



JIS C 3401 Cables

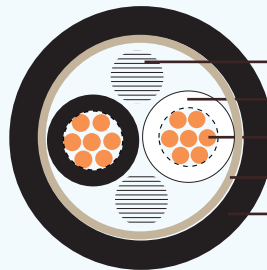
CVV

Application and Description:

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches.

Name Code:

C: For control
V: Vinyl
V: Vinyl



Non-hygroscopic material filler
Vinyl insulation
Annealed copper conductor
Polyester (Mylar) tape
Vinyl sheath

Cable Construction:

Conductor: Circular or compacted circular stranded annealed copper wires

Separator: A proper separator may be applied to a conductor

Insulation: Vinyl

Color :

2 cores- Black and white

3 cores- Black, white and red

4 cores- Black, white, red and green

More than 4 cores: Black core with marking numbers

Filler: Non-hygroscopic material(optional)

Binding tape: Polyester (Mylar) tape (optional)

Sheath: Vinyl, Black color

Technical Characteristics:

Maximum conductor temperature 90°C

Circuit voltage not exceeding 600 volts

Test voltage 2000 volts





Cable Parameter

| No. of cores | Nominal sectional area | No. of wire | Diameter of Conductor (approx.) | Thickness of insulation | Thickness of sheath | Overall diameter (approx.) | Maximum DC. resistance of Cdr. at 20°C | Cable weight (approx.) |
|--------------|------------------------|-------------|---------------------------------|-------------------------|---------------------|----------------------------|--|------------------------|
| | mm ² | | mm | mm | mm | mm | Ohm / km | kg / km |
| 2 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 9.4 | 16.8 | 100 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 10.5 | 9.42 | 130 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 11.5 | 5.3 | 175 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 13.5 | 3.4 | 245 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.5 | 15.5 | 2.36 | 335 |
| | 8 | compacted | 3.4 | 1.2 | 1.5 | | 2.34 | 325 |
| | 14 | 7/1.6 | 4.8 | 1.4 | 1.5 | 19 | 1.33 | 520 |
| | 14 | compacted | 4.4 | 1.4 | 1.5 | 18 | 1.34 | 500 |
| | 22 | 7/2.0 | 6 | 1.6 | 1.6 | 23 | 0.84 | 760 |
| | 22 | compacted | 5.5 | 1.6 | 1.5 | 21 | 0.849 | 715 |
| 3 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 9.9 | 16.8 | 120 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 11 | 9.42 | 160 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 12.5 | 5.3 | 220 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 14.5 | 3.4 | 320 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.5 | 16.5 | 2.36 | 440 |
| | 8 | compacted | 3.4 | 1.2 | 1.5 | 16 | 2.34 | 425 |
| | 14 | 7/1.6 | 4.8 | 1.4 | 1.5 | 20 | 1.33 | 690 |
| | 14 | compacted | 4.4 | 1.4 | 1.5 | 19 | 1.34 | 665 |
| | 22 | 7/2.0 | 6 | 1.6 | 1.6 | 24 | 0.84 | 1020 |
| | 22 | compacted | 5.5 | 1.6 | 1.6 | 23 | 0.849 | 975 |
| 4 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 11 | 16.8 | 145 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 12 | 9.42 | 195 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 13.5 | 5.3 | 275 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 16 | 3.4 | 400 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.5 | 18 | 2.36 | 555 |
| | 8 | compacted | 3.4 | 1.2 | 1.5 | 17.5 | 2.34 | 535 |
| | 14 | 7/1.6 | 4.8 | 1.4 | 1.6 | 22 | 1.33 | 890 |
| | 14 | compacted | 4.4 | 1.4 | 1.5 | 21 | 1.34 | 855 |
| | 22 | 7/2.0 | 6 | 1.6 | 1.7 | 27 | 0.84 | 1320 |
| | 22 | compacted | 5.5 | 1.6 | 1.7 | 25 | 0.849 | 1260 |





