_			
	REVISIONS		
LTR	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE PER ECN T-6656	06-11-86	IM
A	REVISED PER ECN T-7140	10-30-86	IM
В	REVISED PER ECN T-7302	01-05-87	IM
C	REVISED PER ECN T-7637	4/9/87	da-
D	REVISED PER ECN T-18355	7-15-93	PO

### INTERCONNECTION SYSTEMS DIVISION ENGINEERING STANDARD

ES 61401

LABEL SPECIFICATION DATA BUS PRODUCT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN	KK 6-18-86	B	vohom		RAYCHEM CORPORATION
AND TOLERANCES ARE: .XXX: ±	CHECKED	PP 7-16-93		ychem		300 CONSTITUTION DRIVE MENLO PARK, CALIFORNIA 9402
± : XX. ± :	APPROVED	bury 19/87	TITLE	ENGI	NEERING S	TANDARD
MATERIAL	APPROVED		]	LABE	L SPECIFI	CATION
	APPROVED		1	DAT	A BUS PRO	IDUCT
INISH	PART NO.		SIZE A	CODE IDENT.	DWG. NO.	ES 61401
•	PROJECT		SCALE	WE	GHT	SHEET 1 OF 9

LABEL	SPECIFICATION	

DATA BUS PRODUCT

ES 61401, Rev. D DWG. NO.

2 OF 9 SHEET

Raychem

Raychem Corporation 300 Constitution Drive Menio Park, California 94025

TITLE

**REVISION REFERENCE PAGE** 

LABEL SPECIFICATION DATA BUS PRODUCT

5 C

6 C

7 C

8 C

9 C

Sheet	No.
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1 C

2 C

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H02074 10/79

#### LABEL SPECIFICATION

DATA BUS PRODUCT

ES	61401,	
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Rev. D

3 OF 9

SHEET

Raychem

DWG. NO.

Raychem Corporation 300 Constitution Drive Menlo Park, California 94025

#### TITLE

#### 1. **SCOPE**

1.1 This specification covers the general requirements for the labels used in multiplexed data bus couplers, terminators and other related products.

#### 2. **APPLICABLE DOCUMENTS**

- 2.1 Government Documents.
- 2.1.1 Specifications.

Military

MIL-STD-130F - Identification Marking of U.S. Military Property.

2.2 Other Documents. See Appendix A for individual specifications.

#### 2.3 <u>Order of Procedure</u>. In the event of a conflict between test of this specification and the references cited herein, the text of this specification shall take precedence.

#### 3. **REQUIREMENTS**

- 3.1 <u>Specification Sheets</u>. The individual item requirements shall be as specified herein and in accordance with the applicable specification sheets. In the event of any conflict between requirements of this specification and the individual specification, the latter shall govern. The following information shall appear on each individual specification sheet:
  - a. Raychem part number.
  - b. Overall dimensions.
  - c. Label content.
  - d. Location of information.
  - e. Any other requirements in addition to or different from this specification.
- 3.2 <u>Materials</u>. Materials shall be as specified herein. However, when a definite material is not specified, material shall be used which will enable the labels to meet the performance requirements of this specification and the applicable individual specification (see 3.1). Acceptance or approval of any constituent material shall not be construed as a guarantee of acceptance of the finished product.
- 3.2.1 <u>Label</u>. Label shall be made with silver Mylar<sup>™</sup> (polyester) with permanent pressure-sensitive adhesive backing.

LABEL SPECIFICATION	<b>ES 61401, Rev.</b> D	4 . OF 9
	DWG. NO.	SHEET
DATA BUS PRODUCT	Raychem	Corporation

Raychem

300 Constitution Drive Menlo Park, California 94025

TITLE

- 3.2.2 <u>Carrier</u>. Carrier medium shall be die-cut for release backing with computer pin feed and perforated for fan folding. The minimum distance from the left sprocket hole to right sprocket hole shall be 1.5 inches.
- 3.2.3 Finish. Label shall be coated with matte-finish-writable coating.
- 3.2.4 <u>Material Thickness.</u> Label shall be .003-.005 inch thick including the finish coating.
- 3.2.5 Suggested Source of Supply. Labels shall be obtained from:

CelloTape Corp. (Cage Code 8J977) 48633 Warm Springs Blvd. Fremont, California 94539

