 | 4868 | 7428 | 535 | 500 | 6 |
| 825501060 | 750 | 0.90 | 1.646 | 1.709 | 2.162 | 7359 | 10161 | 655 | 610 | 6 |
| 825501062 | 1000 | 1.06 | 1.802 | 1.865 | 2.317 | 9752 | 12788 | 755 | 690 | 7 |

*(1) Ampacities are in accordance with table 310.60(C)(73) of the NEC for insulated triplexed or three single-conductor copper cables in isolated conduit in air based on conductor temperatures of 105°C (221°F) and ambient air temperature of 40°C (104°F).*

*(2) Ampacities are in accordance with table 310.60(C)(77) of the NEC for three single-insulated copper conductors in underground electrical ducts (three conductors per electrical duct) based on ambient earth temperature of 20°C (68°F) electrical duct arrangement in accordance with figure 31060 detail 1 100 percent load factor thermal resistance (rho) of 90 conductor temperatures of 105°C (221°F).*

*Jam ratio has not been considered and should be checked to avoid possible jamming.*

*Values are nominal and subject to manufacturing tolerances.*