

STABILOY®

FeederPlex™

Type XHHW-2



grounded in service
wired to innovate™



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wired to innovate™



“As the General Contractor for the Claremont Packing House project, I was faced with the challenge of retrofitting a historic building once used as a citrus fruit packing house into a mixed use facility of condominiums, retail stores and commercial businesses. After being introduced to Alcan’s FeederPlex™ cable, I advised Jeved Management that using the new plexed assembly would reduce their total installation costs on this project.

FeederPlex cable fed off of the reel easily during the installation. I liked the fact that I only needed one reel of cable instead of five reels of conductor to install a three phase system. I was able to install five conductors into conduit with only one simple pull. With each phase conductor in the assembly clearly marked with a color-coded striping, I automatically knew the sequence of the phases into the panel board.

My initial experience with FeederPlex XHHW Cable was a good one. I now prefer Alcan’s plexed aluminum cable solution over colored, non-plexed copper conductors. I will use FeederPlex in future projects because it provides significant savings in set-up, installation and material handling costs.”

*Paul Shields
General Contractor
Jeved Management
Claremont Packing House
Claremont, CA
Over 15 years experience in the electrical industry*

STABILOY® FeederPlex™

Type XHHW-2



Alcan introduces **FeederPlex™**, a new cost-effective solution for commercial and industrial applications that require phase identification. **FeederPlex** Type XHHW-2 is a plexed assembly of STABILOY® XHHW-2 conductors with each phase of the conductor assembly color coded. **FeederPlex** conductors provide total installed cost savings for pipe and wire installations when the specification calls for phase identification.

FeederPlex XHHW-2 cable exceeds the requirements of the Underwriters Laboratories, Inc. standards and is approved for use in accordance with the recommendations of the National Electrical Code. As with all STABILOY® building wire, these products are high quality, dependable and offer tremendous flexibility. STABILOY® alloy conductor material is recognized by ASTM.

Product Features

Alcan STABILOY® **FeederPlex** Type XHHW-2 cables offer several unique and outstanding features:

- **The first plexed aluminum, color coded solution** for pipe & wire applications.
- **The light weight and flexibility characteristics of STABILOY® conductors** allow conductor assemblies to be easily pulled into a raceway.
- **The pulling of only one reel of FeederPlex** versus four or five reels of single conductor significantly reduces installation time.
- **Color coding of phase conductors identifies voltage system** for typical commercial, industrial and residential applications.
- **Factory-produced assemblies minimize the number of reels required** at the job site.
- **Plexed assemblies provide distribution efficiencies** by reducing the number of SKUs required for stocking each color and wire size combination.
- **Set-up and application of lubricant during the pulling process is easier and more efficient** when using plexed assemblies.
- **Plexed conductor assembly offers lower voltage drop** versus the paralleling of individual conductors.



FeederPlex™ Type XHHW-2



Description:

FeederPlex™ XHHW-2 is a plexed assembly of compact stranded phase conductors with an optional ground conductor. The phase conductors are color coded using three stripes for identification. Mylar tape may be placed between the XLPE insulation and the conductor strands. The grounding conductor is identified with a solid colored insulation jacket.

Application:

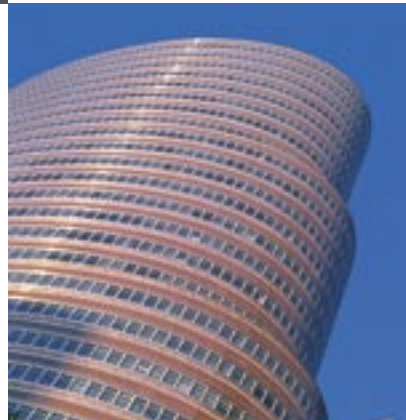
Installed in raceways for general-purpose wiring for up to 600V rated service and feeder circuits in residential, commercial, institutional and industrial buildings where specification for color coded identifications on the conductors is required.

Marking:

Cables will bear the following surface marking:
Alcan (Plant of Manufacture) (Size) Compact AL STABILOY®
AA-8030 Series XLPE 600 V XHHW-2 SUN-RES (UL)
(Year of Manufacture).

Available Options:

Plexed assemblies for parallel runs are available with equipment grounding conductor complying with the NEC 250.122 for applications up to 4,000 amps.



This catalog is intended to provide introductory technical data to aid the correct selection of wire and cable for permanent installation. Wire and cable products supplied by Alcan comply with the codes, standards and product specifications as indicated in this catalog. Weights and measurements are subject to manufacturing tolerances and product design changes. Consequently, Alcan does not accept responsibility for costs incurred by a purchaser as a result of weights and measurements not conforming exactly to those indicated.