Part Numbers: Constructed from Flexcon, Comucal II, MM-200-SM, MT/C-329123, SP50K-S or Constructed from Flexcon, MM-200-S, T/C-200L23, SP50K-8 laminated to Flexcon, Compucal II, PM-200-C, MT/C-329L23, SP50K-8

#### 3.3 <u>General Marking.</u>

- 3.3.1 <u>Label Spacing</u>. Label spacing on the carrier paper shall be such that the distance from the top edge of one label to the top of the following label shall be based on eight lines per inch, computer printer spacing.
- 3.3.2 <u>Character Height.</u>

Part Description (data bus coupler, etc.): .063 inch Connector Number (J1, J2, etc.): .060 inch Connector Description (stub, bus, A, B, etc.): .050 inch

#### LABEL SPECIFICATION

DATA BUS PRODUCT

ES 61401, Rev. D

SHEFT

## Raychem

DWG. NO.

**Raychem Corporation** 300 Constitution Drive Menlo Park, California 94025

TITLE

- 3.3.3 <u>Type of Lettering</u>. Type of lettering shall be in accordance with MIL-STD-130F, paragraph 4.10.
- 3.3.4 <u>Logo.</u> Standard Raychem logo shall be used. Consult Raychem purchasing organization for artwork.
- 3.3.5 Corner Radii. The labels shall have .06-inch minimum corner radii.
- 3.3.6 Date Code.
- 3.3.6.1 <u>Location</u>. The location of date code shall be shown as "YYWW" on the label specification.
- 3.3.6.2 <u>Information.</u> The "YY" of the date code shall be the last two digits of the year of manufacture. The "WW" of the date code shall be the number of weeks since the beginning of the year of manufacture.
- 3.3.6.3 <u>Application Technique</u>. The date code shall be typed on the label using a dot matrix printer or typewriter. The preferred technique shall be the former.
- 3.3.6.4 Size. The size of characters shall be as follows:

Dot matrix printer:

Nom. height: .10 inch Pitch: 17 characters per inch

Typewriter:

Gothic style; 12 pitch

	LABEL SPECIFICATION	ES 61401, I	Rev.D	6. OF 9
		DWG. NO.		SHEET
TITLE	DATA BUS PRODUCT	Raychem	Raychem C 300 Constitu Menlo Park,	

- 3.3.6.5 <u>Application Activity</u>. The date code shall be printed or typed by Raychem at the time of manufacture or at a convenient time thereafter prior to shipping of the product.
- 3.3.7 Lot Number.
- 3.3.7.1 Location. The location of lot number shall be shown as "XXXXXX" on the label specification.
- 3.3.7.2 <u>Information</u>. The "XXXXXX" shall be 6 digit numerical lot number assigned by Quality Assurance Organization.
- 3.3.7.3 Application Technique. Lot number shall be applied per paragraph 3.3.6.3.
- 3.3.7.4 Size. Size shall be per paragraph 3.3.6.4.
- 3.4 Performance.
- 3.4.1 <u>Permanency and Legibility</u>. Permanency and legibility shall be in accordance with MIL-STD-130F, paragraph 4.3.
- 3.4.2 <u>Deleterious Effect</u>. Materials used in the label shall not adversely affect the life and utility of the item which the label is used on.
- 3.4.3 Fluid Resistance. When samples are tested per Table I, there shall be no visual evidence of damage such as delamination, bubbles, crack, loss of information, etc., to the label.
- 3.5 <u>Workmanship</u>. Labels shall be processed in such a manner as to be consistent in quality; they shall be free of defects that would impair the proper function of label and appearance of the final product.

#### 4. QUALITY ASSURANCE PROVISIONS

Inspection and testing shall be performed per Raychem ISD standard operating procedures.

#### 5. NOTE

5.1 <u>Substitution of Material</u>. The following labels may be used when the material as specified in the individual label marking slash sheet ("Material Used" column) is not available. All preprinted information as shown on the material specified in the "Material Used" column must be typed on the approximate location in addition to the information normally to be typed per each slash sheet.

