

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

PART NO.	SUGGESTED SOURCES OF SUPPLY	
001	Specialty Cable Corp. 2 Tower Drive Wallingford, CT 06492 Cage Code: 60685	PMC Wire and Cable 680 Hayward Street Manchester, NH 03103 Cage Code 61123

SPECIFICATION CONTROL DRAWING

IDENTIFICATION OF THE SUGGESTED SOURCE OR SOURCES OF SUPPLY HEREIN IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM OR ITEMS.

PROPRIETARY

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UNLESS OTHERWISE SPECIFIED USE APPLIED PRACTICES 2H2300 ALL MACHINED SURFACES	DECIMAL TOLERANCES 2 PLACE .25 INCH OR LESS ± .01 2 PLACE OVER .25 INCH ± .02 3 PLACE ± .005 ANGLES ± 1°	RELEASED FOR ENGINEERING DEVELOPMENT	PROJECT ENGR	—	—
STD		ISSUED FOR PRE-PRODUCTION	PROJECT ENGR	—	—
MFG <i>ML Ludham</i>	<i>6/29/00</i>	ISSUED FOR PRODUCTION	MFG ENGR	—	—
R&QA <i>ML Ludham</i>	<i>6/29/00</i>				
ADD CONTRACT #	ADDITIONAL APPROVALS	DATE	CONFIGURATION LEVEL	APPROVALS	REV DATE
SEE SEPARATE PARTS LIST (FOR ASSEMBLY DWGS ONLY)		DIST TO			
FOR AMETEK USE ONLY	CONTRACT NO.		AMETEK® AEROSPACE WILMINGTON, MA 01887		
ABBR CA	APPROVALS	DATE			
MODEL 8EH28	DRAWN Typing	6/22/00	TITLE LOW NOISE TREATED 2 CONDUCTOR, SHIELDED CABLE		
MATERIAL	CHECKED <i>[Signature]</i>	6/27/00			
	ISSUED <i>[Signature]</i>	6/29/00	SIZE A	CAGE CODE 97424	DWG NO. 1942A80
	ENGR <i>[Signature]</i>	6/28/00			REV —
W971942A80.doc	RDA/ECO 9126		SCALE NONE	WEIGHT	SHEET 1 OF 2

SCOPE:

This drawing defines a two conductor, twisted pair, noise treated, shielded cable.
 Note: This cable construction is similar to AMETEK drawing number 600800-00

DESCRIPTION:

1. Conductors: 20 AWG (19 strands of 32 AWG) silver plated annealed copper wire, 0.035 dia., nominal.
2. Primary Low Noise Barrier (on Teflon TFE bases).
3. Primary Insulation: Taped and sintered TFE, 0.010 wall thickness, 0.061 dia. nominal.
4. Secondary Low Noise Barrier on TFE bases, 0.072 diameter nominal.
5. Cable Lay Up: 2 conductors twisted with a left hand length of lay of 1½.
6. Conductor Insulation Colors: red and white.
7. Tertiary low noise barrier on TFE bases applied over the twisted pair, 0.160 diameter nominal.
8. Shield: Braided annealed copper wires, 38 AWG, 90% coverage, nickel (NI) plated. 0.170 dia. nominal. Braid Angle: 20° + 10°/-5°
9. Jacket: Cross wrapped and sintered TFE tape, color red. Overall cable diameter .171.21 inch.

SPECIFICATIONS:

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|----|---------------------------------------|--|--|
| 1. | Capacity: | Conductor to Conductor at Ambient:
Conductor to Shield at Ambient:
Conductor to Conductor at +500°F:
Conductor to Shield at +500°F: | 70pF/Ft Nominal
140pF/Ft Nominal
68pF/Ft Nominal
135pF/Ft Nominal |
| 2. | Insulation Resistance:
With 50 VDC | Conductor to Conductor at Ambient:
Conductor to Shield at Ambient:
Conductor to Conductor at +50°F:
Conductor to Shield at +500°F: | 20 Giga Ohms-Ft Min.
20 Giga Ohms-Ft Min.
20 Giga Ohms-Ft Min.
20 Giga Ohms-Ft Min. |
| 3. | Weight: | 32 Lbs. Per 1000 Feet. | |
| 4. | Noise Level: | When tested differentially between conductors, not to exceed 1.0 pC pk- pk. | |

SIZE A	CAGE CODE 97424	DWG 1942A80	REV —	SHEET 2
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