KINGWIRE x factor

Conversion of THHN (Standard Strand COPPER Conductor) to XHHW-2 (Compact Strand ALUMINUM Conductor)

			Electrical Metallic Tubing (EMT)									
Type	Size	Amperes	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	8	55	3	6	9	16	22	36	64	96	126	161
XHHW-2	6	60	1	4	6	11	15	25	44	66	87	111
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	6	75	2	4	7	12	16	26	46	69	91	116
XHHW-2	4	75	1	3	4	8	11	18	32	48	63	81
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	4	95	1	2	4	7	10	16	28	43	56	71
XHHW-2	2	100	1	1	3	6	8	13	23	34	45	58
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	2	130	1	1	3	5	7	11	20	30	40	51
XHHW-2	1/0	135	1	1	1	3	5	8	14	22	29	37
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	1	150	1	1	1	4	5	8	15	22	29	37
XHHW-2	2/0	150	1	1	1	3	4	7	12	18	24	31
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	1/0	170	1	1	1	3	4	7	12	19	25	32
XHHW-2	3/0	175	0	1	1	2	3	6	10	15	20	25
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	2/0	195	0	1	1	2	3	6	10	16	20	26
XHHW-2	4/0	205	0	1	1	1	3	5	8	13	17	21
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	3/0	225	0	1	1	1	3	5	8	13	17	22
XHHW-2	250	230	0	1	1	1	2	4	7	10	13	17
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	4/0	260	0	1	1	1	2	4	7	11	14	18
XHHW-2	350	280	0	0	1	1	1	3	5	8	10	13
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	250	290	0	0	1	1	1	3	6	9	11	15
XHHW-2	400	305	0	0	1	1	1	2	4	7	9	11
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	350	350	0	0	1	1	1	2	4	6	9	11
XHHW-2	500	350	0	0	0	1	1	1	4	6	7	9
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	400	380	0	0	0	1	1	1	4	6	8	10
XHHW-2	600	385	0	0	0	1	1	1	3	4	6	8
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	500	430	0	0	0	1	1	1	3	5	6	8
XHHW-2	750	435	0	0	0	1	1	1	2	3	5	6
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	600	475	0	0	0	1	1	1	2	4	5	7
XHHW-2	900	480	0	0	0	0	1	1	2	3	4	5
			1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
THHN	600	475	0	0	0	1	1	1	2	4	5	7
XHHW-2	1000	500	0	0	0	0	1	1	1	3	4	5
*Data from NEC2005		*Table 310.16	*THHN -- Table C.1 & XHHW-2 -- Table C.1(A)									

	Intermediate Metal Conduit (IMC)									
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
3	6	10	18	24	39	56	86	115	149
2	4	7	12	16	27	38	59	80	103
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
2	4	7	13	17	28	40	62	83	107
1	3	5	9	12	20	28	43	58	74
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
1	3	4	8	10	17	25	38	51	66
1	1	3	6	8	14	20	31	41	53
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
1	1	3	5	7	12	17	27	36	47
1	1	2	4	5	9	13	20	26	34
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
1	1	2	4	5	9	13	20	27	35
1	1	1	3	4	7	11	17	22	29
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
1	1	1	3	4	8	11	17	23	29
0	1	1	3	4	6	9	14	18	24
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
1	1	1	3	4	6	9	14	19	24
0	1	1	2	3	5	7	11	15	20
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	1	1	2	3	5	7	12	16	20
0	1	1	1	2	4	6	9	12	16
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	1	1	1	2	4	6	9	13	17
0	0	1	1	1	3	4	7	9	12
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	0	1	1	1	3	5	8	10	13
0	0	1	1	1	3	4	6	8	11
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	0	1	1	1	2	4	6	8	10
0	0	1	1	1	2	3	5	7	9
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	0	1	1	1	2	3	5	7	9
0	0	0	1	1	1	2	4	5	7
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	0	0	1	1	1	3	4	6	7
0	0	0	1	1	1	1	3	4	6
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	0	0	1	1	1	2	3	5	6
0	0	0	0	1	1	2	3	4	5
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
0	0	0	1	1	1	2	3	5	6
0	0	0	0	1	1	1	2	3	4
*THHN -- Table C.4 & XHHW-2 -- Table C.4(A)									

