

Current Industrial Reports
U.S. Department of Commerce
Economics and Statistics Administration
Bureau of the Census

Insulated Wire and Cable - 1997

MA33L(97)-1

Issued October 6, 1998

Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1996 Manufacturing Profiles, issued July 1998.

Obtaining reports: Current data are released electronically on Internet for all individual surveys as they become available. Use <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the text (ASCII) file or PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, further information. The Internet address is : stat-usa.gov/.

For mail or fax copies of the publication, contact the Manufacturing and Construction Division Information Center, 301-457-4673.

Address inquires concerning these data to U.S. Department of Commerce, Bureau of the Census, Manufacturing and Construction Division, Washington,DC 20233, or call Mary W. Ellickson, 301-457-4736; e-mail [Mary W. Ellickson@ccmail.census.gov/](mailto:Mary.W.Ellickson@ccmail.census.gov/).

Summary of Findings: In 1997, the total value of manufactures' shipments of insulated wire and cable increased by 7 percent to \$19,540 million from \$18,234 million in 1996. Copper insulated wire and cable increased by 9 percent to \$11,169 from the 1996 level of \$10,225 million. In 1997 aluminum insulated wire and cable increased by 2 percent to \$3,962 from the 1996 level of \$3,892 million. Copper magnet wire decreased by 2 percent from the 1996 level of \$1,238 million to \$1,215 million in 1997. Aluminum magnet wire increased by 11 percent in 1997 to \$133 million from the 1996 level of \$120 million. In 1997 insulated optical fiber cable increased 7 percent to \$1,852 million from the \$1,728 million in 1996. Optical cable increased by 17 percent in 1997 to \$1,210 million from the 1996 level of \$1,031 million.

Table 1. Summary of Shipments of Insulated Wire and Cable: 1997 and 1996
 [Value in thousands of dollars]

| Product code | Product description | 1997 | 1996 |
|--------------|--|------------|------------|
| | Insulated wire and cable | 19,539,959 | 18,234,251 |
| 3357A -- | Electronic wire and cable | 2,747,996 | 2,544,194 |
| 3357B -- | Telephone and telegraph wire and cable | 2,224,550 | 2,075,275 |
| 33578 -- | Power wire and cable | 1,561,193 | 1,487,776 |
| 33578 6 - | Portable power cable | 70,573 | 95,276 |
| 3357C -- | Control and signal wire and cable | 280,368 | 247,658 |
| 3357D -- | Building wire and cable | 2,933,996 | 2,492,797 |
| 33576 -- | Apparatus wire and cordage | 810,254 | 812,295 |
| 3357E -- | Other insulated wire and cable | 539,779 | 469,657 |
| 3357- pt. | Aluminum insulated wire and cable | 3,962,426 | 3,891,547 |
| 33577 -- | Magnet wire | 1,347,539 | 1,358,975 |
| 33579 -- | Insulated optical fiber cable | 1,851,613 | 1,727,980 |
| 32318-- | Optical fiber | 1,209,672 | 1,030,821 |

pt. Part.

Table 2. Shipments of Copper Insulated Wire and Cable: 1997 and 1996
 [Shipments in thousands of pounds. Value in thousands of dollars]

