

# XHH/XHHW-2

Copper Conductor

**Prysmian**  
Group



## Description

The XHH/XHHW-2 Is a single insulated stranded conductor Class B or C annealed copper, with thermoset insulation materials composed by black crosslinked polyethylene (XLPE).

## Standard Specifications

The XHH/XHHW-2 conductors are built based on the following:

- Standards: **ASTM B3, B8, B787 y UL 44.**
- Certificate: **UL E179372.**

## Features

- The XHHW-2 cables are designed with a high resistance thermoset cross-linked polyethylene insulation to be installed on dry, damped or wet locations at temperatures not exceeding 90°C at 1000 V maximum operating voltage.

- Due to the cross-linked polyethylene insulation, the conductors provide a high performance for: mechanical stress, humidity, oils and chemical resistance.
- The carbon black insulation content provides UV resistance, allowing product installation directly exposed on tray cables, metal conduits and raceways.



## Applications

- The XHHW-2 conductors are designed for feeders and branch circuits in commercial and residential applications. The high mechanical strength of the insulation allows for underground feeder systems.
- They provide a high-performance during overload and short-circuit conditions.
- The XHHW-2 cables can be installed in ducts either metallic or plastic in tray cables (CT certified available, special order).



### PRYSMIAN GROUP

Central America & Caribbean  
Kilometer 11 General Cañas Highway. Heredia, Costa Rica  
Customer Service Hub: + (506) 2298-4800  
info.centroamerica@prysmiangroup.com  
www.generalcable.com

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### Technical Information

#### Nominal dimensions and features

The conductor operating amperage is defined by the installation condition and operating temperatures identified in the NEC. See TABLE 310.15(B)(16) NFPA 70 latest version.

Gauge		Area		Wires	Insulation Thickness		External Diameter		Weight	DC Max. @ 20°C Resistance
AWG/kcmil	C.M.	mm <sup>2</sup>	#	in	mm	in	mm	kg/km	Ω/km	
6	26 240	13,30	7	0,045	1,14	0,274	6,96	140	1,35	
4	41 740	21,15	19	0,045	1,14	0,316	8,03	214	0,848	
2	66 360	33,63	19	0,045	1,14	0,376	9,55	331	0,534	
1/0	105 600	53,51	19	0,055	1,40	0,470	11,94	525	0,335	
2/0	133 100	67,44	19	0,055	1,40	0,514	13,06	654	0,266	
3/0	167 800	85,03	19	0,055	1,40	0,564	14,33	817	0,211	
4/0	211 600	107,22	19	0,055	1,40	0,620	15,75	1 023	0,167	
250	250 000	126,68	37	0,065	1,65	0,688	17,48	1 210	0,142	
300	300 000	152,01	37	0,065	1,65	0,741	18,82	1 443	0,118	
350	350 000	177,35	37	0,065	1,65	0,791	20,09	1 679	0,101	
400	400 000	202,68	37	0,065	1,65	0,836	21,23	1 918	0,0885	
500	500 000	253,36	37	0,065	1,65	0,919	23,34	2 374	0,0708	
600	600 000	304,03	61	0,080	2,03	1,026	26,06	2 864	0,0590	
750	750 000	380,03	61	0,080	2,03	1,128	28,65	3 541	0,0472	
1 000	1 000 000	506,71	61	0,080	2,03	1,277	32,44	4 689	0,0354	

Note: The values given may vary according to the manufacturing tolerances



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