	Rigid Metal Conduit (RMC)											
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
3	6	9	16	22	37	53	82	109	140	221	318
2	4	6	11	15	25	36	56	75	97	152	220
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
2	4	7	12	16	27	38	59	79	101	159	230
1	3	5	8	11	18	26	41	55	70	110	159
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	2	4	7	10	16	23	36	48	62	98	141
1	1	3	6	8	13	19	29	39	50	79	114
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	1	3	5	7	11	17	26	34	44	70	100
1	1	2	4	5	8	12	19	25	32	51	73
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	1	1	4	5	8	12	19	25	33	51	74
1	1	1	3	4	7	10	16	21	27	43	62
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	1	1	3	4	7	10	16	21	27	43	63
0	1	1	2	3	6	8	13	17	22	35	51
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	1	1	2	3	6	8	13	18	23	36	52
0	1	1	1	3	5	7	11	14	19	29	42
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	1	1	1	3	5	7	11	15	19	30	43
0	1	1	1	2	4	5	8	11	15	23	34
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	1	1	1	2	4	6	9	12	16	25	36
0	0	1	1	1	3	4	6	9	11	18	25
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	1	1	1	3	5	7	10	13	20	29
0	0	1	1	1	2	4	6	8	10	16	23
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	1	1	1	2	3	5	7	10	15	22
0	0	0	1	1	1	3	5	6	8	13	19
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	1	1	1	2	3	5	7	8	13	20
0	0	0	1	1	1	2	4	5	7	10	15
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	2	4	5	7	11	16
0	0	0	1	1	1	1	3	4	5	8	12
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	1	3	4	6	9	13
0	0	0	0	1	1	2	2	3	5	7	10
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	1	3	4	6	9	13
0	0	0	0	1	1	1	2	3	4	7	10
*THHN -- Table C.8 & XHHW-2 -- TableC.8(A)											

	Rigid PVC Conduit, Schedule 40 and HDPE Conduit											
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
3	5	9	16	21	36	51	79	106	137	216	312
1	4	6	11	15	25	35	55	73	94	149	215
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	4	6	11	15	26	37	57	77	99	156	225
1	2	4	8	11	18	25	40	53	68	108	156
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	2	4	7	9	16	22	35	47	61	96	138
1	1	3	5	8	13	18	28	38	49	77	112
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	1	3	5	7	11	16	25	33	43	68	98
1	1	1	3	5	8	12	18	24	31	49	72
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	1	1	3	5	8	12	18	25	32	50	73
1	1	1	3	4	7	10	15	20	26	42	60
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1	1	1	3	4	7	10	15	21	27	42	61
0	1	1	2	3	5	8	12	17	22	34	50
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	1	1	2	3	6	8	13	17	22	35	51
0	1	1	1	3	5	7	10	14	18	29	42
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	1	1	1	3	5	7	11	14	18	29	42
0	0	1	1	1	4	5	8	11	14	23	33
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	1	1	1	2	4	6	9	12	15	24	35
0	0	1	1	1	3	4	6	8	11	17	25
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	1	1	1	3	4	7	10	12	20	28
0	0	1	1	1	2	3	5	7	10	15	22
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	1	1	1	2	3	5	7	9	15	21
0	0	0	1	1	1	3	4	6	8	13	18
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	3	5	6	8	13	19
0	0	0	1	1	1	2	4	5	6	10	15
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	2	4	5	6	10	15
0	0	0	1	1	1	1	3	4	5	8	12
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	1	3	4	5	9	13
0	0	0	0	1	1	1	2	3	4	6	9
1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
0	0	0	1	1	1	1	3	4	5	9	13
0	0	0	0	1	1	1	2	3	4	6	9
*THHN -- Table C.10 & XHHW-2 -- Table C.10(A)											

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