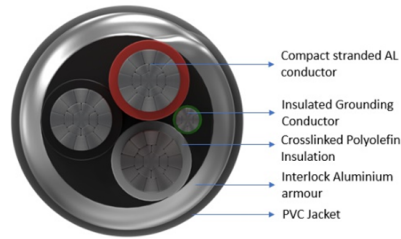
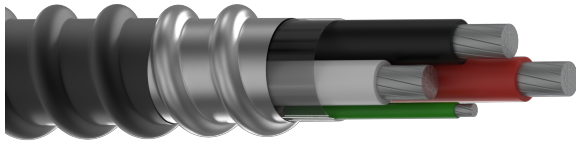


POLYCAB AL XHHW-2 TYPE MC ALUMINIUM ARMOUR PVC JACKETED CABLE

Industrial Cable, 600/1000 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB AL XHHW-2 Type MC Aluminium armour PVC jacketed cable is recommended to use in commercial, residential, industrial as well as non-patient care area of health care facilities (NEC 517.12) as power, control, signal and lighting cable. It is suitable to use in theatre, audience area of motion pictures, television studio and similar location (NEC 520.5) also it is allowable in assembly occupancies (NEC 518.4).

It can be used as branch circuits to swimming pool, hot tub and spa application as per NEC 680.14 and 330.12(2)(a) and (b); in Class I Div. 2, Class II Div. 2 and Class III Div. 1 hazardous locations. It is suitable to install in cable tray (NEC 392) and also in open air, raceway, channel, conduit and duct; permitted as aerial cable on a messenger (NEC 396.10(A)). It can be installed under raised floor for IT equipment (NEC 645.5 (E)). Further, it may be installed in direct burial or embedded in concrete (NEC 330.12(2)(a) or sunlight exposed area and also in wet (NEC 330.10(A)(11)) or dry location.

CHARACTERISTICS

Voltage Rating
600/1000 V

Operation Temperature
-25°C to 90°C

CONSTRUCTION

- Compact Stranded conductor Aluminium Alloy AA 8000 series as per ASTM B800, ASTM B801 & ASTM B836
- Accompanied with green insulated compact stranded Aluminium alloy AA 8000 series grounding conductor as per ASTM B800, ASTM B801 & ASTM B836.
- Insulated with a flame retardant Crosslinked Polyolefin type XHHW-2 as per UL 44.
- Binder tape rapped over the cores as per UL 1569
- Interlock Aluminium armour is applied over the assembly.
- Sunlight resistant, flame-retardant PVC jacket is applied over the complete assembly. Colour: Black

Core Identification

| No. | 120V/208V/240V |
|--------|----------------------|
| 2 | Black/White |
| 3 | Black/Red/White |
| 4 | Red/Black/White/Blue |
| Ground | Green |

| No | 277V/480V |
|--------|--------------------------|
| 2 | Brown/Gray |
| 3 | Brown/Orange/Gray |
| 4 | Brown/Orange/Yellow/Gray |
| Ground | Green |

OUTSTANDING FEATURES

- Heat resistant
- Sunlight resistant
- Flame retardant
- Moisture resistant

STANDARD FOLLOWS

ASTM B800
ASTM B801
ASTM B836
UL 44
UL 1569
UL 1685
NFPA 70 ARTICLE 330
NEMA RV-1
ANSI/NEMA WC 70/ICEA S-95-658-2021

COMPLIANCE

Conductor resistance test ASTM B801
Insulation resistance UL 44
Vertical tray flame test UL 1685
FT4 Test UL 1685, IEEE 1202
(For 1/0 AWG and above)
RoHS & REACH

OUR ACCREDITATIONS



NOTES

Also available with lightweight galvanised steel armour.

POLYCAB AL XHHW-2 TYPE MC ALUMINIUM ARMOUR PVC JACKETED CABLE



Industrial Cable, 600/1000 V AC

Dimensional Characteristics:

| No. of core | Conductor size | Insulation thickness | Ground wire size | Ground wire insulation | Nominal overall diameter | Approximate weight per 1000 ft |
|-------------|----------------|----------------------|------------------|------------------------|--------------------------|--------------------------------|
| | AWG or kcmil | mils | AWG | | inch | lbs |
| 3 | 6 | 45 | 6 | Green insulated | 0.902 | 352 |
| 4 | 6 | 45 | 6 | Green insulated | 0.974 | 415 |
| 3 | 4 | 45 | 6 | Green insulated | 1.009 | 435 |
| 4 | 4 | 45 | 6 | Green insulated | 1.075 | 515 |
| 3 | 3 | 45 | 6 | Green insulated | 1.028 | 477 |
| 4 | 3 | 45 | 6 | Green insulated | 1.126 | 578 |
| 3 | 2 | 45 | 4 | Green insulated | 1.099 | 561 |
| 4 | 2 | 45 | 4 | Green insulated | 1.207 | 680 |
| 3 | 1 | 55 | 4 | Green insulated | 1.217 | 674 |
| 4 | 1 | 55 | 4 | Green insulated | 1.340 | 825 |
| 3 | 1/0 | 55 | 4 | Green insulated | 1.280 | 765 |
| 4 | 1/0 | 55 | 4 | Green insulated | 1.409 | 942 |
| 3 | 2/0 | 55 | 4 | Green insulated | 1.356 | 871 |
| 4 | 2/0 | 55 | 4 | Green insulated | 1.497 | 1081 |
| 3 | 3/0 | 55 | 4 | Green insulated | 1.444 | 1014 |
| 4 | 3/0 | 55 | 4 | Green insulated | 1.624 | 1300 |
| 3 | 4/0 | 55 | 2 | Green insulated | 1.570 | 1219 |
| 4 | 4/0 | 55 | 2 | Green insulated | 1.760 | 1559 |
| 3 | 250 | 65 | 2 | Green insulated | 1.713 | 1453 |
| 3 | 250 | 65 | 1 | Green insulated | 1.739 | 1488 |
| 4 | 250 | 65 | 1 | Green insulated | 1.934 | 1861 |
| 3 | 300 | 65 | 1 | Green insulated | 1.836 | 1670 |
| 4 | 300 | 65 | 1 | Green insulated | 2.047 | 2099 |

