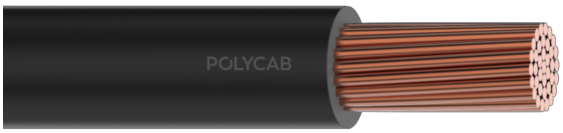
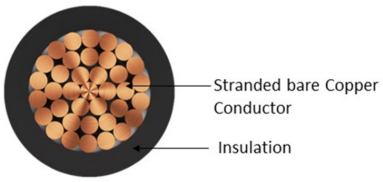
# POLYCAB COPPER XHHW/XHHW-2
## Industrial Cable, UL 44, 600 V AC




Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB 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**
Size smaller than 8 AWG – 600 V
Size 8 AWG and above – 1000 V

**Operation Temperature**
-40°C to 90°C

## CONSTRUCTION

- Solid Copper conductor or Stranded Copper conductor as per ASTM B-3, ASTM B-8
- Insulated with heat resistant, flame retardant, low smoke cross-linked Polyolefin to UL 44

**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 44

## OUTSTANDING FEATURES

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

## STANDARD FOLLOWS

UL 44
UL 2556
ASTM B3, ASTM B8
NEC, NFPA 70, 2011 Edition
NEMA WC 70 construction requirement

## COMPLIANCE

| | |
|---|---|
| Conductor resistance test | ASTM B8 |
| Insulation resistance | UL 44 |
| Cold bend test | UL 44 |
| Smoke emission | UL 44 |
| Halogen acid gas emission | UL 44 |
| Weather resistance | UL 44 |
| Oil resistance (PR II) | UL 44 |
| Gasoline & oil resistance | UL 44 |
| VW-1, FT1, FT2 | UL 44 |
| FT4 and CT Flame rated (for 1/0 AWG and above) | UL 1685 |

RoHS and REACH Compliant

## OUR ACCREDITATIONS

## APPROVAL

## NOTES

Other colours are available subject to economic order quantity.

# POLYCAB COPPER XHHW/XHHW-2
## Industrial Cable, UL 44, 600 V AC

POLYCAB
IDEAS. CONNECTED.

Dimensional and Electrical characteristics

| No. of core | Conductor size | Number of strands | Insulation thickness | Nominal Overall diameter | Approximate Weight | *Allowable ampacity | | Maximum DC resistance at 20°C |
|---|---|---|---|---|---|---|---|---|
| | | | | | | **75°C | **90°C | |
| | AWG or kcmil | | mils | mils | Lbs/1000 ft | Amp. | Amp. | Ω/km |
| 1 | 14 | 7 | 30 | 127 | 19 | 20 | 25 | 8.62 |
| 1 | 12 | 1 | 30 | 141 | 27 | 25 | 30 | 5.31 |
| 1 | 10 | 1 | 30 | 162 | 41 | 35 | 40 | 3.34 |
| 1 | 12 | 7 | 30 | 146 | 28 | 25 | 30 | 5.43 |
| 1 | 10 | 7 | 30 | 167 | 41 | 35 | 40 | 3.41 |
| 1 | 8 | 7 | 45 | 225 | 68 | 50 | 55 | 2.14 |
| 1 | 6 | 7 | 45 | 261 | 102 | 65 | 75 | 1.35 |
| 1 | 4 | 7 | 45 | 310 | 154 | 85 | 95 | 0.848 |
| 1 | 3 | 7 | 45 | 338 | 191 | 100 | 115 | 0.673 |
| 1 | 2 | 7 | 45 | 367 | 235 | 115 | 130 | 0.534 |
| 1 | 1 | 19 | 55 | 426 | 303 | 130 | 145 | 0.423 |
| 1 | 1/0 | 19 | 55 | 464 | 372 | 150 | 170 | 0.335 |
| 1 | 2/0 | 19 | 55 | 513 | 466 | 175 | 195 | 0.266 |
| 1 | 3/0 | 19 | 55 | 567 | 579 | 200 | 225 | 0.211 |
| 1 | 4/0 | 19 | 55 | 622 | 719 | 230 | 260 | 0.167 |
| 1 | 250 | 37 | 65 | 689 | 859 | 255 | 290 | 0.142 |
| 1 | 300 | 37 | 65 | 742 | 1022 | 285 | 320 | 0.118 |
| 1 | 350 | 37 | 65 | 797 | 1181 | 310 | 350 | 0.101 |
| 1 | 400 | 37 | 65 | 843 | 1341 | 335 | 380 | 0.0885 |
| 1 | 500 | 37 | 65 | 927 | 1659 | 380 | 430 | 0.0709 |
| 1 | 600 | 61 | 80 | 1035 | 2015 | 420 | 475 | 0.059 |
| 1 | 700 | 61 | 80 | 1114 | 2335 | 460 | 520 | 0.0506 |
| 1 | 750 | 61 | 80 | 1149 | 2502 | 475 | 535 | 0.0472 |
| 1 | 1000 | 61 | 80 | 1300 | 3290 | 545 | 615 | 0.0354 |

*Mentioned ampacity values are for general use as per the National Electrical Code 2011 Edition, Section 310.16 and 240.4(D).
These ampacities are of single insulated conductors in free air based on ambient air temperature of 30°C.
**75°C - For conductor size larger than 1 AWG when terminated to equipment for circuit rated over 100 amp.
**90°C - XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.16