



*"Our success depends on
your satisfaction."*

X3T10/94-071R0

SCSI CABLE VARIATIONS FOR SFF CONSIDERATION

- . **OVAL SHAPED CABLE WITH 80 OHM SE IMPEDANCE.
CURRENTLY CONSIDERED BY IBM-BOCA AS A PCMCIA
SOLUTION. SUPPORTED BY MOLEX CONNECTOR
SOLUTION.**

C&M Cable #56025

- . **MINIATURIZED ROUND SCSI WITH 80 OHM SE ELECTRICALS.
PART OF A ROUND CABLING SOLUTION OFFERED BY
HARBOR/BERG IN PCMCIA APPLICATIONS. THE BENEFITS
ARE LOWER COST THAN OVAL, BETTER FLEXIBILITY IN
EACH AXIS OF ORIENTATION, AND LESS PROCESS LABOR
AT MOLD.**

C&M Cable #0233P

Bob Gannon

May 13, 1994

BG:PMK:3182D

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CABLE SPECIFICATION

REVISION STATUS SHEET

REVISION LEVEL	DRAWN BY	DATE	APPROVED BY	DATE	DESCRIPTION/NOTES
A	DLD	Apr. 12 1994	<i>JCA</i>	4/12/94	Initial release
					<p>PROPRIETARY INFORMATION This spec can only be duplicated with expressed written permission from the C & M Corporation</p>

DRAWN BY DLD	DATE 4-12-94	C&M PART NUMBER 25/2-8HPF307B33TC06/PPFAM/Sp/J25		
CHECKED BY <i>JCA</i>	CATALOG NUMBER 0233P	REV: A	Sheet 1 of 3	



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CABLE SPECIFICATION

1.0 SCOPE: This specification establishes a description for a 25 twisted pair, shielded, and jacketed cable.

2.0 PRIMARIES:

- 2.0.1 NUMBER REQUIRED: 50
- 2.0.2 CONDUCTOR AWG: #30 (7/38) tinned copper
- 2.0.3 INSULATION TYPE: Foamed High Density Polyethylene
- 2.0.4 PRIMARY O.D.: .024" +/- .001"

2.1 TWISTED PAIRS:

- 2.1.1 NUMBER REQUIRED: 25 pairs of primaries as listed above
- 2.1.2 LAY DIRECTION: Left hand, staggered lengths
- 2.1.3 TWISTED PAIR COLOR CODE:

1. White-tan paired with tan-white
2. White-brown paired with brown-white
3. White-pink paired with pink-white
4. White-orange paired with orange-white
5. White-yellow paired with yellow-white
6. White-green paired with green-white
7. White-blue paired with blue-white
8. White-violet paired with violet-white
9. White-gray paired with gray-white
10. Tan-brown paired with brown-tan
11. Tan-pink paired with pink-tan
12. Tan-orange paired with orange-tan
13. Tan-yellow paired with yellow-tan
14. Tan-green paired with green-tan
15. Tan-blue paired with blue-tan
16. Tan-violet paired with violet-tan
17. Tan-gray paired with gray-tan
18. Brown-pink paired with pink-brown
19. Brown-orange paired with orange-brown
20. Brown-yellow paired with yellow-brown
21. Brown-green paired with green-brown
22. Brown-blue paired with blue-brown
23. Brown-violet paired with violet-brown
24. Brown-gray paired with gray-brown
25. Pink-orange paired with orange-pink

PROPRIETARY INFORMATION

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CHECKED BY <i>Jee</i>	CATALOG NUMBER 0233P	REV: A	Sheet 2 of 3	



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CABLE SPECIFICATION

- 2.2 CABLE:
- 2.2.1 COMPONENTS: 25 pairs of primaries as listed in 2.1 - 2.1.3
 - 2.2.2 LAY DIRECTION: Left hand
 - 2.2.3 INNER TAPE: Foamed polypropylene
 - 2.2.4 TAPE COVERAGE: 100% with 25% minimum overlap
 - 2.2.5 OUTER TAPE: Aluminum polyester, aluminum side out
 - 2.2.6 TAPE COVERAGE: 100% with 25% minimum overlap

