



AC90 & ISO-AC90 600V CSA FT4-ST1 LSZH

| AC90 | Part No. | Power Conductor | | Ground Conductor | Insulation Thickness | | Armour O.D. | | Cable Weight | | Max Pulling Tension | | Min Bend Radius | | Ampacity |
|---------|----------|-----------------|-----|------------------|----------------------|-------|-------------|-----|--------------|-------|---------------------|------|-----------------|-----|----------|
| | | Count | AWG | AWG | in | mm | in | mm | lbs/Mft | kg/km | lbs | kg | in | mm | A |
| 8021451 | 2 | 14 | 14 | 0.030 | 0.76 | 0.430 | 10.9 | 81 | 120 | 66 | 30 | 6.0 | 151 | 25 | |
| 8021251 | 2 | 12 | 14 | 0.030 | 0.76 | 0.454 | 11.5 | 99 | 148 | 104 | 47 | 6.4 | 164 | 30 | |
| 8021051 | 2 | 10 | 12 | 0.030 | 0.76 | 0.512 | 13.0 | 138 | 206 | 166 | 75 | 6.9 | 174 | 40 | |
| 8021403 | 3 | 14 | 14 | 0.030 | 0.76 | 0.445 | 11.3 | 105 | 156 | 99 | 45 | 6.2 | 158 | 25 | |
| 8021203 | 3 | 12 | 14 | 0.030 | 0.76 | 0.490 | 12.4 | 130 | 193 | 157 | 71 | 6.9 | 174 | 30 | |
| 8021003 | 3 | 10 | 12 | 0.030 | 0.76 | 0.535 | 13.6 | 182 | 271 | 249 | 113 | 7.5 | 190 | 40 | |
| 8030803 | 3 | 8/7 | 10 | 0.045 | 1.14 | 0.714 | 18.1 | 309 | 460 | 418 | 190 | 10.0 | 254 | 55 | |
| 8030603 | 3 | 6/7 | 8/7 | 0.045 | 1.14 | 0.770 | 19.6 | 417 | 621 | 702 | 318 | 10.8 | 274 | 75 | |
| 8030403 | 3 | 4/7 | 8/7 | 0.045 | 1.14 | 0.940 | 23.9 | 601 | 894 | 1193 | 541 | 13.2 | 334 | 95 | |
| 8030303 | 3 | 3/7 | 6/7 | 0.045 | 1.14 | 0.990 | 25.1 | 721 | 1073 | 1622 | 736 | 13.9 | 352 | 115 | |
| 8030203 | 3 | 2/7 | 6/7 | 0.045 | 1.14 | 1.040 | 26.4 | 891 | 1326 | 1922 | 872 | 14.6 | 370 | 130 | |
| 8021404 | 4 | 14 | 14 | 0.030 | 0.76 | 0.490 | 12.4 | 130 | 193 | 131 | 60 | 6.9 | 174 | 20 | |
| 8021204 | 4 | 12 | 14 | 0.030 | 0.76 | 0.535 | 13.6 | 166 | 247 | 209 | 95 | 7.5 | 190 | 24 | |
| 8021004 | 4 | 10 | 12 | 0.030 | 0.76 | 0.630 | 16.0 | 232 | 345 | 332 | 150 | 8.8 | 224 | 32 | |

| ISO-AC90 | Part No. | Conductor Count | Power Conductor | Ins. Ground Conductor | Ground Conductor | Insulation Thickness | | Armour O.D. | | Cable Weight | | Max Pulling Tension | | Min Bend Radius | | Ampacity |
|----------|----------|-----------------|-----------------|-----------------------|------------------|----------------------|-------|-------------|-----|--------------|-------|---------------------|-----|-----------------|----|----------|
| | | | AWG | AWG | AWG | in | mm | in | mm | lbs/Mft | kg/km | lbs | kg | in | mm | A |
| 8001402 | 2 | 14 | 14 | 14 | 0.030 | 0.76 | 0.440 | 11.2 | 105 | 156 | 66 | 30 | 6.2 | 157 | 25 | |
| 8001202 | 2 | 12 | 12 | 14 | 0.030 | 0.76 | 0.485 | 12.3 | 138 | 206 | 104 | 47 | 6.8 | 173 | 30 | |
| 8001002 | 2 | 10 | 10 | 12 | 0.030 | 0.76 | 0.533 | 13.5 | 186 | 277 | 166 | 75 | 7.5 | 190 | 40 | |
| 8001203 | 3 | 12 | 12 | 14 | 0.030 | 0.76 | 0.535 | 13.6 | 165 | 245 | 157 | 71 | 7.5 | 190 | 24 | |
| 8001003 | 3 | 10 | 10 | 12 | 0.030 | 0.76 | 0.591 | 15.0 | 232 | 346 | 249 | 113 | 8.3 | 210 | 32 | |

Ampacity values based on CE Code Part I 2024, Table 2. Correction factors may apply. Dimensions and weights are nominal and subject to change without notice.

Manufactured, tested and certified in Canada, Electro-Power®AC90 armored building wire is rated FT4-ST1 for -40°C to 90°C. Engineered specifically for demanding environments, superior flammability and smoke emission performance.

Specifications and Compliances

- CSA C22.2 No. 51, Armoured Cables (Type AC90)
- CSA C22.2 No. 38 Thermoset-insulated wires and cables (Type RW90)
- CSA C22.2 No. 2556 FT4-ST1/UL 1685 Vertical-Tray Flame Test
- IEEE 383 & 1202, ICEA T-30-520 (70,000 BTU/hr) Vertical Flame Test rated
- -40°C Cold Bend and -40°C Cold Impact
- Limited Smoke and Halogen Free

Conductor Solid Soft Copper, ASTM B3

8-2 AWG - Stranded Soft Copper, ASTM B8

Insulation Cross-linked Polyethylene (XLPE) CSA Type XL

90°C dry/wet 600V Halogen-Free

Bonding

Solid ASTM B3 or Stranded ASTM B8 Soft Bare Copper, ISO - Insulated Copper (Green)

Armour

Aluminum (AIA) or Galvanized Steel (SIA) Interlock Armour

Colour Code

Black, White, Red, Blue – Pairs are Black and Red

Applications

- For use in ventilated, non-ventilated and ladder-type cable trays.
- For dry locations, in ceiling air-handling plenums, exposed or concealed wiring and service entrance above ground.
- ISO-AC90 is also recommended for single-phase isolated wiring systems, refer to CE Code Part I 2024 Rules 24-102 and 24-104.

