

16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in **2**. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies that are not listed, describe and report them in the "Cost of all other materials . . ." at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . ." Census material code 009700 99 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Valuation of Materials Consumed - The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amount actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

Contract Work - Include all materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in **15**, line A5, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

Resales - Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in **15**, line A2, not in **16**. The value of these products shipped by this establishment should be reported in **2** under Census product code 000999 8900 6, "Resales."

INFORMATION COPY
 DO NOT USE TO REPORT

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
1	Fabricated metal products (excluding forgings)				
	Sheet metal products (excluding stampings)	332000 A9 9			
2	Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03 2			
3	Metal stampings	332000 AC 2			
4	Other fabricated metal products	332000 33 0			
5	Forgings	332100 01 5			
6	Castings (rough and semifinished)	331000 35 6			
	Shapes and forms (excluding castings, forgings, and fabricated metal products)				
7	Steel	331200 01 4			
8	Copper and copper-base alloy	331421 11 5			
9	Aluminum and aluminum-base alloy shapes and forms	331000 39 8			
10	Other nonferrous	331000 83 6			

33511080

CONTINUE WITH **16** ON PAGE 9

CONTINUE ON PAGE 9

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
11	Components for electronic circuitry, excluding tubes				
	Printed circuit boards	334412 00 4			
12	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	001900 C4 9			
13	Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	334413 00 2			
14	Capacitors	334414 00 0			
15	Resistors	334415 00 7			
16	Other components and accessories, nec (<i>Specify kind.</i>) ↘	001900 D3 0			
17	Industrial electrical control equipment	335314 05 0			
18	Insulated wire and cable (including magnet wire)	331000 A7 4			
19	Current-carrying wiring devices	335931 01 0			
20	Fractional horsepower electric motors (less than 1 hp)	335312 11 2			
21	Electronic communication equipment	334220 01 9			
22	Electrical instrument mechanisms and meter movements (including instrument relays)	334515 01 2			
23	Electronic computing equipment	334100 01 3			
24	Optical instruments and lenses (excluding sighting, tracking, and fire control)	333314 01 1			
25	Automatic garage door controllers	335999 00 9			
26	Fabricated plastics products (excluding gaskets, hoses, and belting)	326100 07 0			

CONTINUE WITH **16** ON PAGE 10

33511098

16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
27	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	322200 17 1			
28	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↘	009700 99 8			
29	TOTAL (Should equal total reported in 15, line A1)	771000 00 7			

17 Not Applicable.

18 TYPE OF OPERATION
(Mark "X" the ONE box that best describes the operation performed at this establishment during 2002.)

Type of manufacturing activity during 2002

- 0620 408 Producing bare wire and cable from wire drawn in this establishment
- 409 Producing insulated wire and cable from wire drawn in this establishment
- 410 Producing insulated wire and cable from purchased wire
- 376 Producing fabricated wire products (other than insulated wire and cable) from purchased wire
- 374 Producing fabricated wire products from wire drawn in this establishment
- 416 Producing apparatus wire and cord and flexible cord sets from purchased insulated wire
- 414 Producing apparatus wire and cord and flexible cord sets from wire insulated in this establishment
- 349 Producing fiber optic glass strand from glass sand, cullet, glass preforms, etc.
- 411 Producing insulated fiber optic cable from glass sand or cullet made into fiber optic glass strand at this establishment
- 415 Producing insulated fiber optic cable from purchased glass made into fiber optic glass strand at this establishment
- 417 Producing insulated fiber optic cable from purchased fiber optic glass strand

19-21 Not Applicable.

33511106

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

General - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of 2. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Valuation of Products - Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

Contract Work - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific product lines as if they were made by you in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" for printed circuit boards under Census code 000930 0031 3, printed circuit assemblies under Census code 000930 0032 1, and all other contract work receipts under Census code 000930 0014 9.

Resales - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census code 000999 8900 6, "Resales."

Detailed Data Reported Elsewhere - Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR form, the sum of the detailed products should equal the total reported on this form.

NOTE: Only totals are requested; do not duplicate detail reported on the CIR.

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
1	Capacitors for industrial use (except for electronic circuitry) Shunt and series power capacitors, units, and equipment, 1/2 kVA or more, and accessories	335999 1101 4			
2	Other capacitors (except electrolytic) including ac, general-purpose for motors, controls, and high-intensity discharge lighting	335999 1103 0			
3	Rectifying apparatus Semiconductor power conversion apparatus, except for electronic circuitry Semiconductor battery chargers Automotive	335999 3101 2			
4	Industrial and railroad	335999 3104 6			