| Product code | Product description | Shipments, including interplant transfers 1/ | | | | | |
|--------------|---|--|-------------------|------------|-------------|-------------------|--------------|
| | | 1997 | | | 1996 | | |
| | | No. of cos. | Copper content 2/ | Value | No. of cos. | Copper content 2/ | Value |
| 3357 pt. | Insulated wire and cable (except magnet wire and optical wire) | (NA) | 2,810,090 | 11,168,709 | (NA) | 2,561,191 | 10,224,928 |
| 3357A -- | Electronic wire and cable | 82 | 235,747 | 2,747,996 | 85 | 202,491 | 2,544,194 |
| | Coaxial cable, armored or unarmored: | | | | | | |
| 3357A 10 | Rigid | 4 | 640 | 4,383 | 4 | r/ 624 | 4,547 |
| 3357A 12 | Semi rigid | 14 | 31,339 | 479,532 | 14 | 26,748 | 460,868 |
| | Flexible: | | | | | | |
| 3357A 13 | 135 C and over | 13 | 3,779 | 66,793 | 13 | 3,714 | 59,116 |
| 3357A 14 | Under 135 C | 28 | 27,635 | 419,666 | 28 | r/ 23,649 | 401,491 |
| 3357A 16 | CATV/broad cast coaxial cable | 7 | (D) | (D) | 7 | (D) | (D) |
| 3357A 22 | Antenna lead-in wire | 7 | (D) | (D) | 6 | (D) | (D) |
| | Hookup wire (single conductor, shielded and non shielded): | | | | | | |
| 3357A 23 | 135 C and over temperature rating | 24 | 19,033 | 247,814 | 25 | 12,014 | r/ 188,451 |
| 3357A 25 | Under 135 C temperature rating | 39 | 20,000 | 103,505 | 40 | 17,024 | 83,353 |
| | Multiconductor electronic wire and cable (shielded and non shielded): | | | | | | |
| 3357A 30 | Flat and ribbon cable | 21 | 8,297 | 97,031 | 21 | r/ 6,933 | r/ 82,245 |
| | Other multiconductor electronic wire and cable: | | | | | | |
| | Shielded: | | | | | | |
| 3357A 31 | 135 C and over temperature | 18 | 32,308 | 252,888 | 19 | 26,445 | 233,282 |
| 3357A 33 | Under 135 C temperature rating | 33 | 33,151 | 277,797 | 35 | r/ 31,126 | 244,941 |
| | Non shielded: | | | | | | |
| 3357A 35 | 135 C and over temperature rating | 11 | 11,320 | 127,869 | 12 | 10,504 | 115,663 |
| 3357A 37 | Under 135 C temperature rating | 29 | 34,414 | 206,935 | 31 | 33,314 | 201,120 |
| 3357B -- | Telephone and telegraph wire and cable | 28 | 501,335 | 2,224,550 | 30 | 497,063 | 2,075,275 |
| 3357B 41 | Jumper and distributing frame wire | 7 | (D) | (D) | 7 | (D) | (D) |
| 3357B 43 | Station wire and cable | 15 | 19,380 | 156,006 | 17 | r/ 17,299 | r/ 129,317 |
| 3357B 48 | Telephone cord sets and cordage | 5 | (D) | (D) | 5 | (D) | (D) |
| 3357B 52 | Inside wiring cable | 18 | 79,428 | 488,474 | 19 | 74,256 | 440,381 |
| 3357B 55 | Drop and bridle and duct wire | 4 | 55,049 | 218,508 | 4 | 49,028 | 195,854 |
| 3357B 68 | Rural and urban distribution wire and cable | 3 | (D) | (D) | 3 | (D) | (D) |
| 3357B 73 | Polyethylene covered exchange area and toll cable (PIC and PULP insulated) | 7 | 283,302 | 1,004,244 | 8 | 297,067 | 983,719 |
| 3357B 90 | Other telephone and telegraph wire and cable | 8 | (D) | (D) | 7 | (D) | (D) |
| 33578 -- | Power wire and cable | 24 | 267,344 | 1,561,193 | 25 | r/ 266,342 | r/ 1,487,776 |
| 33578 07 | Paper insulated cable (all voltages, all types) | 2 | (D) | (D) | 2 | (D) | (D) |
| | Plastic and rubber insulated: | | | | | | |
| | 600 volts or less: | | | | | | |
| 33578 08 | Portable welding cable | 7 | 14,811 | 42,368 | 7 | r/ 15,368 | r/ 44,615 |
| 33578 17 | Underground distribution cable (UD, URD) | 8 | 7,470 | 297,569 | 10 | 7,443 | 274,393 |
| 33578 19 | Thermoplastic insulated power cable | 10 | 16,532 | 47,204 | 12 | 17,826 | 46,326 |
| | Thermoset insulated: | | | | | | |
| 33578 20 | Armored, rubber and cross linked | 6 | 9,674 | 28,606 | 6 | 9,476 | 27,603 |
| 33578 21 | Unarmored, rubber | 6 | 34,712 | 136,482 | 7 | 34,609 | 129,145 |
| 33578 22 | Unarmored, cross linked | 8 | 11,230 | 34,528 | 9 | 14,904 | 40,098 |
| 33578 23 | Rubber (R, RH, RHH, RHW, USE, etc.) | 2 | (D) | (D) | 3 | (D) | (D) |
| 33578 25 | Weatherproof cable | 5 | (D) | (D) | 4 | (D) | (D) |
| | Service drop cable: | | | | | | |
| 33578 27 | Thermoset insulated | 4 | (D) | (D) | 3 | (D) | (D) |
| 33578 28 | Thermoplastic insulated | 3 | (D) | (D) | 3 | (D) | (D) |
| | Over 600 volts: | | | | | | |
| 33578 37 | Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed) | 7 | 55,664 | 376,563 | 7 | 50,738 | 333,325 |

