POWER KABEL INC.

TYPE MC-HL WELDED ARMOR MULTI-CONDUCTORS 16-10AWG COPPER XHHW PVC 600V

APPLICATIONS & FEATURES

600 Volt Type MC-HL WELDED ARMOR control cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, 250°C for short circuit conditions, and -50°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503.

INDUSTRY COMPLIANCES

- ASTM B3 - Soft or annealed copper
- ASTM B8 - Concentric-lay-standard copper
- UL 44 - Thermoset Insulated wires and cables
- UL 1569 - Metal-Clad Cables
- UL 1685 - Flame Test
- UL 1309 - Listed as Marine Shipboard Cable
- IEEE 1202/FT4 - Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)
- ICEA S-73-532 - Standard for Control, Thermocouple Extension and Instrumentation Cables

CONSTRUCTION

CONDUCTORS:	7 strands class B compressed bare copper per ASTM B3 and ASTM B8
INSULATION:	Cross Linked Polyethylene (XLPE) XHHW-2, 30 Mils thick for all cable sizes
GROUNDING CONDUCTOR:	Class B compressed stranded copper with green insulation
FILLER:	Polypropylene filler on cables with 5 or less conductors
BINDER:	Polyester flat thread binder tape applied for cables with more than 5 conductors
ARMOR:	Continuous Corrugated Welded Armor
JACKET:	Polyvinyl Chloride (PVC) Jacket

AWG	No of CONDUCTORS	CONDUCTOR OD (INCHES)	GROUND No X AWG	ARMOR OD (INCHES)	JACKET THICKNESS (MILS)	OUTSIDE DIAMETER (INCHES)	POUNDS PER 1000 FT
16	2	0.056	1 x 16	0.480	50	0.580	142
16	3	0.056	1 x 16	0.480	50	0.580	156
16	4	0.056	1 x 16	0.530	50	0.630	179
16	5	0.056	1 x 16	0.570	50	0.670	202
16	6	0.056	1 x 16	0.570	50	0.670	212
16	7	0.056	1 x 16	0.610	50	0.710	236
16	8	0.056	1 x 16	0.65	50	0.75	259
16	9	0.056	1 x 16	0.7	50	0.8	287
16	11	0.056	1 x 16	0.7	50	0.8	311
16	14	0.056	1 x 16	0.79	50	0.89	372
16	18	0.056	1 x 16	0.84	50	0.94	430
16	19	0.056	1 x 16	0.88	50	0.98	457
16	24	0.056	1 x 16	0.92	50	1.02	536
16	29	0.056	1 x 16	1.02	50	1.12	627
16	36	0.056	1 x 16	1.06	50	1.16	727
14	2	0.07	1 x 14	0.48	50	0.58	160
14	3	0.07	1 x 14	0.53	50	0.63	188
14	4	0.07	1 x 14	0.57	50	0.67	216
14	5	0.07	1 x 14	0.61	50	0.71	245
14	6	0.07	1 x 14	0.61	50	0.71	260
14	7	0.07	1 x 14	0.65	50	0.75	290
14	8	0.07	1 x 14	0.7	50	0.8	321
14	9	0.07	1 x 14	0.75	50	0.85	355
14	11	0.07	1 x 14	0.79	50	0.89	398
14	12	0.07	1 x 14	0.79	50	0.89	434
14	14	0.07	1 x 14	0.84	50	0.94	468
14	18	0.07	1 x 14	0.92	50	1.02	555
14	19	0.07	1 x 14	0.92	50	1.02	580
14	24	0.07	1 x 14	1.02	50	1.12	707
14	29	0.07	1 x 14	1.06	50	1.16	806
14	36	0.07	1 x 14	1.22	50	1.32	994
12	1	0.087	1 x 12	0.53	50	0.63	177
12	2	0.087	1 x 12	0.53	50	0.63	197
12	3	0.087	1 x 12	0.57	50	0.67	233
12	4	0.087	1 x 12	0.61	50	0.71	269
12	5	0.087	1 x 12	0.65	50	0.75	307

TYPE MC-HL WELDED ARMOR MULTI-CONDUCTORS 16-10AWG COPPER XHHW PVC 600V

AWG	No of CONDUCTORS	CONDUCTOR OD (INCHES)	GROUND No X AWG	ARMOR OD (INCHES)	JACKET THICKNESS (MILS)	OUTSIDE DIAMETER (INCHES)	POUNDS PER 1000 FT
12	6	0.087	1 x 12	0.65	50	0.75	331
12	7	0.087	1 x 12	0.7	50	0.8	371
12	8	0.087	1 x 12	0.79	50	0.89	420
12	9	0.087	1 x 12	0.84	50	0.94	464
12	11	0.087	1 x 12	0.84	50	0.94	516
12	12	0.087	1 x 12	0.92	50	1.02	523
12	14	0.087	1 x 12	0.92	50	1.02	621
12	18	0.087	1 x 12	0.92	50	1.02	725
12	19	0.087	1 x 12	1.02	50	1.12	786
12	24	0.087	1 x 12	1.22	50	1.32	995
12	29	0.087	1 x 12	1.22	50	1.32	1131
12	36	0.087	1 x 12	1.35	50	1.45	1406
10	2	0.111	1 x 10	0.61	50	0.71	256
10	3	0.111	1 x 10	0.65	50	0.75	306
10	4	0.111	1 x 10	0.7	50	0.8	359
10	5	0.111	1 x 10	0.75	50	0.85	413
10	6	0.111	1 x 10	0.75	50	0.85	449
10	7	0.111	1 x 10	0.79	50	0.89	502
10	8	0.111	1 x 10	0.84	50	0.94	557
10	9	0.111	1 x 10	0.92	50	1.02	625
10	11	0.111	1 x 10	0.92	50	1.02	703
10	14	0.111	1 x 10	1.02	50	1.12	861
10	18	0.111	1 x 10	1.06	50	1.16	1025
10	19	0.111	1 x 10	1.22	50	1.32	1132
10	24	0.111	1 x 10	1.35	50	1.45	1432
10	29	0.111	1 x 10	1.43	50	1.53	1657
10	36	0.111	1 x 10	1.54	60	1.66	2010

All values are nominal and subject to correction.