CONTINUE WITH 2 ON PAGE 12

33511114

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
5	Rectifying apparatus - Continued Semiconductor power conversion apparatus, except for electronic circuitry - Continued Semiconductor high-voltage power supplies in excess of 2kV (except separate associated apparatus, such as controls, capacitors, switchgear, etc.) 100 kW or less	335999 3107 9			
6	More than 100 kW	335999 3111 1			
7	Uninterruptible power supply (UPS) systems	335999 3216 8			
8	All other ac to dc semiconductor power conversion apparatus, including computer supplies (<i>Specify kind.</i>) ↴ 	335999 3213 5			
9	Other rectifying (power conversion) apparatus, except for electronic circuitry (<i>Specify kind.</i>) ↴ 	335999 3219 2			
10	Other electrical equipment for industrial use, except for electronic circuitry Electrical coil windings	335999 6101 9			
11	Solenoids (except solenoid-actuated regulating valves)	335999 6104 3			
12	Surge suppressors	335999 6107 6			
13	Cathodic protection equipment	335999 6111 8			
14	Other miscellaneous electrical equipment for industrial use, nec, including electrical discharge equipment (<i>Specify kind.</i>) ↴ 	335999 6137 3			
15	Laser generator power supplies and components, including diode and nondiode laser sources (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	335999 7100 0			
16	All other laser systems and equipment (<i>Specify kind.</i>) ↴ 	335999 9100 8			
17	Ultrasonic equipment, except medical and dental (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	335999 A100 6			
18	Apparatus wire and cordage manufactured from purchased insulated wire, not made in nonferrous plants that draw wire	335999 B100 5			

CONTINUE WITH **23** ON PAGE 13

33511122

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
19	Electronic systems and equipment, nec, including automatic garage door openers and amplifiers (except audio, RF power, and video), except electric fireplace logs and electric trouble lights (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	335999 C110 3			
20	Electric fireplace logs	335999 C120 2			
21	Electric trouble lights	335999 C130 1			
22	All other miscellaneous electrical equipment and components (except for industrial use), nec				
	Electric gongs, chimes, bells, etc.	335999 E101 0			
23	Electric insect killers	335999 E203 4			
24	Electrical door openers, except garage door openers	335999 E305 7			
25	Electric insect repellent lamps	335999 E407 1			
26	Surge suppressors, designed for equipment operating on 110 - 120 volt circuits	335931 A142 1			
27	Photocopying equipment, including diffusion transfer, dye transfer, electrostatic, light and heat sensitive types, etc.	333315 3100 5			
28	Communication systems and equipment, except broadcast, but including microwave equipment such as transmitters, receivers, and amplifiers, cellular systems and equipment both analog and digital, electronic support equipment for communication systems, antenna systems, and space satellites (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334220 1100 8			
29	Broadcast, studio and related electronic equipment, except magnetic recording and reproducing heads (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Equipment, for 2002.)*	334220 2110 6			
30	Magnetic recording and reproducing heads including audio, video, digital, and instrumental (Corresponds to the value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334220 2120 5			
31	Alarm systems, including electric sirens and horns (marine, industrial and air raid), and security locking systems (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334290 1100 1			
32	Intercommunications systems, including inductive paging systems (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334290 3100 9			
33	Integrated microcircuits, including semiconductor networks, microprocessors, and MOS memories (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334413 1100 9			

CONTINUE WITH 22 ON PAGE 14

CONTINUE ON PAGE 14

33511130

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
34	Diodes and rectifiers (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334413 7100 3			
35	Printed circuit boards and assemblies (Report contract work receipts for work done by you for others on their own materials on lines 50 and 51.) Printed circuit (wiring) boards (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334412 0100 2			
36	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components) (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334418 A100 8			
37	Coils, transformers, and chokes for electronic circuitry (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334416 0100 3			
38	All other electronic components, nec, including delay lines, oscillators, static power supplies, electronic cable harnesses and cable assemblies, liquid crystal displays, magnetic cores, and sockets for electronic component insertion, excluding home antenna, auto antenna, antenna accessories and plotter controllers (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334419 E110 1			
39	Home antenna, auto antenna, and antenna accessories, sold separately (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334419 E120 0			
40	Plotter controllers (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334419 E130 9			
41	Process control instruments (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334513 0100 7			
42	Insulated wire and cable (except fiber optic) Telephone and telegraph wire and cable made of nonferrous metals from purchased wire (Corresponds to value of shipments reported on CIR Form MA335J, Insulated Wire and Cable, for 2002.)*	335929 J100 4			
43	Electronic wire and cable made from nonferrous metals from purchased wire (Corresponds to value of shipments reported on CIR Form MA335J, Insulated Wire and Cable, for 2002.)*	335929 G100 7			

CONTINUE WITH **22** ON PAGE 15

33511148

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
	All other products made in this establishment - <i>Specify and report each product with sales value of \$50,000 or more that cannot be assigned to one of the "listed products and services". For all remaining products, write "Other" and report a single total value.</i>				
44		18			
45		26			
46		34			
47		42			
48		59			
49		67			
	Contract work (Receipts for work done for others on their own materials)				
50	Printed circuit (wiring) boards	000930 0031 3			
51	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	000930 0032 1			
	All other receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>) ↴				
52		000930 0014 9			
	Miscellaneous receipts				
53	Receipts for research and developmental work	000999 8041 9			
54	Other miscellaneous receipts	000999 8098 9			
55	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 15, line A2.)	000999 8900 6			
56	TOTAL (<i>Should equal 4, line A</i>)	770000 0000 8			

23-27 Not Applicable.