| No. of cores | Nominal sectional area | No. of wire | Diameter of Conductor (approx.) | Thickness of insulation | Thickness of sheath | Overall diameter (approx.) | Maximum DC. resistance of Cdr. at 20°C | Cable weight (approx.) |
|--------------|------------------------|-------------|---------------------------------|-------------------------|---------------------|----------------------------|--|------------------------|
| | mm ² | | mm | mm | mm | mm | Ohm / km | kg / km |
| 5 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 11.5 | 16.8 | 170 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 13 | 9.42 | 230 |
| | 3.5 | 7/1.0.8 | 2.4 | 0.8 | 1.5 | 14.5 | 5.3 | 330 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 17 | 3.4 | 485 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.5 | 20 | 2.36 | 675 |
| | 8 | compacted | 3.4 | 1.2 | 1.5 | 19.5 | 2.34 | 655 |
| | 14 | 7/1.6 | 4.8 | 1.4 | 1.6 | 25 | 1.33 | 1090 |
| | 14 | compacted | 4.4 | 1.4 | 1.6 | 24 | 1.34 | 1060 |
| 6 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 12.5 | 16.8 | 200 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 14 | 9.42 | 270 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 15.5 | 5.3 | 390 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 18.5 | 3.4 | 570 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.5 | 22 | 2.36 | 800 |
| | 8 | compacted | 3.4 | 1.2 | 1.5 | 21 | 2.34 | 775 |
| | 14 | 7/1.6 | 4.8 | 1.4 | 1.7 | 27 | 1.33 | 1310 |
| | 14 | compacted | 4.4 | 1.4 | 1.7 | 26 | 1.34 | 1270 |
| 7 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 12.5 | 16.8 | 215 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 14 | 9.42 | 295 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 15.5 | 5.3 | 425 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 18.5 | 3.4 | 630 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.5 | 22 | 2.36 | 885 |
| | 8 | compacted | 3.4 | 1.2 | 1.5 | 21 | 2.34 | 860 |
| 8 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 13.5 | 16.8 | 240 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 15 | 9.42 | 335 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 17 | 5.3 | 485 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.5 | 20 | 3.4 | 720 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.6 | 24 | 2.36 | 1030 |
| | 8 | compacted | 3.4 | 1.2 | 1.6 | 23 | 2.34 | 995 |





| No. of cores | Nominal sectional area | No. of wire | Diameter of Conductor (approx.) | Thickness of insulation | Thickness of sheath | Overall diameter (approx.) | Maximum DC. resistance of Cdr. at 20°C | Cable weight (approx.) |
|--------------|------------------------|-------------|---------------------------------|-------------------------|---------------------|----------------------------|--|------------------------|
| | mm ² | | mm | mm | mm | mm | Ohm / km | kg / km |
| 10 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 15.5 | 16.8 | 305 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 17.5 | 9.42 | 425 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 19.5 | 5.3 | 620 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.6 | 24 | 3.4 | 930 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.8 | 29 | 2.36 | 1340 |
| | 8 | compacted | 3.4 | 1.2 | 1.7 | 28 | 2.34 | 1290 |
| 12 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 16 | 16.8 | 345 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 18 | 9.42 | 480 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 21 | 5.3 | 705 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.7 | 25 | 3.4 | 1080 |
| | 8 | 7/1.2 | 3.6 | 1.2 | 1.8 | 29 | 2.36 | 1540 |
| | 8 | compacted | 3.4 | 1.2 | 1.8 | | 2.34 | 1490 |
| 15 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 17 | 16.8 | 405 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 19 | 9.42 | 575 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.5 | 22 | 5.3 | 855 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.7 | 27 | 3.4 | 1310 |
| 20 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.5 | 19 | 16.8 | 515 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.5 | 22 | 9.42 | 735 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.6 | 25 | 5.3 | 1120 |
| | 5.5 | 7/1.0 | 3 | 1 | 1.9 | 31 | 3.4 | 1720 |
| 30 | 1.25 | 7/0.45 | 1.35 | 0.8 | 1.6 | 23 | 16.8 | 750 |
| | 2 | 7/0.6 | 1.8 | 0.8 | 1.7 | 26 | 9.42 | 1100 |
| | 3.5 | 7/0.8 | 2.4 | 0.8 | 1.8 | 30 | 5.3 | 1660 |