Table 2. Shipments of Copper Insulated Wire and Cable: 1997 and 1996
 [Shipments in thousands of pounds. Value in thousands of dollars]

| Product code | Product description | Shipments, including interplant transfers 1/ | | | | | |
|--------------|--|--|-------------------|-----------|-------------|-------------------|--------------|
| | | 1997 | | | 1996 | | |
| | | No. of cos. | Copper content 2/ | Value | No. of cos. | Copper content 2/ | Value |
| 33578 39 | Thermoplastic insulated power cable, excluding underground | 5 | (D) | (D) | 5 | (D) | (D) |
| | Thermoset insulated power cable, excluding underground over 600 volts to 15 kV: | | | | | | |
| 33578 41 | Armored, rubber and cross-linked | 6 | 13,242 | 58,222 | 7 | 15,247 | 59,439 |
| 33578 42 | Unarmored, rubber | 7 | 48,897 | 160,618 | 7 | 48,176 | 187,249 |
| 33578 43 | Unarmored, cross-linked | 7 | 16,792 | 55,710 | 8 | 15,661 | 49,843 |
| 33578 44 | Over 15 kV (rubber and cross-linked) | 5 | 5,028 | 34,817 | 4 | 4,453 | 32,716 |
| 33578 50 | Other power wire and cable | 8 | 13,341 | 99,987 | 7 | r/ 12,874 | r/ 84,568 |
| 33578 6- | Portable power cable | 7 | 19,700 | 70,573 | 8 | r/ 24,311 | r/ 95,276 |
| 33578 61 | 2 kV or less | 6 | (D) | (D) | 8 | r/ 16,273 | r/ 67,051 |
| | Over 2 kV: | | | | | | |
| 33578 62 | Portable cross linked jacketed cable (mine shovel cable) | 3 | (D) | (D) | 4 | (D) | (D) |
| 33578 63 | Portable non-cross linked jacketed cable | 33 | (D) | (D) | 2 | (D) | (D) |
| 3357C -- | Control and signal wire | 27 | 43,349 | 280,368 | 28 | 39,608 | 247,658 |
| 3357C 11 | Signal wire and cable | 16 | 16,584 | 155,996 | 17 | 14,813 | 132,092 |
| | Control wire and cable, excluding elevator cable: | | | | | | |
| 3357C 14 | Thermoset insulated | 9 | 9,518 | 51,286 | 9 | r/ 9,128 | 51,875 |
| 3357C 17 | Thermoplastic insulated | 18 | 17,247 | 73,086 | 18 | 15,667 | 63,691 |
| 3357D -- | Building wire and cable | 23 | 1,389,773 | 2,933,996 | 24 | 1,172,301 | r/ 2,492,797 |
| | Building wire and cable having underwriters' labels: | | | | | | |
| | Thermoset insulated: | | | | | | |
| 3357D 37 | Cross-linked polyethylene (XHHW) | 12 | 43,102 | 129,196 | 13 | r/ 45,994 | r/ 111,589 |
| 3357D 38 | Cross-linked polyethylene (USE) | 11 | 17,521 | 57,480 | 10 | r/ 19,198 | r/ 51,488 |
| | Thermoplastic insulated: | | | | | | |
| 3357D 40 | Flame-retardant nylon (THHN, THWN) | 17 | 813,346 | 1,538,579 | 16 | 621,538 | r/ 1,254,588 |
| 3357D 49 | Moisture and heat resistant (TW, THW) | 12 | 3,979 | 8,479 | 12 | r/ 4,224 | r/ 8,484 |
| 3357D 51 | Service entrance cable (SER, SEU, ASE) | 8 | 8,212 | 109,570 | 8 | 8,694 | 97,610 |
| | Nonmetallic branch-circuit and underground feeder: | | | | | | |
| 3357D 54 | Type NM-B | 6 | 395,131 | 784,940 | 7 | 363,851 | 677,933 |
| 3357D 55 | Type UF and NMC (corrosion resistant) | 8 | 42,810 | 91,183 | 9 | 40,425 | 82,535 |
| 3357D 57 | Metallic armored cable (all AC types) | 10 | 56,085 | 184,773 | 10 | 49,653 | 164,368 |
| 3357D 58 | Other building wire and cable | 10 | 9,587 | 29,796 | 10 | 18,724 | 44,202 |
| 33576 -- | Apparatus wire and cordage 3/ | 45 | 210,627 | 810,254 | 45 | 209,566 | 812,295 |
| | Flexible cordage: | | | | | | |
| 33576 13 | Thermoset insulated | 10 | 13,894 | 65,953 | 9 | r/ 10,935 | r/ 46,597 |
| 33576 15 | Thermoplastic, including thermoplastic elastomers | 16 | 31,255 | 64,074 | 15 | r/ 30,692 | 62,866 |
| 33576 42 | Extension cord sets | 9 | 26,441 | 113,930 | 9 | 30,056 | 130,082 |
| 33576 43 | Fixed power supply cords | 18 | 20,515 | 143,825 | 18 | 22,718 | 167,559 |
| 33576 44 | Detachable power supply cords | 6 | 8,937 | 52,948 | 6 | r/ 8,964 | r/ 54,084 |
| 33576 47 | Retractable power cords and other | 9 | 752 | 14,515 | 9 | 647 | 12,818 |
| | Apparatus wire: | | | | | | |
| 33576 21 | Appliance fixture wire | 19 | 32,686 | 101,801 | 19 | r/ 32,071 | r/ 96,578 |
| | Appliance wiring material 14 gauge and larger, including motor lead and transformer lead wire: | | | | | | |
| 33576 23 | Thermoset insulated | 4 | (D) | (D) | 4 | (D) | (D) |
| 33576 24 | Thermoplastic insulated | 9 | 34,477 | 78,086 | 9 | 34,192 | 75,910 |
| 33576 28 | Submersible pump cable | 7 | (D) | (D) | 8 | (D) | (D) |
| 33576 29 | Other apparatus wire and cordage, including tool wire | 16 | 21,577 | 78,536 | 16 | 19,475 | 73,957 |
| 3357E -- | Other insulated wire and cable | 40 | 142,215 | 539,779 | 40 | r/ 149,509 | 469,657 |
| | Automotive: | | | | | | |

