

Insulated Wire and Cable: 2005

Issued June 2006

MA335J(05)-1

Current Industrial Reports

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/mcd/>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR)," clicking on "CIRs by Subsector;" then choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (XLS format) to your personal computer.

These data are also available on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: www.stat-usa.gov/. Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

SUMMARY OF FINDINGS

In 2005, the total value of manufacturers' shipments of copper insulated wire and cable increased by 17.8 percent to \$12.6 billion from \$10.7 billion in 2004. Quantity of shipments of aluminum insulated wire and cable shows a 1.0-percent decrease for 2005, totaling 493.1 million pounds, down from the 2004 total of 498.2 million pounds. Copper magnet wire increased to \$1.1 billion, up 10.0 percent from \$1.0 billion in 2004. Aluminum magnet wire increased 3.3 percent in 2005 to \$98.8 million, from the 2004 value of \$95.6 million. In 2005 insulated optical fiber cable increased by 30.8 percent to \$1,159.6 million, from the 2004 value of shipment totaling \$886.3 million. Optical fiber decreased 4.1 percent to \$481.6 million, from the 2004 total of \$502.3 million.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division, (MCD), Washington, DC 20233-6900 or call Phil Brown, 301-763-4740.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

Table 1. Summary of Shipments of Insulated Wire and Cable: 2000 to 2005
 [Value in millions of dollars]

Product code	Product description	2005	2004	2003	2002	2001	2000
	Insulated wire and cable 1/.....	15,449.8	13,233.8	11,441.5	11,944.8	16,873.4	19,751.3
335929A	Electronic wire and cable.....	2,755.9	2,614.3	2,358.8	2,576.2	2,657.5	3,530.8
335929B	Telephone and telegraph wire and cable.....	1,206.0	957.7	1,276.0	1,290.9	2,074.4	2,663.1
3359291	Power wire and cable 2/.....	2,337.9	1,810.4	1,484.5	1,466.0	1,545.8	1,682.9
3359291 pt.	Portable power cable 2/.....	(NA)	(D)	(D)	117.9	137.9	25.6
335929C	Control and signal wire and cable.....	301.4	(D)	(D)	208.0	197.3	172.7
335929D	Building wire and cable.....	4,828.9	3,707.3	2,433.8	2,302.4	2,121.1	2,379.6
331491F	Apparatus wire and cordage.....	516.6	560.6	671.9	629.2	735.4	857.5
335929E	Other insulated wire and cable.....	681.9	600.1	519.8	604.3	675.0	660.8
331491H	Magnet wire.....	1,180.1	1,120.7	957.3	980.0	1,059.4	1,232.3
3359210	Insulated optical fiber cable.....	1,159.6	886.3	944.4	1,282.5	3,646.2	4,070.5
327215A	Optical fiber.....	481.6	502.3	449.1	487.4	2,023.4	2,475.5

D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part.

1/Detail may not add to total due to rounding.

2/Beginning in 2005, part of product code 3359291, "Portable power cable," is included with the rest of product code 3359291, "Power wire and cable."

