



Your CONDUIT to Performance.™

Six-around-One Cable, 600Volt XHHW-2 Insulated Conductors, 400Hz

Used to distribute 400Hz electrical three phase power within aluminum or PVC conduit

Description:

This specification covers six-around-one cable, insulated with flame retardant cross-linked polyethylene, (XHHW-2). The conductors are type XHHW-2 per UL standard 44, are manufactured in accordance with NEC article 310 and comply in all respects with ICEA and NEMA standards.

Application:

Six-around one cable is for 600v operations where the maximum operating temperature does not exceed 90 degrees C in wet or dry locations. XHHW-2 is a general purpose building wire and its physical and electrical properties make it an excellent product for installation in duct or conduit, underground and where moisture may accumulate.

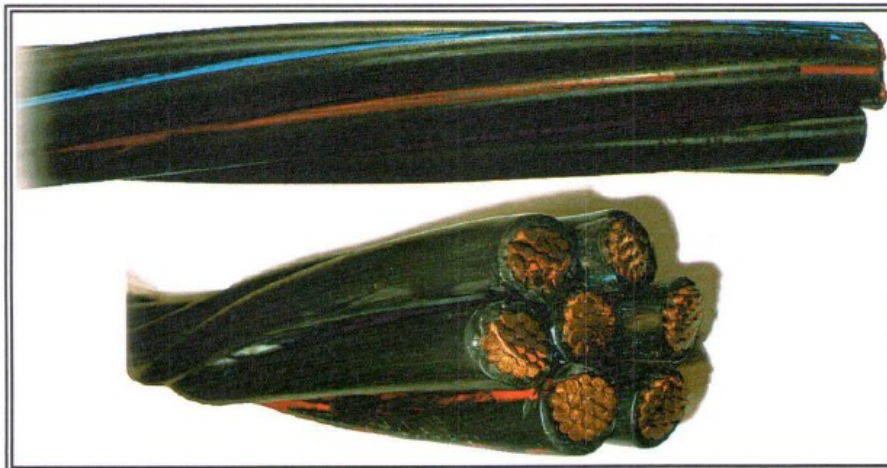
Construction data and specifications:

Conductors; The conductors consist of uncoated soft solid, solid or stranded copper meeting the requirements of ASTM B3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B8 for concentric compressed or B496 for concentric compacted copper conductors.

Insulation; The insulation is flame retardant cross linked polyethylene (XLP), extruded concentrically over the conductor to the wall thickness, as specified by UL44 for type XHHW-2 conductors. ICEA S-66-524/NEMA WC-7 and ICEA S-95-658/NEMA WC70. Insulation in black is UL listed as sunlight resistant. VW-1 flame retardant cross-linked polyethylene (XHHW-2 insulation is available upon request.

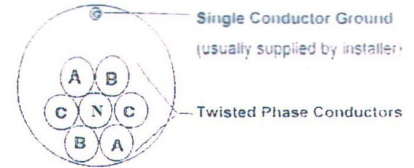
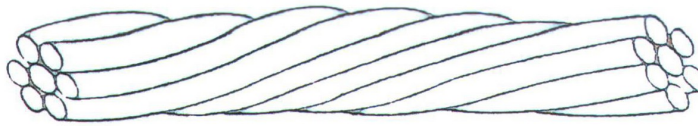
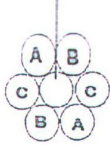
Conductor coding; Phase identification is provide by a suitable marking on each insulated conductor of multi conductor cable

Assembly; The required number of six insulated conductors will be twisted with a suitable left hand lay around a center insulated conductor per ICEA-NEMA specifications. An optional PVC jacket can be extruded over the multi conductor assembly. *Tests;* The finished wire will meet all test requirements as specified by ICEA S-66-524/NEMA WC-7, ICEA S-95-658/NEMA WC70 and UL44. VW-1 flame retardant cross-linked polyethylene.



400Hz Distribution Wire, Typical Construction

1 Non-Conductive Filler*



*in 7C bundles: core becomes the neutral (N) conductor

Part Number	Each Conductor		Insulation Each Conductor in Mils	Approximate O.D. Each Conductor in Inches	Approximate O.D. 7-Conductor Assembly in Inches
	Size AWG or KCMIL	No. of Strands			
P3027	6	7	45	0.275	0.831
P3033	4	7	45	0.325	0.975
P3030	2	19	45	0.385	1.155
P3028	1	19	55	0.445	1.344
P3029	1/0	19	55	0.485	1.464
P3032	2/0	19	55	0.530	1.602
P3035	3/0	19	55	0.580	1.758
P3036	4/0	19	55	0.640	1.932
P3031	250	37	65	0.705	2.142

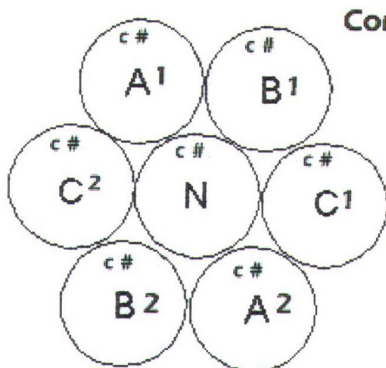
The above data is approximate and subject to normal manufacturing tolerances.

Standards:

Conductors are Listed by UL as Type XHHW-2 per Standard 44.
 Conforms to ICEA S-66-524/NEMA WC-7 Crosslinked Thermosetting Polyethylene Insulated Wire and Cable.
 Conforms to ICEA S-95-658/NEMA WC70 Nonshielded 0-2KV Cables.

When identifying conductors, ensure single center conductor is assigned as the neutral and work clockwise starting with A1 followed by B1, C1, A2, B2, C2.

400Hz Distribution Wire Configuration



- | Conductor # * | Phase |
|---------------|-------|
| — | A1 |
| — | B1 |
| — | C1 |
| — | A2 |
| — | B2 |
| — | C2 |
| — | N |

* conductor numbering varies.
 Modify numbering to match
 phase configuration

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