



NOTES

1. Item: Cable, Special Purpose, Electrical
2. Description: Insulated stranded conductors in twisted pair configuration
  - 2.1 Conductors: Each insulated conductor shall be in accordance with MIL-W-16878/14, Crosslinked Polyethylene (XLPE), 125°C, 600V.
  - 2.2 Conductor Size: No. 24 AWG (19 x 36 stranding)
    - 2.2.1 7 x 32 stranding is an acceptable second choice.
  - 2.3 Number of Conductors: Two
  - 2.4 Color Coding: Conductor pairs are color coded. See Table I.
  - 2.5 Cable Construction: The insulated conductors shall be twisted with two twists per inch, nominal.
  - 2.6 Nominal Impedance: 100 ohms
  - 2.7 Capacitance Between Conductors (at 1 KHz): 16 picofarads per foot nominal
3. Marking: The cable shall be marked with the manufacturer's identification, the manufacturer's part number, and other marking information normally supplied. Package marking is acceptable in lieu of cable marking.
4. Workmanship: Uniformity of shape and performance shall permit interchangeability of the cable. There shall be no kinks, splints, cuts, cracks, abrasions or other injurious defects. Individual conductors in the cable shall be mechanically secure and electrically continuous and shall be free from any imperfections which can affect their serviceability.
5. Lot Conformance Testing: The manufacturer shall be responsible for assuring compliance to all the requirements of this drawing. Minimum testing on each lot shall consist of the following:
  - a. Visual (workmanship, conductors)
  - b. Electrical Continuity (conductors within cable)

	SIZE A	CAGE 67032	DRAWING NO. 19-2728680
	SCALE: NONE	REV. A	SHEET 2

6. **Packaging and Packing:** The cable shall be suitably packaged and packed to avoid damage during shipment, handling and storage and to be easily unpacked without damage.
7. **Suggested Source(s) of Supply**
- a) **Pacer Electronics Corp.**  
Woburn, MA 01801-5205
- CAGE No.: 6S807
- Manufacturer's Part No.: See Table I
- b) **FJC Electronics Co.**  
500 Main St.  
Clinton, MA 01510
- CAGE No.: 1CA37
- Manufacturer's Part No.: See Table I
- c) **Colonial Wire & Cable Co.**  
1221 Westford St.  
Lowell, MA 01851
- CAGE No.: None Available
- Manufacturer's Part No.: See Table I
8. **Procuring Activity Part No.:** See Table I
9. **Identification of the Suggested Source(s) of Supply** hereon is not to be construed as a guarantee of present or continued availability as a source of supply for the cable.
10. **Ordering Information:** Cable length shall be as specified in the purchase order.

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**TABLE I**

PROCURING ACTIVITY PART NO. 19-2728680	COLOR CODING	MANUFACTURER'S * PART NO.
-1	WHT	16878/14BEE09TWPR
	BLK	
-2	BRN	16878/14BEE01TWPR
	BLK	
-3	RED	16878/14BEE02TWPR
	BLK	
-4	ORN	16878/14BEE03TWPR
	BLK	
-5	YEL	16878/14BEE04TWPR
	BLK	
-6	GRN	16878/14BEE05TWPR
	BLK	
-7	BLU	16878/14BEE06TWPR
	BLK	
-8	VIO	16878/14BEE07TWPR
	BLK	
-9	GRA	16878/14BEE08TWPR
	BLK	

\* IF ACCEPTABLE SECOND CHOICE OF 7 x 32 STRANDING IS USED,  
MANUFACTURER'S PART NO. WOULD THEN BE 16878/14BEB\_\_ TWPR

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			SHEET 4