

Type XHHW-2 XLPE Insulated Wire



Applications

XHHW-2 is a single-conductor building wire, widely specified for its superior durability and safety in power, lighting, and general-purpose wiring applications. This versatile wire is primarily intended for installation in conduits, ducts, and other approved raceways for services, feeders, and branch circuits in commercial and industrial settings, and is also rated for the demanding conditions of direct burial.

Type XHHW-2 cable is NEC-compliant for continuous operations at 90° C in wet and dry locations, 130° C for emergency overload conditions and 250° C for short circuit conditions.

Specifications and Ratings

- UL Type XHHW-2
- The insulation is suitable for use in wet or dry locations at a temperature not exceeding 90° C
- -40° C rated
- RoHS compliant

Optional constructions include:

- CT USE (#1/0 AWG and larger)
- Sunlight resistant
- Oil & gas resistant II

Design Parameters

CONDUCTORS: Class B, soft drawn, bare copper per ASTM B3 and ASTM B8. Both tinned copper conductors and extra-flexible conductors are available as options.

INSULATION: Heat and moisture resistant cross-linked polyethylene (XLPE) meeting the requirements of ICEA S-95-658 (NEMA WC 40), UL 44 for Type XHHW-2 and wires. The insulation is suitable for use in wet or dry locations at a conductor temperature not exceeding 90° C for normal operation.

ASSEMBLY: Single conductor cables can be paralleled or multiplexed for more efficient installations. Single conductor cables can also be pre-installed in conduit.

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| Conductor Size AWG (mm ²) | Strand Class | Strands | Nominal Insulation Thickness in (mm) | Insulation Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|--|--------------|---------|---|---------------------------------|-------------------------------|---|
| 14 AWG (2.08) | Class B | 7 | .030 (0.72) | 0.140 (3.6) | 18 (27) | 92 (137) |
| 12 AWG (3.31) | Class B | 7 | .030 (0.72) | 0.160 (4.1) | 26 (39) | 92 (137) |
| 10 AWG (5.26) | Class B | 7 | .030 (0.72) | 0.180 (4.6) | 40 (60) | 92 (137) |
| 8 AWG (8.37) | Class B | 7 | .045 (1.1) | 0.250 (6.3) | 66 (98) | 92 (137) |
| 6 AWG (13.3) | Class B | 7 | .045 (1.1) | 0.280 (7.1) | 99 (147) | 92 (137) |
| 4 AWG (21.2) | Class B | 7 | .045 (1.1) | 0.330 (8.4) | 152 (226) | 92 (137) |
| 2 AWG (33.6) | Class B | 7 | .045 (1.1) | 0.390 (9.9) | 234 (348) | 234 (348) |
| 1/0 AWG (53.5) | Class B | 19 | .055 (1.4) | 0.490 (12.4) | 368 (548) | 92 (137) |
| 2/0 AWG (67.4) | Class B | 19 | .055 (1.4) | 0.530 (13.5) | 472 (702) | 92 (137) |
| 4/0 AWG (107) | Class B | 19 | .055 (1.4) | 0.640 (16.3) | 716 (1065) | 129 (192) |
| 250 KCMIL (127) | Class B | 37 | .065 (1.7) | 0.710 (18.0) | 850 (1265) | 129 (192) |
| 350 KCMIL (177) | Class B | 37 | .065 (1.7) | 0.820 (20.8) | 1176 (1750) | 129 (192) |
| 500 KCMIL (253) | Class B | 37 | .065 (1.7) | 0.950 (24.4) | 1659 (2469) | 129 (192) |

These cables are made in the USA, meeting ISO 9001 Quality Standard & 14001 Environmental Standard.

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.