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m E970193\text{-}B\text{-}W}$  drwg no. Rev. GID

## COMPONENT SPECIFICATION

TITLE

## **Portable Power Cable – NEC Type W**

APPROVALS:	DATE	REV	DCN NO	BY	СНК	DCC	DATE
DRAWN: W. Althouse CHECKED:	1/5/98	A B	E970194-00-W E980002-00-W	n/a WEA	n/a	n/a	n/a 1/15/98
APPROVED:			L)00002 00 VV				1/13/70
DCC RELEASE:							

**Description:** Portable power cable meeting the following specifications and supplied in the designated lengths. Cable is to be suitable for multiple use, in a portable outdoor temporary power installation. Oil, sunlight and moisture resistance are important.

**Requirements:** 

Applicable Standards: NFPA 70 (National Electrical Code) portable cable type "W"

ICEA S-68-516 NEMA WC-3

**UL Listing:** The cable shall be UL listed.

**Conductor:** Single conductor, rope stranded copper, 500 kcmil, nominally 427 strands x 0.0342 in. diam.

**Insulation:** Ethylene Propylene Rubber rated for 90 °C

**Jacket:** Thermoset CV cured, oil, sunlight and moisture resistant, jute and rubber fillers if applicable.

Ampacity: Minimum 695 A at ambient temperature of 40 °C; resistance approximately 0.0227 ohms per

1000 ft. at 25 °C.

**Temperature Rating:** 90 °C **Voltage Rating:** 600 V

**Reels:** Provide cables specified below on 19 each non-returnable reels, all of same size, with size pre-

approved by LIGO.

(approx.)

**Required Lengths:** All lengths  $\pm 1.5\%$ :

Designation	Cable length ft	No. of cables	No. cables per reel	No. of reels	Total length ft
Return A	1,922	4	1	4	7,688
Return B	1,781	4	1	4	7,124
Return C	1,870	4	1	4	7,480
Return D	2,011	4	1	4	8,044
PS1*	105	8	8	1	840
PS2*	235	8	8	1	1,880
Spare	1,000	1	1	1	1,000
Total length					34,056

\*Eight PS1 cables wound in parallel on one reel. At supplier's option, each PS1 cable may be furnished on one reel of smaller size, 8 reels total. PS2 to be similarly supplied.