



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB Cu XHHW/XHHW-2, cable with solid or stranded copper conductor, cross linked Polyolefin insulation is intended to use in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial application as specified in National Electrical Code 2011. Type XHHW is suitable to use in dry location with ambient temperature not exceeding 90°C or in wet location not exceeding 75°C and Type XHHW-2 is suitable to use in wet or dry location with ambient temperature not exceeding 90°C, suitable to use in healthcare facilities.

CHARACTERISTICS

Voltage Rating

600 V

Operation Temperature

-40°C to 90°C

CONSTRUCTION

- AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Insulated with Heat and moisture resistant PVC compound to UL 83
- Jacketed with Nylon (polyamide) or UL listed similar jacket compound to UL 83

Core Identification

Available in Red, Black, White, Blue, Purple, Green, Yellow, Orange, Brown, and Grey.

Bending Radius

12 x Overall Diameter

A-C Spark Test

As per UL 83

OUTSTANDING FEATURES

- Heat resistant
- Oil resistant (PR II)
- Sunlight resistant
- Gasoline resistant
- Moisture resistant
- Flame retardant

STANDARD FOLLOWS

UL 83

UL 2556

ASTM B-801

COMPLIANCE

| | |
|---|------------|
| Conductor resistance test | ASTM B-801 |
| Insulation resistance | UL 83 |
| Cold bend test | UL 83 |
| Vertical flame test | UL 83 |
| Smoke emission | UL 83 |
| Fire propagation | UL 83 |
| Halogen acid gas emission | UL 83 |
| Oil resistant (PR II) | UL 83 |
| VW-1, FT1, FT2 | UL 83 |
| FT4 and CT Flame rated (for 1/0 AWG and above) | UL 1685 |
| NEC, NFPA 70, 2011 Edition | |
| RoHS and REACH Compliant | |

OUR ACCREDITATIONS



APPROVAL



NOTES

Other colours are available subject to economic order quantity.

Dimensional and Electrical characteristics:

| No. of core | Conductor size | Number of strands | Insulation thickness | Nominal overall diameter | Approximate weight | *Allowable ampacity Amp. | | | Maximum DC resistance at 20°C | |
|-------------|----------------|-------------------|----------------------|--------------------------|--------------------|--------------------------|------|------|-------------------------------|------|
| | | | | | | 60°C | 75°C | 90°C | | |
| | | | AWG or kcmil | mils | mils | Lbs/1000 ft | 60°C | 75°C | 90°C | Ω/km |
| 1 | 8 | 7 | 30 | 205 | 27 | 35 | 40 | 45 | 3.4464 | |
| 1 | 6 | 7 | 30 | 241 | 39 | 40 | 50 | 60 | 2.1684 | |
| 1 | 4 | 7 | 40 | 307 | 62 | 55 | 65 | 75 | 1.3633 | |
| 1 | 2 | 7 | 40 | 363 | 90 | 75 | 90 | 100 | 0.8573 | |
| 1 | 1 | 18 | 50 | 431 | 119 | 85 | 100 | 115 | 0.6798 | |
| 1 | 1/0 | 18 | 50 | 452 | 143 | 100 | 120 | 135 | 0.5387 | |
| 1 | 2/0 | 18 | 50 | 492 | 172 | 115 | 135 | 150 | 0.4275 | |
| 1 | 3/0 | 18 | 50 | 539 | 210 | 130 | 155 | 175 | 0.3389 | |
| 1 | 4/0 | 18 | 50 | 591 | 257 | 150 | 180 | 205 | 0.269 | |
| 1 | 250 | 22 | 60 | 660 | 312 | 170 | 205 | 230 | 0.2277 | |
| 1 | 300 | 35 | 60 | 705 | 364 | 195 | 230 | 260 | 0.1896 | |
| 1 | 350 | 35 | 60 | 751 | 418 | 210 | 250 | 280 | 0.1624 | |
| 1 | 400 | 35 | 60 | 795 | 472 | 225 | 270 | 305 | 0.1424 | |
| 1 | 500 | 35 | 60 | 870 | 572 | 260 | 310 | 350 | 0.1139 | |
| 1 | 600 | 58 | 70 | 981 | 699 | 285 | 340 | 385 | 0.0948 | |
| 1 | 700 | 58 | 70 | 1048 | 805 | 310 | 375 | 420 | 0.0814 | |
| 1 | 750 | 58 | 70 | 1080 | 858 | 320 | 385 | 435 | 0.0758 | |

*Allowable ampacities shown are for general use as specified by the National Electrical Code 2011 Edition Section 310.16 & 240.4(D).

60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

90°C – THHN dry location and THWN wet or dry location for ampacity adjustment purposes using NEC section 310.16