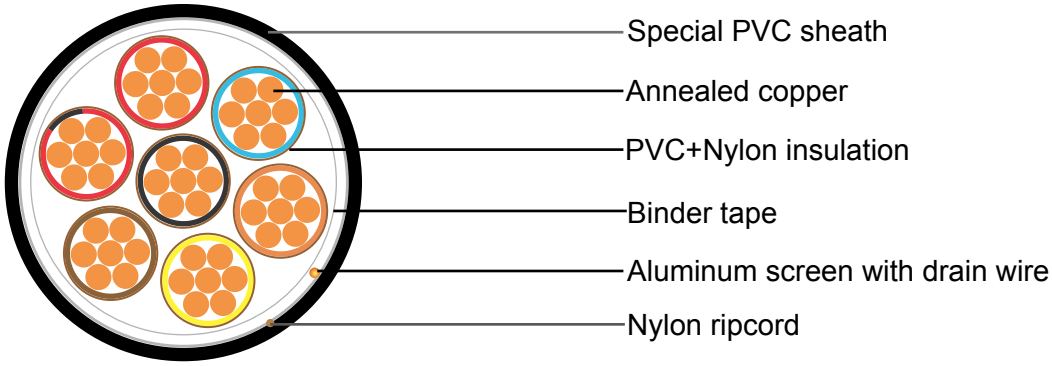
## Screened THHN/THWN-2 Cable




Screened THHN/THWN-2 Cable

### Applications

These cables are use in class 1, Division 2 Hazardous locations, may be installed in trays, wire ways, ducts, conduit and aerially when properly supported by a messenger. They are approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required.

### Standards

ICEA S-73-532; UL 1277; UL 83

### Construction

Conductor: Bare, annealed copper conforming to ASTM B3 and B8

Insulation: Flame-retardant PVC/Nylon type THHN/THWN-2 per UL 83

Color coded per Method #1-E2 per ICEA S-73-532

Binder tape

Screen: Aluminum tape

Drain Wire: 16 AWG (7w) tinned copper

Ripcord: Nylon

Jacket: Special PVC, flame retardant, UL listed sunlight and moisture resistant, meeting the requirements of UL 1277. Color: Black

Chemical resistance: Aliphatic and aromatic hydrocarbon resistance

10 AWG, 600V, Rated 90°C

| No. of Cores | PVC Thickness | Nylon Thickness | Jacket Thickness | Nom. O.D. | Approx. Weight | Ampacity |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | kg/km | amps |
| 2 | 0.51 | 0.10 | 1.14 | 10.87 | 189 | 40 |
| 3 | 0.51 | 0.10 | 1.14 | 11.52 | 251 | 40 |
| 4 | 0.51 | 0.10 | 1.14 | 12.61 | 290 | 32/40 |
| 5 | 0.51 | 0.10 | 1.52 | 14.57 | 414 | 32 |
| 6 | 0.51 | 0.10 | 1.52 | 15.82 | 479 | 32 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 | 0.51 | 0.10 | 1.52 | 15.82 | 540 | 28 |
| 8 | 0.51 | 0.10 | 1.52 | 17.35 | 609 | 28 |
| 9 | 0.51 | 0.10 | 1.52 | 18.69 | 679 | 28 |
| 10 | 0.51 | 0.10 | 1.52 | 19.95 | 748 | 20 |
| 11 | 0.51 | 0.10 | 1.52 | 20.24 | 811 | 20 |
| 12 | 0.51 | 0.10 | 2.03 | 21.89 | 930 | 20 |
| 13 | 0.51 | 0.10 | 2.03 | 22.27 | 984 | 20 |
| 14 | 0.51 | 0.10 | 2.03 | 22.98 | 1116 | 20 |
| 15 | 0.51 | 0.10 | 2.03 | 23.56 | 1173 | 20 |
| 16 | 0.51 | 0.10 | 2.03 | 24.19 | 1262 | 20 |
| 19 | 0.51 | 0.10 | 2.03 | 25.45 | 1376 | 20 |
| 20 | 0.51 | 0.10 | 2.03 | 26.21 | 1443 | 20 |
| 25 | 0.51 | 0.10 | 2.03 | 29.35 | 1771 | 18 |
| 30 | 0.51 | 0.10 | 2.03 | 31.36 | 2098 | 18 |
| 37 | 0.51 | 0.10 | 2.03 | 33.83 | 2544 | 16 |
| 40 | 0.51 | 0.10 | 2.03 | 35.13 | 2738 | 16 |
| 45 | 0.51 | 0.10 | 2.03 | 37.23 | 3056 | 14 |
| 50 | 0.51 | 0.10 | 2.03 | 38.65 | 3378 | 14 |

