

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standards UL-83, UL-758 (AWM Style 1015, 1232, 1283, 1284, 1337, 1338, 1339, 10070), UL-1063, UL-1581, UL-2556; ASTM B3; B172; B174; UL-1685 Method 2/FT4/IEEE1202 (70,000 Btu/hr) Vertical Flame Test (1/0 AWG and larger); Flame Test VW-1; NFPA 70 (NEC®); NFPA 79; NEMA WC70/ICEA S-95-658; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-156879; UL Listing #E-123774



CONSTRUCTION

Stranding

Class I (24 AWG copper)

Conductors

Stranded, uncoated bare copper per ASTM-B3, ASTM-B172 or ASTM-B174

Insulation

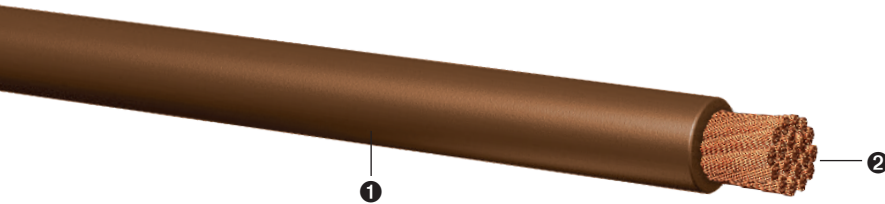
Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame retardant compound

APPLICATIONS

FLEXCORE is a highly-flexible conductor intended for applications utilized in raceways for services, feeders, and branch-circuit wiring as specified by the NEC. FLEXCORE may also be used in control cabinets, in machine tool applications, data centers, and as AWM in appliance wiring applications at temperatures -25°C to 105°C. For use in accordance with the National Electrical Code (NEC) and NFPA Standard 79, where applicable. Voltage rating for all applications is 600 volts.

FEATURES

FLEXCORE features our SuperSlick Elite coating that eliminates the need for lube. SuperSlick Elite is standard on all sizes. On 250 KCMIL and larger, sequential footage markings are located every foot for easy measuring. For 1 AWG through 4/0 AWG sequential foot markings located on master reels only unless otherwise specified. 6 AWG and larger Sunlight Resistant in all colors.



- ❶ PVC Insulation
- ❷ Stranded Copper Conductor

| Size (AWG) | No. of Strands | PVC Insulation Thickness (Conductor) | | Outside Diameter | | Approximate Net Weight (lbs/1000 ft) | Approximate Area (in²) | Allowable Ampacity (Amps) ¹ | | | Standard Packaging (ft) |
|------------|----------------|--------------------------------------|-------|------------------|-------|--------------------------------------|------------------------|--|------|------|-------------------------|
| | | (mm) | (in) | (mm) | (in) | | | 60°C | 75°C | 90°C | |
| 6 | 63 | 1.52 | 0.060 | 8.13 | 0.312 | 110.79 | 0.0804 | 55 | 65 | 75 | 1000' |
| 4 | 105 | 1.52 | 0.060 | 9.58 | 0.353 | 165.81 | 0.1116 | 70 | 85 | 95 | 1000' |
| 3 | 133 | 1.52 | 0.060 | 10.21 | 0.398 | 202.82 | 0.1269 | 85 | 100 | 115 | 1000' |
| 2 | 161 | 1.52 | 0.060 | 11.10 | 0.421 | 249.92 | 0.1500 | 95 | 115 | 130 | 1000' |
| 1 | 210 | 2.03 | 0.080 | 13.08 | 0.499 | 326.46 | 0.2083 | 110 | 130 | 145 | 1000' |
| 1/0 | 266 | 2.03 | 0.080 | 14.22 | 0.588 | 402.02 | 0.2463 | 125 | 150 | 170 | 1000' |
| 2/0 | 342 | 2.03 | 0.080 | 15.49 | 0.592 | 500.34 | 0.2922 | 145 | 175 | 195 | 1000' |
| 3/0 | 418 | 2.03 | 0.080 | 16.84 | 0.648 | 618.53 | 0.3452 | 165 | 200 | 225 | 1000' |
| 4/0 | 532 | 2.03 | 0.080 | 18.49 | 0.711 | 767.44 | 0.4162 | 195 | 230 | 260 | 1000' |
| 250 | 627 | 2.41 | 0.095 | 20.47 | 0.794 | 918.04 | 0.5102 | 215 | 255 | 290 | 1000' |
| 300 | 740 | 2.41 | 0.095 | 21.89 | 0.859 | 1,086.92 | 0.5836 | 240 | 285 | 320 | 1000' |
| 350 | 851 | 2.41 | 0.095 | 23.16 | 0.862 | 1,235.07 | 0.6533 | 260 | 310 | 350 | 1000' |
| 400 | 999 | 2.41 | 0.095 | 24.56 | 0.959 | 1,423.50 | 0.7344 | 280 | 335 | 380 | 1000' |
| 500 | 1,221 | 2.41 | 0.095 | 26.82 | 1.045 | 1,757.33 | 0.8758 | 320 | 380 | 430 | 1000' |
| 600 | 1,480 | 2.79 | 0.110 | 29.77 | 1.172 | 2,121.86 | 1.0788 | 350 | 420 | 475 | 1000' |
| 750 | 1,850 | 2.79 | 0.110 | 32.82 | 1.292 | 2,623.55 | 1.3110 | 400 | 475 | 535 | 1000' |

¹ Ampacity of conductors are based on NFPA 70 (NEC) Table 310.16. See 110.14(C), 240.4(D) and 310.15(B) and (C) for other limitations where applicable. The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND:

6 AWG THROUGH 1 AWG: ENCORE*WIRE*CORP*(SIZE)*TYPE*MTW*OR*THW-2*GR-1*SUN-RES*VW-1*FT4*IEEE1202*600V*FOR*CT*USE*(UL)*OR*AWM*DATE*TIME*OPERATOR*QC*MACHINE **FLEXCORE SUPERSLICK ELITE™**

1/0 AWG THROUGH 750 KCMIL: ENCORE*WIRE*CORP*(SIZE)*TYPE*MTW*OR*THW-2*GR-1*SUN-RES*VW-1*FT4*IEEE1202*600V*FOR*CT*USE*(UL)*AWM*DATE*TIME*OPERATOR*QC*MACHINE **FLEXCORE SUPERSLICK ELITE™**

[EACH *INDICATES THE NUMBER OF SPACES BETWEEN CHARACTERS]