Table 2a. Shipments of Copper Insulated Wire and Cable: 2005
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/		
			Copper content weight 2/		Value 2/
335929 pt.	Insulated wire and cable (except magnet wire and optical wire).....	(NA)	3,028,031		12,628,528
335929A1	Electronic wire and cable.....	70	b/ 255,836	b/	2,755,922
	Flexible coaxial cable, armored or unarmored:	36	84,658		1,380,239
335929A130	135 C and over.....	11	3,751	a/	79,091
335929A140	Under 135 C.....	20	26,787		392,168
	Hookup wire (single conductor, shielded and nonshielded):				
335929A170	135 C and over temperature rating.....	19	b/ 13,378	b/	160,233
335929A180	Under 135 C temperature rating.....	30	c/ 58,448	c/	361,098
	Multiconductor electronic wire and cable (shielded and nonshielded):				
335929A190	Flat and ribbon cable.....	16	b/ 3,618	a/	53,827
	Other multiconductor electronic wire and cable:				
	Shielded:				
335929A1A0	135 C and over temperature rating.....	21	(D)		(D)
335929A1B0	Under 135 C temperature rating.....	30	a/ 36,800		313,085
	Nonshielded:				
335929A1C0	135 C and over temperature rating.....	9	(D)		(D)
335929A1D0	Under 135 C temperature rating.....	22	32,239		228,594
335929A1 pt.	Other electronic wire and cable.....	22	55,284		915,491
335929B	Telephone and telegraph wire and cable.....	22	b/ 375,834	a/	1,206,046
335929B120	Station wire and cable.....	10	a/ 12,343		44,020
335929B140	Inside wiring cable.....	11	a/ 67,383		455,646
335929B180	Other telephone and telegraph wire and cable.....	17	296,108		706,380
3359291	Power wire and cable 3/.....	22	b/ 371,523	b/	2,337,886
3359291810	Paper insulated cable (all voltages, all types).....	1	(D)		(D)
	Plastic and rubber insulated:				
	2 kV or less:				
3359291820	Portable welding cable.....	7	b/ 19,089	b/	55,323
3359291830	Underground distribution cable (UD, URD).....	7	8,230	a/	424,192
3359291840	Thermoplastic insulated power cable.....	9	c/ 24,747	c/	72,619
	Thermoset insulated:				
3359291850	Armored, rubber and cross-linked.....	7	c/ 18,703	b/	79,528
3359291860	Unarmored, rubber.....	6	c/ 17,325	b/	62,217
3359291870	Unarmored, cross-linked.....	6	13,393	a/	58,069
3359291890	Weatherproof cable.....	4	(D)		(D)
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	4	(D)		(D)
	Over 2 kV:				
33592918C0	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed).....	7	61,678		479,920
	Thermoset insulated power cable, excluding underground:				
	2 kV to 15 kV:				
33592918E0	Armored, rubber and cross-linked.....	7	a/ 27,130	a/	129,465
33592918F0	Unarmored, rubber.....	6	b/ 67,201	b/	266,007
33592918G0	Unarmored, cross-linked.....	5	a/ 4,782	a/	17,701
33592918H0	Over 15.1 kV (rubber and cross-linked).....	4	c/ 29,247	c/	163,235
33592918I0	Other power wire and cable, including portable.....	3	b/ 70,818	b/	393,234
335929C	Control and signal wire.....	23	b/ 49,877	c/	301,372
335929C110	Signal wire and cable.....	17	b/ 30,947	b/	187,823
	Control wire and cable, excluding elevator cable:				
335929C120	Thermoset insulated.....	8	5,050	a/	45,882
335929C130	Thermoplastic insulated.....	12	b/ 13,880	b/	67,667

