

PURPOSE:

To provide a purchasing specification for Harrington round power cables

SCOPE:

Harrington Items (Power): 16/3, 16/4, 14/4, 14/8, 14/10, 12/4, 12/8, 12/10, 10/4, 8/4

SPECIFICATIONS:

1. <u>GENERAL:</u>	Multi-conductor, 600 volt cable for indoor or outdoor hoist and crane power applications. Type SOOW, FT-2, rated for -40C to 90C, designed to provide maximum flex-life under demanding continuous flexing conditions.
2. <u>CONDUCTOR:</u>	Extra flexible stranded, soft-drawn, bare copper (Class K) per ASTM B174.
3. <u>INSULATION:</u>	Heat, oil, and water resistant EPDM meeting UL-62 and CSA C22.2 No. 49. Insulation shall be acceptable for 90°C environments. Thickness per Table 1.
4. <u>COLOR CODE:</u>	ICEA/NEMA Method 1-E1 (K-1). See Table 1.
5. <u>JACKET:</u>	Heat, oil, water and sunlight resistant, black chlorinated polyethylene (CPE) meeting the UL-62 and CSA C22.2 No. 49. Thickness per Table 1.
6. <u>CERTIFICATION:</u>	The cable shall carry appropriate certifications from UL and CSA in accordance with the appropriate national standards for the USA and Canada. Product shall also be MSHA listed, RoHS Compliant, and comply with NEC Article 400.
7. <u>MARKING:</u>	Information to be printed on the overall jacket shall be according to marking and identification requirements of the applicable standards. Likewise, intervals at which the information appears shall be determined by applicable standards. UL and CSA certification numbers shall also be printed on jacket
8. <u>DIMENSIONS</u>	See Table 1, and Figure 1.
9. <u>PACKAGING</u>	Cable shall be wound on reel and tagged per UL62. Tag shall be firmly attached to reel, but removable (e.g. no glue and not shrink wrapped to reel)

Table 1 – Specifications and Dimensions

Type	HHI Item Number	Conductors		Stranding No./AWG	Average Insulation Thickness (mils)	Average Jacket Thickness (mils)	Nominal Cable O.D. A (in.)	Nominal Cable Weight (lbs/mft)*	Allowable Ampacity (amps)**	Color Coding ICEA/NEMA Method 1-E1 (K-1)
		Size (AWG)	No.							
Power Cable	16/3	16	3	26/30	30	80	0.390	94	13	1 – Black 2 – White 3 – Red 4 – Green 5 – Orange 6 – Blue 7 – White/Black 8 – Red/Black 9 – Green/Black 10 – Orange/Black
	16/4	16	4	26/30	30	80	0.415	118	10	
	14/4	14	4	41/30	45	80	0.570	201	15	
	14/8		8		45	95	0.743	341	10.5	
	14/10		10		45	95	0.858	410	10.5	
	12/4	12	4	65/30	45	80	0.650	276	20	
	12/8		8		45	95	0.803	418	14	
	12/10		10		45	110	0.930	505	14	
	10/4	10	4	104/30	45	95	0.710	360	25	
	8/4	8	4	133/29	60	95	0.953	619	35	

* mft= 1000 feet

** Per NEC Table 400.5(A) – Allowable Ampacity for Flexible Cords and Cables Based on Ambient Temperature of 30C (86F)

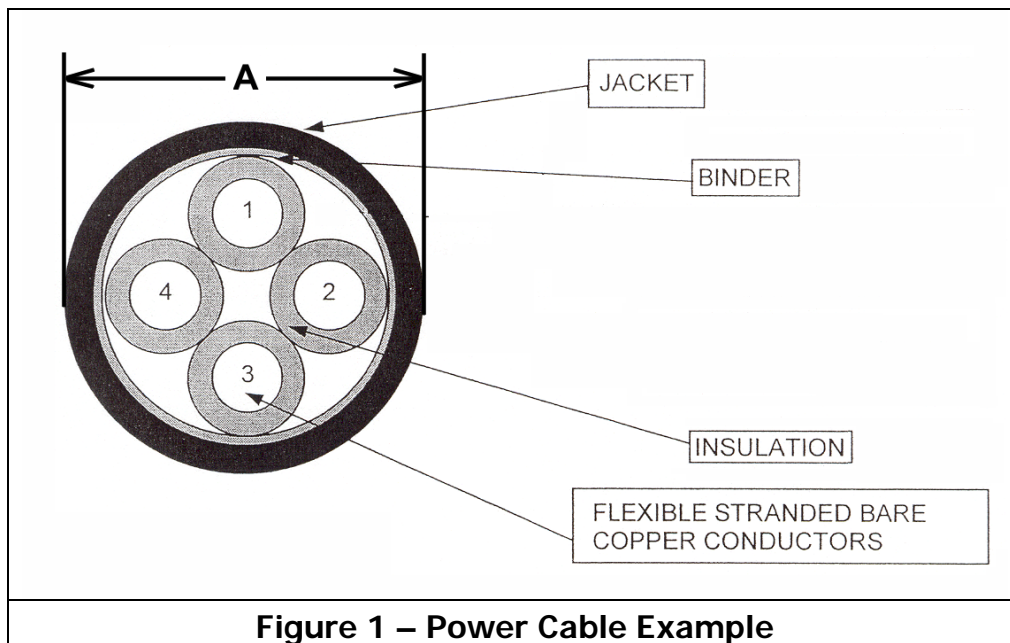


Figure 1 – Power Cable Example