- 2.3 SHIELD:
- 2.3.1 SHIELD TYPE: Spiral
 - 2.3.2 SHIELD AWG: #38 Tinned copper
 - 2.3.3 SHIELD COVERAGE: 85% minimum

PROPRIETARY INFORMATION
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- 2.4 JACKET:
- 2.4.1 JACKET INSULATION TYPE: Polyvinyl chloride
 - 2.4.2 JACKET WALL THICKNESS: .025" nominal
 - 2.4.3 FINAL O.D.: .313" +/- .010"
 - 2.4.4 JACKET COLOR: Dec 068 Gray

- 3.0 ELECTRICALS:
- 3.0.1 IMPEDANCE: 80 Ohms +/- 8 Ohms, Single-Ended

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CHECKED BY <i>K.A.</i>		CATALOG NUMBER	REV:	Sheet 3 of 3
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CABLE SPECIFICATION

REVISION STATUS SHEET

REVISION LEVEL	DRAWN BY	DATE	APPROVED BY	DATE	DESCRIPTION/NOTES
A	DLD	Nov. 15 1993	<i>JCA</i>	11/15/93	Initial release
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DRAWN BY DLD	DATE 11-15-93	C&M PART NUMBER 56025-C-050/(4P)dAMJ28
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CABLE SPECIFICATION

1.0 SCOPE: This specification establishes a description for a 25 pair, mixed construction, jacketed parallel cable.

2.0 PRIMARIES:

2.0.1 NUMBER REQUIRED: 50

2.0.2 CONDUCTOR AWG: #30 (7/38) Tinned copper

2.0.3 INSULATION TYPE: Foamed polyethylene

2.0.4 PRIMARY O.D.: .024" +/- .002"

PROPRIETARY INFORMATION
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2.1 TWISTED PAIRS:

2.1.1 NUMBER REQUIRED: 25 pairs of primaries as listed above

2.1.2 LAY DIRECTION: Left hand, staggered lengths

2.1.3 TWISTED PAIR COLOR CODE: See Table I

2.2 CABLE 1, 2, & 4:

2.2.1 COMPONENTS: 18 pairs of primaries as listed in 2.0 - 2.1.3, separated into three separate cables consisting of 6 pairs each

2.2.2 LAY DIRECTION: Left hand

2.2.3 FILLER: As required for roundness

2.3 CABLE 3:

2.3.1 COMPONENTS: 7 pairs of primaries as listed in 2.0 - 2.1.3

2.3.2 LAY DIRECTION: Left hand

2.3.3 FILLER: As required for roundness

2.4 JACKET:

2.4.1 COMPONENTS: Cables 1, 2, 3, & 4 brought in parallel

2.4.2 DRAIN: #26 (7/34) Tinned copper, parallel under the tape

2.4.3 TAPE: Aluminum polyester, aluminum side in

2.4.4 TAPE COVERAGE: 100% with 20% nominal overlap

2.4.5 JACKET INSULATION TYPE: Polyvinyl chloride

2.4.6 FINAL O.D.: .180" +/- .010" on the minor dimension
.540" +/- .010" on the major dimension

2.4.7 JACKET COLOR: Black, matte finish

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CABLE SPECIFICATION

TABLE I

CABLE #1 Color code:

1. Orange-blue paired with blue-orange
2. White paired with red
3. Yellow paired with gray
4. Blue paired with brown
5. Black paired with orange
6. White-blue paired with blue-white

CABLE #2 Color code:

1. White-gray paired with gray-white
2. White-red paired with red-white
3. White-yellow paired with yellow-white
4. Blue paired with brown
5. Black paired with orange
6. White-brown paired with brown-white

CABLE #3 Color code:

1. Yellow-gray paired with gray-yellow
2. Yellow-brown paired with brown-yellow
3. Yellow-black paired with black-yellow
4. Yellow-red paired with red-yellow
5. Orange-black paired with black-orange
6. Orange-brown paired with brown-orange
7. Orange-gray paired with gray-orange

CABLE #4 Color code:

1. Green paired with violet
2. White-black paired with black-white
3. White-orange paired with orange-white
4. White-green paired with green-white
5. White-violet paired with violet-white
6. Yellow-green paired with green-yellow

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CHECKED BY	<i>JCA</i>			CATALOG NUMBER	REV:	Sheet
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