Table 2a. Shipments of Copper Insulated Wire and Cable: 2005
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/		
			Copper content weight 2/	Value 2/	
335929D	Building wire and cable.....	23	a/	1,699,773	4,828,870
	Building wire and cable having underwriters' labels:				
	Thermoset insulated:				
335929D110	Cross-linked polyethylene (XHHW).....	11		44,654	177,371
335929D120	Cross-linked polyethylene (XLP, USE).....	10		20,767	73,401
	Thermoplastic insulated:				
335929D130	Flame-retardant nylon (THHN, THWN).....	14		779,262	1,931,996
335929D140	Moisture and heat resistant (TW, THW).....	13		2,783	8,153
335929D150	Service entrance cable (SER, SEU, ASE).....	9	b/	16,848	178,179
	Nonmetallic branch-circuit and underground feeder:				
335929D160	Type NM-B.....	8		652,789	1,689,028
335929D170	Type UF and NMC (corrosion resistant).....	10		47,735	145,261
335929D190	Other building wire and cable.....	12		134,935	625,481
331491F	Apparatus wire and cordage 4/.....	35	b/	112,202	a/ 516,563
	Flexible cordage:				
331491F110	Thermoset insulated.....	10	b/	21,117	b/ 99,482
331491F120	Thermoplastic, including thermoplastic elastomers.....	10		3,012	14,901
331491F180	Extension cord sets.....	5	b/	5,759	a/ 34,599
331491F190	Fixed power supply cords.....	10	a/	973	a/ 7,122
331491F1A0	Detachable power supply cords.....	4		996	a/ 2,349
331491F1B0	Retractable power cords and other.....	9	a/	488	16,509
	Apparatus wire:				
331491F130	Appliance fixture wire.....	15		19,235	a/ 88,191
331491F145	Appliance wiring material 14 gauge and larger, including motor lead and transformer lead wire, thermoset and thermoplastic insulated.....	11		26,526	114,762
331491F160	Submersible pump cable.....	9		15,853	69,736
331491F170	Other apparatus wire and cordage, including machine tool wire.....	15		18,243	68,912
335929E	Other insulated wire and cable.....	43	b/	162,986	a/ 681,869
	Automotive:				
335929E110	Bulk automotive primary wire.....	12		98,769	259,455
335929E120	Bulk battery cable.....	7		9,025	26,261
335929E130	Bulk ignition wire.....	7		2,033	86,093
335929E140	Other automotive wire and cable.....	8		10,068	88,873
	Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable:				
335929E150	Airframe and missile, including ground support cable.....	10		4,236	37,217
335929E160	Shipboard cable.....	5	c/	3,173	c/ 17,333
335929E170	Other insulated or covered wire and cable, n.e.c.	21	c/	35,682	c/ 166,637

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

1/Interplant transfers for 2005 totaled \$67,240.

2/Aluminum content for 2005 totaled 493,057 thousand pounds (not included in copper content weights). Aluminum shipment values are included in "Value." See Table 3 for additional details.

3/In the 2004 publication, this data did not include portable power cable.

4/Data include the following: (a) all known establishments which insulate wire and cable and then fabricate it into finished products, NAICS product class 331491E; (b) establishments from NAICS product class 334290 that manufacture wire, cord, and flexible cord sets from purchased insulated wire.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 2b. Shipments of Copper Insulated Wire and Cable: 2004
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/		
			Copper content weight 2/	Value 2/	
335929 pt.	Insulated wire and cable (except magnet wire and optical wire).....	(NA)	2,932,354	10,724,563	
335929A	Electronic wire and cable	82	255,292	2,614,288	
	Coaxial cable, armored or unarmored:				
335929A100	Rigid 3/.....	2	(D)	(D)	
335929A120	Semi rigid 3/.....	15	(D)	(D)	
	Flexible:				
335929A130	135 C and over.....	12	3,329	98,432	
335929A140	Under 135 C.....	24	23,985	394,822	
335929A150	CATV/broadcast coaxial cable 3/.....	8	(D)	(D)	
335929A160	Antenna lead-in wire 3/.....	5	42,873	801,706	
	Hookup wire (single conductor, shielded and nonshielded):				
335929A170	135 C and over temperature rating.....	22	11,195	155,444	
335929A180	Under 135 C temperature rating.....	32	76,667	391,030	
	Multiconductor electronic wire and cable (shielded and nonshielded):				
335929A190	Flat and ribbon cable.....	18	c/ 3,520	c/	65,753
	Other multiconductor electronic wire and cable:				
	Shielded:				
335929A1A0	135 C and over temperature rating.....	24	a/ 19,243	141,630	
335929A1B0	Under 135 C temperature rating.....	34	a/ 34,351	285,355	
	Nonshielded:				
335929A1C0	135 C and over temperature rating.....	11	b/ 5,920	55,448	
335929A1D0	Under 135 C temperature rating.....	28	34,029	225,268	
335929B	Telephone and telegraph wire and cable.....	25	310,769	957,742	
335929B110	Jumper and distributing frame wire.....	3	(D)	(D)	
335929B120	Station wire and cable.....	10	10,509	32,687	
335929B130	Telephone cord sets and cordage.....	6	(D)	(D)	
335929B140	Inside wiring cable.....	12	64,267	419,559	
335929B150	Drop and bridle and duct wire.....	3	(D)	(D)	
335929B160	Rural and urban distribution wire and cable.....	2	(D)	(D)	
335929B170	Polyethylene covered exchange area and toll cable (PIC and PULP insulated).....	3	(D)	(D)	
335929B180	Other telephone and telegraph wire and cable.....	7	(D)	(D)	
3359291 pt.	Power wire and cable.....	26	298,774	1,810,439	
3359291810	Paper insulated cable (all voltages, all types).....	1	(D)	(D)	
	Plastic and rubber insulated:				
	2 kV or less:				
3359291820	Portable welding cable.....	8	b/ 14,947	b/	42,497
3359291830	Underground distribution cable (UD, URD).....	7	c/ 8,303	388,761	
3359291840	Thermoplastic insulated power cable.....	9	b/ 27,203	b/	83,519
	Thermoset insulated:				
3359291850	Armored, rubber and cross-linked.....	7	14,757	60,484	
3359291860	Unarmored, rubber.....	6	20,975	64,241	
3359291870	Unarmored, cross-linked.....	7	10,929	a/	37,145
3359291880	Rubber (R, RH, RHH, RHW).....	2	(D)	(D)	
3359291890	Weatherproof cable.....	4	1,724	7,501	
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	4	a/ 539	80,223	
	Over 2 kV:				
33592918C0	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed).....	8	55,976	382,085	
33592918D0	Thermoplastic insulated power cable, excluding underground.....	5	(D)	(D)	