Table 2. Shipments of Copper Insulated Wire and Cable: 1997 and 1996
 [Shipments in thousands of pounds. Value in thousands of dollars]

| Product code | Product description | Shipments, including interplant transfers 1/ | | | | | |
|--------------|---|--|-------------------|---------|-------------|-------------------|------------|
| | | 1997 | | | 1996 | | |
| | | No. of cos. | Copper content 2/ | Value | No. of cos. | Copper content 2/ | Value |
| 3357E 72 | Bulk automotive primary wire | 11 | 84,563 | 206,899 | 12 | r/ 81,214 | r/ 186,077 |
| 3357E 74 | Bulk battery cable | 7 | 14,582 | 36,002 | 7 | r/ 12,724 | r/ 34,598 |
| 3357E 76 | Bulk ignition wire | 6 | (D) | (D) | 6 | (D) | (D) |
| 3357E 78 | Other automotive wire and cable | 6 | (D) | (D) | 7 | (D) | (D) |
| | Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable: | | | | | | |
| 3357E 79 | Airframe and missile, including ground support cable | 10 | 4,159 | 40,828 | 8 | 4,166 a/ | 29,935 |
| 3357E 81 | Shipboard cable | 5 | 3,671 | 36,620 | 6 | 3,808 | 31,013 |
| 3357E 98 | Other insulated or covered wire and cable, n.e.c. | 20 | 24,363 | 106,090 | 21 | r/ 36,870 | 91,073 |

D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not else where classified. pt. Part.
 r/Revised by 5 percent or more from previously published data.

1/Interplant transfers for 1997 totaled \$44,010 and for 1996 totaled \$31,505.

2/Aluminum content for 1997 totaled 679,912 thousand pounds and for 1996 totaled 640,975 thousand pounds. See Table 3 for additional details.

3/Data include the following: a) all known establishments which insulate wire and cable and then fabricate it into finished products, (SIC product class 33576) and (b) establishments from product class 36996, that manufacture wire, cord, and flexible cord sets from purchased insulated wire.

Note: The data presented in this table are for copper content insulated wire and cable. See Table 3 for aluminum content information. The percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated.

