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
<table>
<thead>
<tr>
<th>REVISION LEVEL</th>
<th>DRAWN BY</th>
<th>DATE</th>
<th>APPROVED BY</th>
<th>DATE</th>
<th>DESCRIPTION/NOTES</th>
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<td>A</td>
<td>DLD</td>
<td>Apr.12</td>
<td>1994</td>
<td>4/14</td>
<td>Initial release</td>
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**PROPRIETARY INFORMATION**

This spec can only be duplicated with express written permission from the C & M Corporation.
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
20. Brown-yellow paired with yellow-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
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

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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**CABLE SPECIFICATION**

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**C & M Corporation**

14C

"Our success depends on your satisfaction."
# CABLE SPECIFICATION

## REVISION STATUS SHEET

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<th>REVISION LEVEL</th>
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<th>APPROVED DATE</th>
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<td>A</td>
<td>DLD</td>
<td>Nov. 15, 1993</td>
<td>1/1/1993</td>
<td>Initial release</td>
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**PROPRIETARY INFORMATION**

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**DRAWN BY**: DLD  
**DATE**: 11-15-93  
**C&M PART NUMBER**: 56025-C-050/(4P)dAMJ28  
**CHECKED BY**:  
**CATALOG NUMBER**: P-56025  
**REV.**: A  
**Sheet**: 1 of 3

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51 South Walnut St., P.O. Box 348  
Wauregan, CT 06387  
Phone (203) 774-6812  
FAX 203-774-7330
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"

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

56025-C-050/(4P)dAMJ28

P-56025
# TABLE 1

**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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