Table 2b. Shipments of Copper Insulated Wire and Cable: 2004
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/	
			Copper content weight 2/	Value 2/
	Thermoset insulated power cable, excluding underground: 2 kV to 15 kV:			
33592918E0	Armored, rubber and cross-linked.....	7	22,134	91,576
33592918F0	Unarmored, rubber.....	8	59,986	216,091
33592918G0	Unarmored, cross-linked.....	5	6,190	18,544
33592918H0	Over 15.1 kV (rubber and cross-linked).....	4	29,318	155,339
33592918I0	Other power wire and cable.....	9	c/ 13,424	c/ 126,806
3359291 pt.	Portable power cable.....	7	(D)	(D)
33592918J0	2 kV or less portable cable.....	6	(D)	(D)
33592918MO	Over 2 kV portable cross-linked and noncross-linked.....	2	(D)	(D)
335929C	Control and signal wire.....	22	(D)	(D)
335929C110	Signal wire and cable.....	17	(D)	(D)
	Control wire and cable, excluding elevator cable:			
335929C120	Thermoset insulated.....	8	(D)	(D)
335929C130	Thermoplastic insulated.....	12	(D)	(D)
335929D	Building wire and cable.....	24	1,663,821	3,707,265
	Building wire and cable having underwriters' labels:			
	Thermoset insulated:			
335929D110	Cross-linked polyethylene (XHHW).....	13	37,422	128,579
335929D120	Cross-linked polyethylene (XLP, USE).....	12	18,979	59,987
	Thermoplastic insulated:			
335929D130	Flame-retardant nylon (THHN, THWN).....	15	778,851	1,491,709
335929D140	Moisture and heat resistant (TW, THW).....	12	a/ 2,997	a/ 6,487
335929D150	Service entrance cable (SER, SEU, ASE).....	10	b/ 14,766	153,817
	Nonmetallic branch-circuit and underground feeder:			
335929D160	Type NM-B.....	9	593,007	1,227,269
335929D170	Type UF and NMC (corrosion resistant).....	10	46,423	a/ 111,405
335929D181	Metallic armored cable (AC type) 4/.....	1	(D)	(D)
335929D183	Metallic armored cable (MC type) 4/.....	6	(D)	(D)
335929D190	Other building wire and cable 4/.....	10	171,376	528,012
331491F	Apparatus wire and cordage 5/.....	42	139,535	560,560
	Flexible cordage:			
331491F110	Thermoset insulated.....	11	23,953	78,940
331491F120	Thermoplastic, including thermoplastic elastomers.....	15	c/ 12,931	b/ 36,194
331491F180	Extension cord sets.....	6	(D)	(D)
331491F190	Fixed power supply cords.....	12	(D)	(D)
331491F1A0	Detachable power supply cords.....	4	652	a/ 2,068
331491F1B0	Retractable power cords and other.....	9	b/ 663	14,430
	Apparatus wire:			
331491F130	Appliance fixture wire.....	18	b/ 20,657	b/ 90,706
331491F145	Appliance wiring material 14 gauge and larger, including including motor lead and transformer lead wire, thermoset and thermoplastic insulated.....	11	a/ 25,957	85,982
331491F160	Submersible pump cable.....	10	c/ 16,198	c/ 44,918
331491F170	Other apparatus wire and cordage, including machine tool wire.....	16	a/ 14,547	a/ 54,690
335929E	Other insulated wire and cable.....	38	171,525	600,087
	Automotive:			
335929E110	Bulk automotive primary wire.....	12	100,832	225,351
335929E120	Bulk battery cable.....	6	6,841	17,293
335929E130	Bulk ignition wire.....	7	1,938	85,030
335929E140	Other automotive wire and cable.....	8	a/ 7,238	56,730