Table 3. Shipments of Aluminum Insulated Wire and Cable: 1997 and 1996
 [Quantity in thousands of pounds. Value in thousands of dollars]

| Product code | Product description | 1997 | | | 1996 | | |
|--------------|--|-------------|--------------|-----------|-------------|--------------|--------------|
| | | No. of cos. | Gross weight | Value | No. of cos. | Gross weight | Value |
| 3357- pt. | Insulated wire (except magnet wire) | (X) | 679,912 | 3,962,426 | (X) | 640,975 | 3,891,547 |
| 3357A -- | Electronic wire and cable. | 4 | (D) | (D) | 4 | (D) | (D) |
| 33578 -- | Power wire and cable. | 9 | 325,733 | 1,790,548 | 9 r/ | 313,963 | r/ 1,713,554 |
| 33578 17 | Underground distribution cable, all insulations 600 volts or less. | 5 | 152,037 | 286,564 | 5 | 142,803 | 261,950 |
| 33578 27 | Service drop cable, thermoset insulated. | 3 | 34,826 | 64,317 | 3 | 34,584 | 62,546 |
| 33578 28 | Service drop cable, thermoplastic insulated. | 2 | (D) | (D) | 2 | (D) | (D) |
| 33578 37 | Underground distribution cable,all insulations-- over 600 volts. | 6 | 60,087 | 408,063 | 6 | 52,047 | 360,975 |
| 33578 42 | Thermoset insulated power cable, unarmored, rubber -- over 600 volts to 15 kV. | 5 | (D) | (D) | 4 | (D) | (D) |
| 33578 43 | Thermoset insulated power cable, unarmored, cross-linked--over 600 volts to 15 kV | 3 | (D) | (D) | 3 | (D) | (D) |
| 3357D -- | Building wire and cable. | 5 | 62,940 | 735,031 | 6 | 59,353 | 759,343 |
| 3357D 38 | Thermoset insulated, cross-linked polyethylene (USE). | 3 | (D) | (D) | 3 | (D) | (D) |
| 3357E -- | Other insulated wire and cable. | 2 | (D) | (D) | 2 | (D) | (D) |

D Withheld to avoid disclosing data for individual companies. pt. Part
 r/Revised by 5 percent or more from previously published data. X Not applicable.

Table 4. Shipments of Copper Magnet Wire, Including interplant transfers: 1997 and 1996
 [Gross weight in thousands of pounds. Value in thousands of dollars]

| Product code | Product description | Shipments, including interplant transfers 1/ | | | | | |
|--------------|---|--|-----------------|-----------|-------------|-----------------|-----------|
| | | 1997 | | | 1996 | | |
| | | No. of cos. | Gross weight 1/ | Value | No. of cos. | Gross weight 1/ | Value |
| 33577 -- | Magnet wire. | (NA) | 728,002 | 1,214,980 | (NA) | 728,631 | 1,238,581 |
| 33577 1- | Class 105. | (NA) | 49,604 | 67,122 | (NA) | 52,545 | 78,150 |
| 33577 11 | 7 Awg and larger round (also all square and rectangle). | 5 | 7,118 | 11,056 | 6 | 7,842 | 13,332 |
| 33577 13 | 8 to 21 Awg inclusive. | 5 | 32,151 | 37,964 | 7 | 31,753 | 40,763 |
| 33577 15 | 22 to 32 Awg inclusive. | 6 | 9,105 | 13,502 | 7 | 11,824 | 20,109 |
| 33577 18 | 33 to 44 Awg inclusive. | 5 | 1,230 | 4,600 | 7 | 1,126 | 3,946 |
| 33577 2- | Class 130 and 155. | (NA) | 129,840 | 272,539 | (NA) | 132,267 | 281,788 |
| 33577 20 | 7 Awg and larger round (also all square and rectangle). | 1 | (D) | (D) | 3 | (D) | (D) |
| 33577 22 | 8 to 21 Awg inclusive | 12 | 26,283 | 45,053 | 11 | 26,384 | 45,498 |
| 33577 24 | 22 to 32 Awg inclusive. | 15 | 81,338 | 155,292 | 14 | 84,126 | 165,356 |
| 33577 28 | 33 to 44 Awg inclusive. | 11 | (D) | (D) | 11 | (D) | (D) |
| 33577 4- | Class 180 and higher. | (NA) | 481,322 | 727,401 | (NA) | 471,392 | 729,081 |
| 33577 40 | 7 Awg and larger round (also all square and rectangle). | 7 | 38,510 | 72,001 | 8 | 37,061 | 68,941 |
| 33577 42 | 8 to 21 Awg inclusive. | 12 | 290,999 | 389,303 | 13 | 279,883 | 379,535 |
| 33577 44 | 22 to 32 Awg inclusive. | 11 | 125,648 | 207,357 | 14 | 121,422 | 211,833 |
| 33577 48 | 33 to 44 Awg inclusive. | 9 | (D) | (D) | 9 | 6,560 | 28,437 |
| 33577 90 | Miscellaneous film coated, n.e.c. | 1 | (D) | (D) | 4 | (D) | (D) |
| 33577 pt. | Non film coated(fibrous and tape). | (NA) | 32,440 | 82,335 | (NA) | 31,585 | 75,160 |
| 33577 81,83 | Class 130 and below. | 5 | 16,908 | 45,973 | 5 | 17,211 | 41,154 |
| 33577 85,87 | Class 155 and above. | 5 | (D) | (D) | 7 | (D) | (D) |
| 33577 88 | Miscellaneous non-film coated, n.e.c. | 1 | (D) | (D) | 2 | (D) | (D) |