33511155

28 ESTABLISHMENT ACTIVITIES

A. Indicate activities that were performed by this establishment or were performed for this establishment by another company during 2002.
(Mark "X" ALL that apply.)

This activity was performed -			
By this establishment	By another establishment of this company	By another company	Not at all
0921 <input type="checkbox"/>	8071 <input type="checkbox"/>	0941 <input type="checkbox"/>	0961 <input type="checkbox"/>
1. Product design/engineering			
2. Order fulfillment			
0923 <input type="checkbox"/>	8072 <input type="checkbox"/>	0943 <input type="checkbox"/>	0963 <input type="checkbox"/>
a. Bundling or kitting (combining multiple items into a prepackaged product)			
0924 <input type="checkbox"/>	8073 <input type="checkbox"/>	0944 <input type="checkbox"/>	0964 <input type="checkbox"/>
b. Pick and pack (taking goods from inventory and packaging them to fill orders).			
0925 <input type="checkbox"/>	8074 <input type="checkbox"/>	0945 <input type="checkbox"/>	0965 <input type="checkbox"/>
c. Warehousing of finished products			
0926 <input type="checkbox"/>	8075 <input type="checkbox"/>	0946 <input type="checkbox"/>	0966 <input type="checkbox"/>
d. Breaking bulk (reducing large shipments into smaller portions for customers)			
0927 <input type="checkbox"/>	8076 <input type="checkbox"/>	0947 <input type="checkbox"/>	0967 <input type="checkbox"/>
e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas)			
0928 <input type="checkbox"/>	8077 <input type="checkbox"/>	0948 <input type="checkbox"/>	0968 <input type="checkbox"/>
f. Long distance delivery (beyond local areas and commercial zones)			
0932 <input type="checkbox"/>	8078 <input type="checkbox"/>	0952 <input type="checkbox"/>	0972 <input type="checkbox"/>
g. Processing of returned merchandise			

B. During 2002 did this establishment:

- | | | |
|--|-----------------------------------|----------------------------------|
| 1. Manage inventory owned by this establishment AND held at this location? | 0936 <input type="checkbox"/> Yes | 0937 <input type="checkbox"/> No |
| 2. Manage inventory owned by this establishment BUT held at a customer's location? | 0956 <input type="checkbox"/> Yes | 0957 <input type="checkbox"/> No |
| 3. Manage inventory owned by another company BUT held at this location? | 0976 <input type="checkbox"/> Yes | 0977 <input type="checkbox"/> No |
| 4. Manage inventory owned by another company AND held somewhere other than at this location? | 0994 <input type="checkbox"/> Yes | 0995 <input type="checkbox"/> No |
| 5. Contract with another firm for any of your production using materials owned by this location? | 8041 <input type="checkbox"/> Yes | 8042 <input type="checkbox"/> No |
| 6. Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion? | 8044 <input type="checkbox"/> Yes | 8045 <input type="checkbox"/> No |
| 7. Manufacture products for a government to their specifications? | 8047 <input type="checkbox"/> Yes | 8048 <input type="checkbox"/> No |
| 8. Manufacture products for another business to their specifications? | 8016 <input type="checkbox"/> Yes | 8017 <input type="checkbox"/> No |
| 9. Manufacture products for a final retail customer to their specifications? | 8060 <input type="checkbox"/> Yes | 8062 <input type="checkbox"/> No |



33511163

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

29 OPERATIONAL STATUS

Activity that best describes this establishment's status at the end of 2002
(Mark "X" only ONE box.)

- 0011 In operation
- 0012 Under construction, development, or exploration
- 0013 Temporarily or seasonally inactive
- 0014 Ceased operation - Give date at right →
- 0015 Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴

0018	Month	Day	Year

0060 Name of new owner or operator		0061 Employer Identification Number		
		Enter EIN of new owner (9 digits) →		
0062 Mailing address (number and street, P.O. Box, etc.)				
0063 City, town, village, etc.		0064 State	0065 ZIP Code	

Remarks (Please use this space for any explanations that may be essential in understanding your reported data.)

30 CERTIFICATION - This report is substantially accurate and was prepared in accordance with the instructions.

Is the time period covered by this report a calendar year?

0078 Yes 0079 No - Enter time period covered →

FROM	Month	Year	TO	Month	Year
0070			0071		

0072 Name of person to contact regarding this report		0073 Title			

Telephone	Area code	Number		Extension	Fax	Area code	Number	
0074		-			0075		-	

0076 Internet e-mail address			Date completed	Month	Day	Year
			0069			

Thank you for completing your 2002 Economic Census form.
PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.

33511171