Table 2b. Shipments of Copper Insulated Wire and Cable: 2004
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/		Value 2/
			Copper content weight 2/		
	Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable:				
335929E150	Airframe and missile, including ground support cable.....	8	3,007		27,445
335929E160	Shipboard cable.....	4	19,993	c/	47,050
335929E170	Other insulated or covered wire and cable, n.e.c.	15	31,676	c/	141,188

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

1/Interplant transfers for 2004 totaled \$38,406.

2/Aluminum content for 2004 totaled 498,173 thousand pounds (not included in copper content weights). Aluminum shipment values are included in "Value." See Table 3 for additional details.

3/Product codes 335929A100, 335929A120, and 335929A150 are combined with product code 335929A160 to avoid disclosing data for individual companies.

4/Product codes 335929D181 and 335929D183 are combined with product code 335929D190 to avoid disclosing data for individual companies.

5/Data include the following: (a) all known establishments which insulate wire and cable and then fabricate it into finished products, NAICS product class 331491E; (b) establishments from NAICS product class 334290 that manufacture wire, cord, and flexible cord sets from purchased insulated wire.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Aluminum Shipments of Selected Insulated Wire and Cable: 2005 and 2004
 [Aluminum gross weight shipments in thousands of pounds]

Product code	Product description	No. of cos.	2005	2004
			Aluminum content 1/ 2/	Aluminum content 1/ 2/
335929 pt.	Insulated wire (except magnet wire).....	(NA)	493,057	498,173
335929A	Electronic wire and cable.....	3	(D)	(D)
335929B	Telephone and telegraph wire and cable.....	-	-	-
3359291	Power wire and cable.....	9	335,382	328,781
3359291830	Underground distribution cable, all insulations-- 2 kV or less.....	5	197,301	198,491
3359291890	Weatherproof cable.....	3	1,665	1,819
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	3	43,092	40,988
33592918C0	Underground distribution cable, all insulations-- over 2 kV.....	6	46,933	42,481
33592918F0	Thermoset insulated power cable, unarmored, rubber-- 2 kV to 15 kV.....	4	5,171	5,501
3359291 pt.	Other power wire and cable.....	8	41,220	41,320
335929D1	Building wire and cable.....	7	105,120	93,833
335929D110	Thermoset insulated, cross-linked polyethylene (XHHW).....	5	(D)	(D)
335929D150	Service entrance cable (SER, SEU, ASE).....	5	(D)	(D)
335929D1 pt.	Other building wire and cable.....	6	34,543	(D)
335929C1, E1, F1	Other insulated wire and cable.....	6	(D)	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available.
 pt. Part.

1/Gross weight includes insulating materials, but excludes packing materials.
 2/Value of aluminum content is included in "Value" of Table 2a and Table 2b.