D Withheld to avoid disclosing data for individual companies. NA Not available.
 n.e.c. Not elsewhere classified. pt. Part.

1/Interplant transfers for 1997 totaled 40,548 thousand pounds and 1996 totaled 53,364 thousand pounds of copper.

Table 5. Aluminum Shipments of Magnet Wire, Including Interplant Transfers: 1997 and 1996
 [Aluminum gross weight in thousands of pounds. Value in thousands of dollars]

| Product code | Product description | Shipments, including interplant transfers 1/ | | | | | |
|--------------|---|--|--------------|---------|-------------|--------------|-----------|
| | | 1997 | | | 1996 | | |
| | | No. of cos. | Gross weight | Value | No. of cos. | Gross weight | Value |
| 33577 -- | Magnet wire..... | 15 | 63,069 | 132,559 | 13 | 59,304 | 120,394 |
| 3577 pt. | Film coated..... | 14 | 54,452 | 118,728 | 13 | 51,373 | 107,813 |
| 3577 1- | Class 105..... | 5 | (D) | (D) | 5 | (D) | (D) |
| 3577 2- | Class 130 and 155 | 12 | (D) | (D) | 13 | (D) | (D) |
| 3577 4- | Class 180 and higher..... | 9 | 32,188 | 71,691 | 12 | 30,150 | r/ 66,709 |
| 3577 pt. | Other types of magnet wire (non film coated; insulated magnet sheet, strip, and foil; and film coated, 45 AWG and finer)..... | 5 | 8,617 | 13,831 | 5 | 7,931 | 12,581 |

D Withheld to avoid disclosing data for individual companies.
 pt. Part. r/Revised by 5 percent or more from previously published data.

1/Interplant transfers for 1997 totaled 6,143 thousand pounds of aluminum and for 1996 totaled 7,075 thousand pounds of aluminum.

Table 6. Value of Shipments of Fiber Optic Cable: 1997 and 1996
 [Thousands of dollars]

| Product code | Product description | 1997 | | 1996 | |
|--------------|------------------------------------|-------------|-----------|-------------|-----------|
| | | No. of cos. | Value | No. of cos. | Value |
| 33579 -- | Insulated optical fiber cable..... | 37 | 1,851,613 | 38 | 1,727,980 |
| 33579 pt. | Communication applications..... | 25 | 1,814,445 | 26 | 1,682,267 |
| | Single-mode stepped-index: | | | | |
| 33579 12 | Dispersion shifted..... | 11 | (D) | 9 | (D) |
| 33579 13 | Dispersion unshifted | 14 | 1,613,647 | 15 | 1,492,955 |
| 33579 14 | Multi-mode stepped index..... | 5 | (D) | 6 | (D) |
| 33579 15 | Multi-mode graded index | 19 | 200,798 | 19 | 189,312 |
| 33579 21 | Other applications..... | 15 | 37,168 | 16 | 45,713 |

D Withheld to avoid disclosing data for individual companies.

Table 7. Value of Shipments of Optical Fiber: 1997 and 1996
 [Thousands of dollars]

| Product code | Product description | 1997 | | 1996 | |
|--------------|--|-------------|-----------|-------------|-----------|
| | | No. of cos. | Value | No. of cos. | Value |
| | Optical fiber for data and non data transmission | 25 | 1,209,672 | 26 | 1,030,821 |
| 32318 95 | Optical fiber used for data transmission..... | 16 | 1,162,257 | 17 | 946,092 |
| 32318 97 | Optical fiber used for non data transmission..... | 14 | 47,415 | 14 | 84,729 |