	LABEL SPECIFICATION	ES 61401 DWG. NO.	L, Rev. D 7 OF 9 SHEET
TITLE	DATA BUS PRODUCT	Raychem	<b>Raychem Corporation</b> 300 Constitution Drive Menlo Park, California 94025
5.1.1	D-095-13-01-07 may be used for:	D-095-13-01-03	· · ·
	·	D-095-13-01-04	
		D-095-13-01-09	
		D-095-13-01-28	
		D-095-13-01-29	
		D-095-13-01-30	
5.1.2	D-095-13-01-25 may be used for:	D-095-13-01-12	
0.1.2		D-095-13-01-15	
		D-095-13-01-16	
		D-095-13-01-17	
		D-095-13-01-18	
		D-095-13-01-27	
5.1.3	D 005 12 01 26 may be used for	D-095-13-01-19	
J.1.J	D-095-13-01-26 may be used for:	D-095-13-01-20	
		D-095-13-01-21	
		D-095-13-01-23	
		D-095-13-01-24	

## TABLE I. FLUIDS RESISTANCE TEST

Test Sequence	Test Fluid	Test Method
#1	Coolanol 25 Coolant*	Condition sample in oven at +135°C for 30 minutes. Then immerse sample for 5 minutes in the test fluid at room temperature. Drain sample for 1 hour minimum at room temperature. Repeat this test two more times.
#2	JP-4 Turbine Fuel	Condition sample in oven at +39°C for 30 minutes. Then immerse sample for 5 minutes in the test fluid at room temperature. Drain sample for 1 hour minimum at room temperature. Repeat this test two more times.
#3	JP-5 Turbine Fuel	Same as #2.
#4	JET-A1 Turbine Fuel	Same as #2.
#5	MIL-H-5606 Hydraulic Fluid	Same as #1.
#6	MIL-L-7808 Lubricating Oil	Same as #1.

\*Synthetic Silicate Ester Base Dielectric Fluid

## LABEL SPECIFICATION

DATA BUS PRODUCT

ES	61401,	Rev.	D

# OF 9

## Raychem

DWG. NO.

Raychem Corporation 300 Constitution Drive Menlo Park, California 94025

8

## APPENDIX A

#### INDIVIDUAL SPECIFICATION

## Part Number

## Applicable Slash Sheet

D- 500- 0251 D- 500- 0255- 000 D- 500- 0255- 000-M1 D- 500- 0255- 000-M2 D- 500- 0255- 000-M4 D- 500- 0255- 002 D- 500- 0255- 002 D- 500- 0255- 003 D- 500- 0255- 004 D- 500- 0255- 006 D- 500- 0255- 006 D- 500- 0255- 007 D- 500- 0255- 008 D- 500- 0255- 008 D- 500- 0255- 012 D- 500- 0255- 012 D- 500- 0255- 012 D- 500- 0255- 013 D- 500- 0255- 014 D- 500- 0255- 017 D- 500- 0255- 017 D- 500- 0255- 017 D- 500- 0255- 018 D- 500- 0255- 018 D- 500- 0255- 018 D- 500- 0255- 020 D- 500- 0255- 020 D- 500- 0255- 021 D- 500- 0255- 022 D- 500- 0255- 023 D- 500- 0255- 023 D- 500- 0255- 024 D- 500- 0255- 025 D- 500- 0255- 027 D- 500- 0255- 028 D- 500- 0255- 030 D- 500- 0255- 038-M1 D- 500- 0255- 038-M2 D- 500-

ES 61401/1 ES 61401/1 ES 61401/1 ES 61401/4 ES 61401/3
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H02074 10/79

LABEL SPECIFICATION	ES 61401, Rev.	D 9 0F 9
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DATA BUS PRODUCT	Ba	vchem Corporation

## Raychem

Raychem Corporation 300 Constitution Drive Menlo Park, California 94025

## APPENDIX A (Continued)

### INDIVIDUAL SPECIFICATION

### Part Number

TITLE

D-500-0255-415
D-500-0255-416
D-500-0255-600
D-500-0255-601
D-500-0255-604
D-500-0255-606
D-500-0255-607
D-500-0255-609
D-500-0255-610
D-500-0255-611
D-500-0256-001-M1
D-500-0256-001-M2
D-500-0263-000
D-500-0263-000
D-500-0263-002
D-500-0263-008
D-500-0263-012
D-500-0263-017
D-500-0263-037
D-500-0263-038-M1
D-621-0030
D-621-0101
D-621-0103
D-621-0104

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ES	61401/3
ES	61401/4
ES	61401/1
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ES	61401/1
ËŠ	61401/1
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ES	61401/5

Applicable Slash Sheet

H02074 10/79