Table 4. Copper Shipments of Magnet Wire, Including Interplant Transfers: 2005 and 2004
[Copper gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/			
			2005		2004	
			Gross weight 2/	Value	Gross weight 2/	Value
331491H	Magnet wire	16	532,494	1,081,326	559,836	1,025,059
	Class 105 and below:					
331491H110	7 AWG and larger round, including all square and rectangle, film coated.....	3	7,987	13,686	8,903	12,772
331491H120	8 to 21 AWG, film coated.....	3	37,393	48,009	38,080	42,053
331491H135	22 to 33 AWG, film coated 3/.....	5	1,652	5,891	(D)	(D)
	Class 130 to 155:					
331491H160	8 to 21 AWG, film coated.....	9	16,937	35,326	19,161	29,589
331491H170	22 to 32 AWG, film coated.....	10	27,337	69,291	39,422	71,737
331491H180	33 to 44 AWG, film coated.....	8	11,078	42,015	12,025	43,331
	Class 180 and above:					
331491H190	7 AWG and larger round, including all square and rectangle, film coated.....	5	33,262	69,896	31,297	59,450
331491H1A0	8 to 21 AWG, film coated.....	9	263,292	446,659	262,518	433,043
331491H1B0	22 to 32 AWG, film coated.....	8	94,359	200,377	106,194	172,102
331491H1C0	33 to 44 AWG, film coated.....	7	6,566	29,720	7,810	33,279
331491H1C2	Miscellaneous film coated, n.e.c.	-	-	-	(D)	(D)
	Nonfilm coated (fibrous):					
331491H1D0	Class 130 and below.....	2	(D)	(D)	(D)	(D)
331491H1F0	Class 155 and above.....	4	6,138	23,094	7,101	14,414
	Nonfilm coated (tape):					
331491H1E0	Class 130 and below.....	2	(D)	(D)	(D)	(D)
331491H1G0	Class 155 and above.....	4	5,866	17,418	5,910	16,534
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	1	(D)	(D)	(D)	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified.

1/Interplant transfers total of copper for 2005 are withheld to avoid disclosing data for individual companies, and 2004 totaled 17,278 thousand pounds.

2/Gross weight includes insulating materials, but excludes packing materials.

3/2004 data included 22 to 32 AWG.

Table 5. Aluminum Shipments of Magnet Wire, Including Interplant Transfers: 2005 and 2004
 [Aluminum gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	No. of cos.	Shipments, including interplant transfers 1/			
			2005		2004	
			Gross weight 2/	Value	Gross weight 2/	Value
331491H	Magnet wire.....	6	50,834	98,757	53,046	95,608
	Class 105 and below:					
331491H110	7 AWG and larger round, including all square and rectangle, film coated.....	3	(D)	(D)	(D)	(D)
331491H120	8 to 21 AWG, film coated.....	3	15,444	22,718	13,264	18,354
331491H135	22 to 33 AWG, film coated 3/.....	1	(D)	(D)	(D)	(D)
	Class 130 to 155:					
331491H160	8 to 21 AWG, film coated.....	3	1,567	5,628	(D)	(D)
331491H170	22 to 32 AWG, film coated.....	5	298	1,112	505	1,211
331491H180	33 to 44 AWG, film coated.....	1	-	16	-	-
	Class 180 and above:					
331491H190	7 AWG and larger round, including all square and rectangle, film coated.....	4	1,743	4,353	2,047	4,202
331491H1A0	8 to 21 AWG, film coated.....	5	19,718	40,743	21,526	43,437
331491H1B0	22 to 32 AWG, film coated.....	4	(D)	(D)	(D)	(D)
331491H1C0	33 to 44 AWG, film coated.....	-	-	-	-	-
331491H1C2	Miscellaneous film coated, n.e.c.	-	-	-	-	-
	Nonfilm coated (fibrous):					
331491H1D0	Class 130 and below.....	-	-	-	-	-
331491H1F0	Class 155 and above.....	1	(D)	(D)	(D)	(D)
	Nonfilm coated (tape):					
331491H1E0	Class 130 and below.....	1	(D)	(D)	(D)	(D)
331491H1G0	Class 155 and above.....	2	(D)	(D)	2,488	5,078
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	1	(D)	(D)	(D)	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified.