STABILOY® FeederPlex™ XHHW-2 Conductor Assemblies

Conductor Size ¹ (AWG/kcmil)	Diameter Over Assembly (in)	Length (ft)	Reel Size (in)	Nominal Mass (lb/M ft)	Rating of OC Device ^{2,3} (Amp) 75° C	Current Carrying Capacity (75° C)	Conduit Size (EMT) (in)
THREE CONDUCTOR WITH INSULATED GROUND (Available in B-R-W-G or B-O-Y-G Colors)⁴							
6-6-6-6	0.63	1000	24x18x8	155	50	50	3/4
4-4-4-6	0.71	1000	27x18x10	209	70	65	1
2-2-2-6	0.81	1000	30x24x12	290	90	90	1 1/4
1-1-1-4	0.93	1000	32x24x12	379	100	100	1 1/4
1/0-1/0-1/0-4	1.00	1000	36x24x17	451	125	120	1 1/4
2/0-2/0-2/0-4	1.08	1000	40x24x17	539	150	135	1 1/2
3/0-3/0-3/0-4	1.17	1000	40x24x17	649	175	155	1 1/2
4/0-4/0-4/0-2	1.29	1000	42x26x18	815	200	180	2
250-250-250-2	1.42	500	36x24x17	961	225	205	2
300-300-300-2	1.52	500	40x24x17	1118	250	230	2
350-350-350-2	1.61	500	40x24x17	1274	250	250	2 1/2
400-400-400-1	1.71	500	42x26x18	1452	300	270	2 1/2
500-500-500-1	1.86	500	42x28x18	1760	350	310	2 1/2
600-600-600-1	2.07	500	48x28x24	2126	350	340	3
700-700-700-1/0	2.21	500	50x32x24	2458	400	375	3
750-750-750-1/0	2.27	500	50x32x24	2611	400	385	3
900-900-900-1/0	2.45	500	54x32x24	3072	400	425	3
FOUR CONDUCTOR WITH INSULATED GROUND (Available in B-R-B-W-G or B-O-Y-W-G Colors)⁴							
6-6-6-6-6	0.70	1000	27x18x10	194	50	50	1
4-4-4-4-6	0.79	1000	30x24x12	265	70	65	1
2-2-2-2-6	0.90	1000	30x24x12	374	90	90	1 1/4
1-1-1-1-4	1.04	1000	34x26x14	486	100	100	1 1/2
1/0-1/0-1/0-1/0-4	1.11	1000	40x24x17	582	125	120	1 1/2
2/0-2/0-2/0-2/0-4	1.20	1000	42x26x18	700	150	135	2
3/0-3/0-3/0-3/0-4	1.30	1000	42x26x18	847	175	155	2
4/0-4/0-4/0-4/0-2	1.44	1000	48x28x24	1059	200	180	2
250-250-250-250-1	1.60	500	40x24x17	1276	225 (1) 400 (2)	205 205	2 1/2 2 1/2
300-300-300-300-1	1.71	500	42x26x18	1486	250	230	2 1/2
350-350-350-350-1/0	1.83	500	42x26x18	1718	250	250	2 1/2
400-400-400-400-1/0	1.92	500	42x28x18	1925	300	270	2 1/2
500-500-500-500-2/0	2.10	500	48x28x24	2364	350 (1) 600 (2)	310 310	3 3
500-500-500-500-250	2.20	500	50x32x24	2496	350 (1) 600 (2) 1200 (4)	310 310 310	3 3 3
600-600-600-600-2/0	2.33	500	50x32x24	2852	350	340	3
600-600-600-600-400	2.51	500	54x32x24	3140	1000 (3) 1600 (5) 2000 (6)	340 340 340	3 3 3
700-700-700-700-2/0	2.47	500	54x32x24	3263	400	375	3 1/2
750-750-750-750-3/0	2.56	500	54x32x24	3504	400 (1) 800 (2)	385 385	3 1/2 3 1/2
750-750-750-750-750	2.88	500	60x32x30	4133	2500 (7) 3000 (8) 4000 (11)	385 385 385	4 4 4
900-900-900-900-3/0	2.75	500	60x28x28	4118	400 (1) 800 (2)	425 425	4 4
900-900-900-900-900	3.13	500	66x28x30	4901	1200 (3) 1600 (4) 2000 (5) 2500 (6) 4000 (10)	425 425 425 425 425	4 4 4 4 4

¹ Sizes shown in bold are in-stock items. Other sizes and configurations available upon request.

² See Table 310.16 of the NEC for ampacity values and also refer to 110.14 for other applicable requirements.

³ The rating of the overcurrent device shown above is in accordance with the NEC. See 240.4 and 240.6. Where shown, the number in parenthesis indicates the number of parallel runs required for a given rating of the overcurrent device.

⁴ Color coding of conductors for typical applications:

Voltage System
240/120 V
480/208 V
208/120 V
480/277 V

Color Code
Black-Red-White
Brown-Orange-Yellow
Black-Red-Blue-White
Brown-Orange-Yellow-White

Typical Applications

Single phase commercial and residential installations
Three phase delta with high leg
Three phase wye for commercial installations
Three phase wye for industrial installations

Alcan Cable operates throughout North America – in the U.S. as a division of Alcan Products Corporation, and in Canada as a division of Alcan, Inc. Alcan Cable has its own research and development facilities and is backed by the technology and laboratories of the Alcan Group. We're proud of our long history of providing new and innovative solutions to the many customers we serve.



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