



Detail Description or Construction

Type XHH is a single insulated conductor of solid or stranded bare annealed copper, with insulation of thermoset materials composed by crosslinked polyethylene Insulation and designed to operate not beyond 600V.

Application

The XHH conductor is suitable for most current wiring solutions for residential, commercial and industrial applications. Because of its excellent response under overload and short-circuit situations it is used in service entrance even underground installations. The XHH conductor is able to work properly up to 90°C in dry and wet environmental conditions. Its Insulation isolation is flame retardant, besides, it provides mechanical resistance against to humidity, chemical agents and oils. Its black pigmentation resist very well the ultraviolet sun light, therefore it could be used with no issue in outside applications.

Conductors certified with suffix “-2”, as XHH-2, these can meet a continuous operation temperature of 90°C(194°F) in dry or wet conditions.

Standards / Testing Specifications

- XHH conductors have been designed according to ASTM B3, B8, UL-1581, UL-44 specifications and requirements of the latest version of the National Electrical Code (NEC).

Marking

PHELPS DODGE XHH / XHHW-2 (GAUGE)
600V Insulation (UL) E176603.

Installation

XHH conductors in sizes from 14 AWG up to 1000 Kcmil (MCM) can be installed in conduits, raceways. Available colors are black, red, white, blue and green. Sizes 10 AWG and larger are manufactured in black color therefore can be installed in cable trays for outside applications. It is recommended that the installation instructions indicated by the latest revision of the NEC or any Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation. For current ampacity details please refer to NEC tables 310-16, 310-17 and 310-20 according to each application.



XHH / XHHW - 2

600 V Copper Conductor. Crosslinked Insulation

TECHNICAL INFORMATION (Central America)

Size	Nominal Cross Section Area		Number of Strands	Nominal Isolation Thickness		Total Aproximate External Diameter		Total Aproximate Weight Kg / Km	Máx.C.D. Electrical Resistance @30°C Ω / Km	Standad Packaging m
	AWG / MCM	C.M.		mm ²	in	mm	in			
14	4110	2,08	1	0,030	0,76	0,124	3,15	24	8,81	WR 305
12	6530	3,31	1	0,030	0,76	0,141	3,58	36	5,57	WR 305
10	10380	5,26	1	0,030	0,76	0,162	4,11	55	3,49	WR 305
8	16510	8,37	1	0,045	1,14	0,218	5,55	91	2,19	WR 305
6	26240	13,30	1	0,045	1,14	0,252	6,40	138	1,37	WR 305
14	4110	2,08	7	0,030	0,76	0,133	3,37	26	8,98	WR 305
12	6530	3,31	7	0,030	0,76	0,152	3,85	39	5,68	WR 305
10	10380	5,26	7	0,030	0,76	0,176	4,46	58	3,56	WR 305
8	16510	8,37	7	0,045	1,14	0,236	5,99	96	2,23	WR 305
6	26240	13,30	7	0,045	1,14	0,274	6,95	146	1,40	WR 305
4	41740	21,15	19	0,045	1,14	0,316	8,04	220	0,881	WR 305
3	52620	26,66	19	0,045	1,14	0,344	8,75	274	0,700	WR 305
2	66360	33,63	19	0,045	1,14	0,376	9,54	341	0,554	WR 305
1	83690	42,41	19	0,045	1,14	0,431	10,94	434	0,443	WR 305
1/0	105600	53,51	19	0,055	1,40	0,470	11,94	541	0,348	WR 305
2/0	133100	67,44	19	0,055	1,40	0,514	13,07	674	0,277	WR 305
3/0	167800	85,03	19	0,055	1,40	0,564	14,33	842	0,220	WR 305
4/0	211600	107,22	19	0,055	1,40	0,620	15,75	1053	0,174	WR 305
250	250000	126,68	37	0,065	1,65	0,706	17,93	1247	0,148	WR 305
300	300000	152,01	37	0,065	1,65	0,761	19,33	1486	0,123	WR 305
350	350000	177,35	37	0,065	1,65	0,812	20,62	1725	0,105	WR 305
400	400000	202,68	37	0,065	1,65	0,859	21,82	1963	0,0919	WR 305
500	500000	253,36	37	0,065	1,65	0,945	24,00	2439	0,0738	WR 305
600	600000	304,03	61	0,080	2,03	1,053	26,75	2946	0,0617	WR 305
750	750000	380,03	61	0,080	2,03	1,159	29,44	3660	0,0491	WR 305
1000	1000000	506,71	61	0,080	2,03	1,313	33,35	4845	0,0369	WR 305

Packaging:

WR: wooden reel, CB: carton box, C: coils



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600 V Copper Conductor. Crosslinked Insulation

TECHNICAL INFORMATION (Puerto Rico and USA)

Gauge	Nominal Cross Section Area		Number of Strands	Nominal Isolation Thickness		Total Aproximate External Diameter		Total Aproximate Weight	Máx.C.D. Electrical Resistance @30°C	Standad Packaging
	AWG / MCM	C.M.		mm ²	in	mm	in	mm	lb / 1000 ft	Ω / 1000 ft
14	4110	2,08	19	0,030	0,76	0,131	3,33	17	2,74	WR 305
12	6530	3,31	19	0,030	0,76	0,150	3,80	26	1,73	WR 305
10	10380	5,26	19	0,030	0,76	0,173	4,39	39	1,08	WR 305
8	16510	8,37	19	0,045	1,14	0,232	5,90	64	0,680	WR 305
6	26240	13,30	19	0,045	1,14	0,270	6,85	96	0,427	WR 305
4	41740	21,15	19	0,045	1,14	0,316	8,04	148	0,269	WR 305
3	52620	26,66	19	0,045	1,14	0,344	8,75	184	0,213	WR 305
2	66360	33,63	19	0,045	1,14	0,376	9,54	229	0,169	WR 305
1	83690	42,41	19	0,045	1,14	0,431	10,94	291	0,135	WR 305
1/0	105600	53,51	19	0,055	1,40	0,470	11,94	363	0,106	WR 305
2/0	133100	67,44	19	0,055	1,40	0,514	13,07	453	0,0845	WR 305
3/0	167800	85,03	19	0,055	1,40	0,564	14,33	565	0,0670	WR 305
4/0	211600	107,22	19	0,055	1,40	0,620	15,75	707	0,0531	WR 305
250	250000	126,68	37	0,065	1,65	0,706	17,93	837	0,0450	WR 305
300	300000	152,01	37	0,065	1,65	0,761	19,33	998	0,0375	WR 305
350	350000	177,35	37	0,065	1,65	0,812	20,62	1158	0,0321	WR 305
400	400000	202,68	37	0,065	1,65	0,859	21,82	1318	0,0280	WR 305
500	500000	253,36	37	0,065	1,65	0,945	24,00	1637	0,0225	WR 305
600	600000	304,03	61	0,080	2,03	1,053	26,75	1978	0,0188	WR 305
750	750000	380,03	61	0,080	2,03	1,159	29,44	2457	0,0150	WR 305
1000	1000000	506,71	61	0,080	2,03	1,313	33,35	3253	0,0113	WR 305

Packaging:

WR: wooden reel, CB: carton box, C: coils