1/Interplant transfers total of copper for 2005 are withheld to avoid disclosing data for individual companies, and 2004 totaled 4,098 thousand pounds.

2/Gross weight includes insulating materials, but excludes packing materials.

Table 6. Value of Shipments of Fiber Optic Cable: 2005 and 2004
 [Thousands of dollars]

Product code	Product description	No. of cos.	2005 Value	2004 Value
33592101	Insulated optical fiber cable.....	28	1,159,604	886,279
33592101 pt.	Communication applications.....	19	1,151,830	881,045
	Single-mode stepped-index:			
3359210125	Dispersion shifted.....	9	215,623	138,400
3359210128	Dispersion unshifted.....	17	631,547	479,514
3359210129	Multimode index.....	15	304,660	263,131
3359210434	Other applications.....	12	7,774	5,234

pt. Part.

Table 7. Value of Shipments of Optical Fiber: 2005 and 2004
 [Thousands of dollars]

Product code	Product description	No. of cos.	2005 Value	2004 Value
	Optical fiber for data and nondata transmission.....	14	481,564	502,323
327215B235	Optical fiber used for data transmission.....	10	465,492	r/ 488,003
327215B238	Optical fiber used for nondata transmission.....	5	16,072	r/ 14,320

r/Revised by 5 percent or more from previously published data.

Table 8. Shipments, Exports, and Imports of Insulated Wire and Cable: 2005
 [Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments (f.o.b. plant)		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value 4/
331491H110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1I0, 1D0, 1F0, 1E0, 1G0, 1H0	Magnet wire (copper).....	532,494	1,081,326	65,143	326,123	48,255	242,391
331491H110, 120, 130, 140, 150, 160, 170, 180, 190, 331491H1A0, 1B0, 1C0, 1I0, 1D0, 1E0, 1F0, 1G0, 1H0	Magnet wire (aluminum).....	50,834	98,757	14,399	102,789	3,009	22,310
335929A100, 120, 130, 140, 150	Coaxial cable.....	84,658	1,380,239	52,406	410,559	56,685	452,591
3359210125, 128, 131, 134, 3359210434	Optical fiber cables.....	5,345,991	1,159,604	568,499	272,365	615,636	323,817
327215B235, 238	Optical fibers, bundles, and cables.....	(X)	481,564	3,691,762	186,811	97,903	26,931
335929B110, 120, 130, 140, 150, 160, 170, 180, 335929E150, 160	Other wire and cable used for telecommunications (except fiber optics).....	308,752	760,930	(NA)	(NA)	32,639	603,456

NA Not available. X Not applicable.

1/For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 9.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, Imports for Consumption.

4/Dollar value represents the c.i.f. (cost, insurance, and freight) value at the first point of entry in the United States plus U.S. import duties.

Table 9. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2005

Product code	Product description	Export code 1/	Import code 2/
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (copper).....	8544.11.0020 8544.11.0030 8544.11.0050	8544.11.0020 8544.11.0030 8544.11.0050
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (aluminum).....	8544.19.0000	8544.19.0000
335929A100, 120, 130, 140, 150	Coaxial cable.....	8544.20.0000	8544.20.0000
3359210125, 128, 131, 134, 434	Optical fiber cable.....	8544.70.0000	8544.70.0000
327215A235, 238	Optical fibers, optical fiber bundles, and cables.....	9001.10.0000	9001.10.0075 9001.10.0085
335929B110, 120, 130, 140, 150 160, 170 180	Other wire and cable used for telecommunications (except fiber optics).....	(NA)	8544.41.4000 8544.49.4000 8544.51.4000 8544.51.7000
335929E150, 160			

NA Not available.

1/Source: 2005 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2005).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on insulated wire have been collected by the Census Bureau since 1965. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.