12 AWG, 600V, Rated 90°C

| No. of Cores | PVC Thickness | Nylon Thickness | Jacket Thickness | Nom. O.D. | Approx. Weight | Ampacity |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | kg/km | amps |
| 2 | 0.38 | 0.10 | 1.14 | 9.35 | 132 | 30.0 |
| 3 | 0.38 | 0.10 | 1.14 | 9.87 | 174 | 30.0 |
| 4 | 0.38 | 0.10 | 1.14 | 10.74 | 219 | 24.0/30.0 |
| 5 | 0.38 | 0.10 | 1.14 | 11.69 | 272 | 24.0 |
| 6 | 0.38 | 0.10 | 1.14 | 12.70 | 310 | 24.0 |
| 7 | 0.38 | 0.10 | 1.14 | 12.70 | 338 | 21.0 |
| 8 | 0.38 | 0.10 | 1.52 | 14.53 | 394 | 21.0 |
| 9 | 0.38 | 0.10 | 1.52 | 15.60 | 470 | 21.0 |
| 10 | 0.38 | 0.10 | 1.52 | 16.61 | 513 | 15.0 |
| 11 | 0.38 | 0.10 | 1.52 | 16.84 | 549 | 15.0 |
| 12 | 0.38 | 0.10 | 1.52 | 17.34 | 595 | 15.0 |
| 13 | 0.38 | 0.10 | 1.52 | 17.64 | 634 | 15.0 |
| 14 | 0.38 | 0.10 | 1.52 | 18.21 | 677 | 15.0 |
| 15 | 0.38 | 0.10 | 1.52 | 18.68 | 717 | 15.0 |
| 16 | 0.38 | 0.10 | 1.52 | 19.19 | 747 | 15.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 19 | 0.38 | 0.10 | 1.52 | 20.19 | 870 | 15.0 |
| 20 | 0.38 | 0.10 | 1.52 | 20.80 | 933 | 15.0 |
| 25 | 0.38 | 0.10 | 2.03 | 24.33 | 1176 | 13.5 |
| 30 | 0.38 | 0.10 | 2.03 | 25.94 | 1379 | 13.5 |
| 37 | 0.38 | 0.10 | 2.03 | 27.91 | 1665 | 12.0 |
| 40 | 0.38 | 0.10 | 2.03 | 28.95 | 1827 | 12.0 |
| 45 | 0.38 | 0.10 | 2.03 | 30.63 | 2039 | 10.5 |
| 50 | 0.38 | 0.10 | 2.03 | 31.77 | 2245 | 10.5 |

14 AWG, 600V, Rated 90°C

| No. of Cores | PVC Thickness | Nylon Thickness | Jacket Thickness | Nom. O.D. | Approx. Weight | Ampacity |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | kg/km | amps |
| 2 | 0.38 | 0.10 | 1.14 | 8.23 | 103 | 25.0 |
| 3 | 0.38 | 0.10 | 1.14 | 8.67 | 129 | 25.0 |
| 3 | 0.38 | 0.10 | 1.14 | 8.67 | 129 | 25.0 |
| 4 | 0.38 | 0.10 | 1.14 | 9.42 | 159 | 20.0/25.0 |
| 5 | 0.38 | 0.10 | 1.14 | 10.24 | 190 | 20.0 |
| 6 | 0.38 | 0.10 | 1.14 | 11.10 | 220 | 20.0 |
| 7 | 0.38 | 0.10 | 1.14 | 11.10 | 243 | 17.5 |
| 8 | 0.38 | 0.10 | 1.14 | 12.14 | 277 | 17.5 |
| 9 | 0.38 | 0.10 | 1.52 | 13.06 | 307 | 17.5 |
| 10 | 0.38 | 0.10 | 1.52 | 14.68 | 362 | 12.5 |
| 11 | 0.38 | 0.10 | 1.52 | 14.88 | 388 | 12.5 |
| 12 | 0.38 | 0.10 | 1.52 | 15.31 | 421 | 12.5 |
| 13 | 0.38 | 0.10 | 1.52 | 15.57 | 443 | 12.5 |
| 14 | 0.38 | 0.10 | 1.52 | 16.06 | 473 | 12.5 |
| 15 | 0.38 | 0.10 | 1.52 | 16.46 | 501 | 12.5 |
| 16 | 0.38 | 0.10 | 1.52 | 16.89 | 533 | 12.5 |
| 19 | 0.38 | 0.10 | 1.52 | 17.75 | 615 | 12.5 |
| 20 | 0.38 | 0.10 | 1.52 | 18.27 | 643 | 12.5 |
| 25 | 0.38 | 0.10 | 1.52 | 20.42 | 787 | 11.3 |
| 30 | 0.38 | 0.10 | 2.03 | 22.82 | 972 | 11.3 |
| 37 | 0.38 | 0.10 | 2.03 | 24.51 | 1174 | 10.0 |
| 40 | 0.38 | 0.10 | 2.03 | 25.40 | 1262 | 10.0 |
| 45 | 0.38 | 0.10 | 2.03 | 26.84 | 1403 | 8.8 |
| 50 | 0.38 | 0.10 | 2.03 | 27.81 | 1537 | 8.8 |