



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.

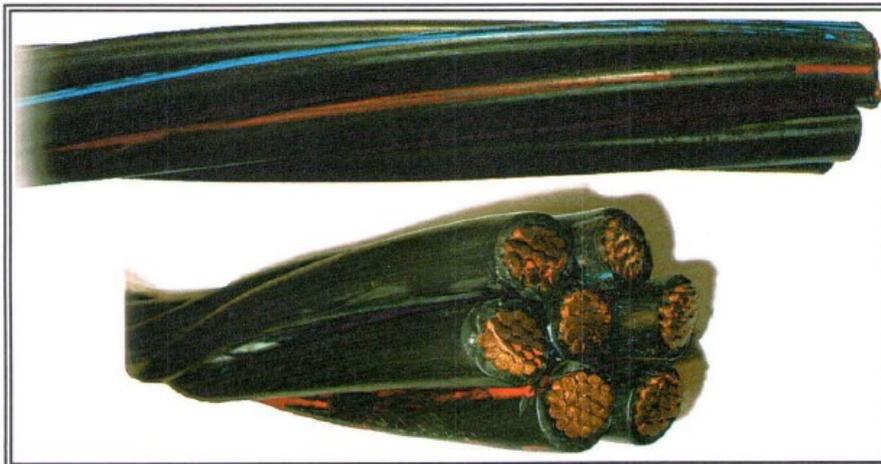
#### Construction data and specifications:

*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.

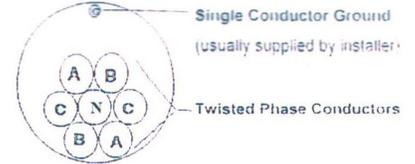
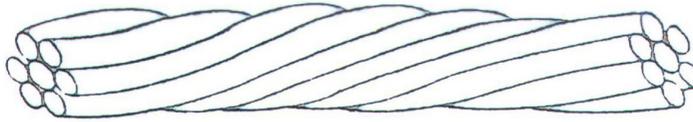
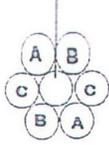
*Conductor coding;* Phase identification is provide by a suitable marking on each insulated conductor of multi conductor cable

*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

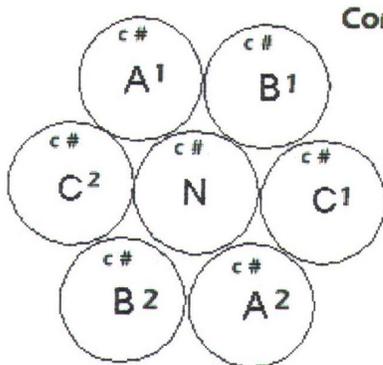
The above data is approximate and subject to normal manufacturing tolerances.

**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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TOLL FREE 1-855-465-PAGE  
 (1-855-465-7243)

PHONE 1-707-469-7243

FAX 1-707-469-7244

EMAIL SALES@PAGEINDUSTRIES.COM

PAGE GSE

2050 CESSNA DRIVE  
 VACAVILLE, CA 95688  
 USA

