



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB Type SOOW, EPDM rubber insulated heat, moisture and oil resistant flexible CPE jacket cable is designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights welding leads, marine dockside power, power extension and mining applications.

CHARACTERISTICS

Voltage Rating
600 V

Operation Temperature
-40°C to 90°C

CONSTRUCTION

- Annealed plain copper conductor, Class K as per ASTM B3 and ASTM B 172
- Insulated with insulation cl. 3 moisture and oil resistant EPDM as per UL 62
- Jacketed with jacket cl. 1.4 Heat, moisture, and oil resistant CPE to UL 62

Core Identification

| Number of conductors | Core Colour |
|----------------------|----------------------------------|
| 2 | Black, White |
| 3 | Black, White, Green |
| 4 | Black, White, Red, Green |
| 5 | Black, White, Red, Green, Orange |

Bending Radii

Fixed Installation 5 x Overall Diameter
Occasional 4 x Overall Diameter

A-C Spark Test

18 -15 AWG 6 kV
14 -10 AWG 7.5 kV

OUTSTANDING FEATURES

- Heat resistant
- Oil resistant
- Moisture resistant

STANDARD FOLLOWS

UL 62
ASTM B3
ASTM B172
UL 2556
NEC 400.5(A)

COMPLIANCE

| | |
|---------------------------------|-------|
| Conductor resistance test | UL 62 |
| Insulation resistance | UL 62 |
| Cold bend test | UL62 |
| Flame test | UL 62 |
| Weather resistance | UL 62 |
| Permittivity & stability factor | UL 62 |
| Jacket resistance test | UL 62 |
| Oil resistance test | UL 62 |

OUR ACCREDITATIONS



Dimensional Characteristics:

| No. of core | Conductor size | No. of Strand | Insulation thickness | Insulation thickness | Nominal Overall Diameter | Nominal Overall Diameter | Approximate weight | Approximate weight |
|-------------|----------------|---------------|----------------------|----------------------|--------------------------|--------------------------|--------------------|--------------------|
| | AWG | | inches | mm | inches | mm | Lbs/Mft | Kg/km |
| 2 | 18 | 16/30 | 0.030 | 0.76 | 0.334 | 8.47 | 67 | 100 |
| 3 | 18 | 16/30 | 0.030 | 0.76 | 0.351 | 8.9 | 77 | 115 |
| 4 | 18 | 16/30 | 0.030 | 0.76 | 0.378 | 9.6 | 91 | 135 |
| 5 | 18 | 16/30 | 0.030 | 0.76 | 0.448 | 11.37 | 123 | 183 |
| 2 | 16 | 26/30 | 0.030 | 0.76 | 0.360 | 9.14 | 82 | 122 |
| 3 | 16 | 26/30 | 0.030 | 0.76 | 0.379 | 9.62 | 96 | 143 |
| 4 | 16 | 26/30 | 0.030 | 0.76 | 0.410 | 10.4 | 115 | 170 |
| 5 | 16 | 26/30 | 0.030 | 0.76 | 0.483 | 12.26 | 154 | 229 |
| 2 | 14 | 41/30 | 0.045 | 1.14 | 0.490 | 12.44 | 142 | 212 |
| 3 | 14 | 41/30 | 0.045 | 1.14 | 0.516 | 13.1 | 167 | 248 |
| 4 | 14 | 41/30 | 0.045 | 1.14 | 0.558 | 14.17 | 199 | 296 |
| 5 | 14 | 41/30 | 0.045 | 1.14 | 0.634 | 16.09 | 254 | 378 |
| 2 | 12 | 65/30 | 0.045 | 1.14 | 0.528 | 13.4 | 171 | 255 |
| 3 | 12 | 65/30 | 0.045 | 1.14 | 0.557 | 14.14 | 205 | 305 |
| 4 | 12 | 65/30 | 0.045 | 1.14 | 0.604 | 15.34 | 248 | 369 |
| 5 | 12 | 65/30 | 0.045 | 1.14 | 0.685 | 17.39 | 315 | 469 |
| 2 | 10 | 104/30 | 0.045 | 1.14 | 0.606 | 15.39 | 233 | 347 |
| 3 | 10 | 104/30 | 0.045 | 1.14 | 0.639 | 16.23 | 282 | 419 |
| 4 | 10 | 104/30 | 0.045 | 1.14 | 0.693 | 17.59 | 342 | 509 |
| 5 | 10 | 104/30 | 0.045 | 1.14 | 0.751 | 19.06 | 407 | 606 |

Above values are approximate and subject to standard manufacturing tolerance

Electrical characteristics

| No. of core | Conductor size | *Allowable ampacity Amp. | Maximum DC resistance at 20°C |
|-------------|----------------|-----------------------------|-------------------------------|
| | AWG | Ampere | Ω/km |
| 2 | 18 | 10 | 22.4 |
| 3 | 18 | 10 | 22.4 |
| 4 | 18 | 7 | 22.4 |
| 5 | 18 | 5.6 | 22.4 |
| 2 | 16 | 13 | 14.1 |
| 3 | 16 | 13 | 14.1 |
| 4 | 16 | 10 | 14.1 |
| 5 | 16 | 8 | 14.1 |
| 2 | 14 | 18 | 8.88 |
| 3 | 14 | 18 | 8.88 |
| 4 | 14 | 15 | 8.88 |
| 5 | 14 | 12 | 8.88 |
| 2 | 12 | 25 | 5.58 |
| 3 | 12 | 25 | 5.58 |
| 4 | 12 | 20 | 5.58 |
| 5 | 12 | 16 | 5.58 |
| 2 | 10 | 30 | 3.51 |
| 3 | 10 | 30 | 3.51 |
| 4 | 10 | 25 | 3.51 |
| 5 | 10 | 20 | 3.51 |

*Ampacities are based on Table 400.5(A) of the 2014 National Electrical Code.