POLYCAB AL XHHW-2 TYPE MC ALUMINIUM ARMOUR PVC JACKETED CABLE



Industrial Cable, 600/1000 V AC

| No. of core | Conductor size | Insulation thickness | Ground wire size | Ground wire insulation | Nominal overall diameter | Approximate weight per 1000 ft |
|-------------|----------------|----------------------|------------------|------------------------|--------------------------|--------------------------------|
| | AWG or kcmil | mils | AWG | | inch | lbs |
| 3 | 350 | 65 | 1 | Green insulated | 1.938 | 1855 |
| 4 | 350 | 65 | 1/0 | Green insulated | 2.162 | 2365 |
| 4 | 350 | 65 | 4/0 | Green insulated | 2.229 | 2501 |
| 3 | 400 | 65 | 1 | Green insulated | 2.024 | 2046 |
| 4 | 400 | 65 | 1/0 | Green insulated | 2.269 | 2617 |
| 4 | 400 | 65 | 3/0 | Green insulated | 2.301 | 2695 |
| 3 | 500 | 65 | 1 | Green insulated | 2.167 | 2397 |
| 3 | 500 | 65 | 2/0 | Green insulated | 2.193 | 2458 |
| 3 | 500 | 65 | 3/0 | Green insulated | 2.227 | 2508 |
| 3 | 500 | 65 | 250 | Green insulated | 2.271 | 2625 |
| 4 | 500 | 65 | 2/0 | Green insulated | 2.491 | 3191 |
| 4 | 500 | 65 | 3/0 | Green insulated | 2.500 | 3234 |
| 4 | 500 | 65 | 250 | Green insulated | 2.552 | 3355 |
| 3 | 600 | 80 | 1/0 | Green insulated | 2.428 | 2961 |
| 3 | 600 | 80 | 4/0 | Green insulated | 2.477 | 3094 |
| 3 | 600 | 80 | 350 | Green insulated | 2.555 | 3187 |
| 3 | 600 | 80 | 400 | Green insulated | 2.564 | 3337 |
| 4 | 600 | 80 | 3/0 | Green insulated | 2.749 | 3846 |
| 3 | 750 | 80 | 1/0 | Green insulated | 2.633 | 3499 |
| 3 | 750 | 80 | 3/0 | Green insulated | 2.655 | 3575 |
| 4 | 750 | 80 | 3/0 | Green insulated | 2.964 | 4545 |
| 4 | 750 | 80 | 750 | Green insulated | 3.231 | 5351 |

#Above values are approximate and subject to standard manufacturing tolerance

POLYCAB AL XHHW-2 TYPE MC ALUMINIUM ARMOUR PVC JACKETED CABLE



Industrial Cable, 600/1000 V AC

Electrical characteristics

| Conductor Size | *Allowable ampacity (Amp.) | | | Maximum DC resistance at 20°C |
|----------------|----------------------------|------|------|-------------------------------|
| | 60°C | 75°C | 90°C | |
| AWG | | | | Ω/km |
| 6 | 40 | 50 | 55 | 2.21 |
| 4 | 55 | 65 | 75 | 1.39 |
| 3 | 65 | 75 | 85 | 1.10 |
| 2 | 75 | 90 | 100 | 0.875 |
| 1 | 85 | 100 | 115 | 0.693 |
| 1/0 | 100 | 120 | 135 | 0.550 |
| 2/0 | 115 | 135 | 150 | 0.436 |
| 3/0 | 130 | 155 | 175 | 0.346 |
| 4/0 | 150 | 180 | 205 | 0.274 |
| 250 | 170 | 205 | 230 | 0.232 |
| 300 | 195 | 230 | 260 | 0.194 |
| 350 | 210 | 250 | 280 | 0.166 |
| 400 | 225 | 270 | 305 | 0.145 |
| 500 | 260 | 310 | 350 | 0.116 |
| 600 | 285 | 340 | 385 | 0.0967 |
| 700 | 315 | 375 | 425 | 0.0829 |
| 750 | 320 | 385 | 435 | 0.0774 |

*Allowable ampacities shown are for general use as specified by the NEC 2011 Edition Section 310.16.

60°C – Relevant for TW and UF Aluminium wires

75°C – Relevant for RHW, THHW, THW, THWN, XHHW, XHWN & USE Aluminium wires

90°C – Relevant for TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, XHWN-2 and XHHN Aluminium wires

Notes:

Section 310.15(B) shall be referenced for ampacity correction factors where the ambient temperature is other than 30°C (86°F).

Section 310.15(C)(1) shall be referenced for more than three current-carrying conductors.

Section 310.16 shall be referenced for conditions of use.