

CURRENT INDUSTRIAL REPORTS SERIES

2007

MA335J — INSULATED WIRE AND CABLE (SHIPMENTS)

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers establishments manufacturing and fabricating insulated wire and cable and/or apparatus wire and cordage with a copper/copper-clad or aluminum/aluminum-clad core. This survey also includes optical fiber cable.

2. Figures to be reported

We prefer that a separate report be filed for each establishment. However, if you wish, you may combine two or more establishments in a single report. If you do file a combined report, you should report transfers in between the various plants as interplant transfers in sections I–VIII. Such shipments should also be included, as provided below, in those data which represent "total shipments, including interplant transfers."

If you manufacture apparatus wire and cordage, you should report:

If you buy wire and insulate it and/or
If you buy wire already insulated,

You should report all shipments (including both domestic and export) of insulated or covered wire and cable for transmitting electrical energy, signals, or communication.

Exclude bare and tinned wire and cable and ACSR.

Report interplant transfers for those shipments "shipped" for use by your own company, an affiliate, subsidiary, or parent company. The interplant transfer figure should also be included with "total shipments, including interplant transfers."

Transfers to sales branch location should be excluded from interplant transfers but should be included in shipments to other companies.

Exclude resales — products bought and sold without further manufacture.

The value of the products shipped should be based on the net selling value, f.o.b. plant, after discounts and returns and allowances. Freight charges and excise taxes should be excluded.

Be sure to sum all of the items designated under the indicated product groups that you have reported. This total should agree with your shipments for that section. If your shipments are greater than the individual items you have reported, you may have omitted an item(s). If this is the case, please insert those items omitted. If, however, your shipments are less than the individual

item reported, you may have double counted one or more items.

Item
code Product group

2298 Total electronic wire and cable
2598 Total telephone and telegraph wire and cable
3298 Total power wire and cable
4198 Total control and signal wire and cable
4298 Total building wire and cable
5298 Total apparatus wire and cordage
5398 Total other insulated wire and cable
6199 Total magnet wire
8199 Total optical fiber cable
9103 Total optical fiber for data and nondata transmissions

3. Columnar structure of report

When posting your figures to the report, please be sure to report the information in the correct columns. These are:

SECTIONS I–VIII — INSULATED WIRE AND CABLE, OTHER THAN MAGNET WIRE AND OPTICAL FIBER CABLE

Column 1 — Copper content (excluding insulation) in thousands of pounds for total shipments, including interplant transfers.

Column 2 — Aluminum content (excluding insulation) in thousands of pounds.

For sections I, II, V, and VII, report quantity of aluminum content for:

Item code 2298 — Total electronic wire and cable
Item code 2598 — Total telephone and telegraph wire and cable
Item code 4198 — Total control and signal wire and cable
Item code 5298 — Total apparatus wire and cordage

Metal content of "copper clad aluminum" should be reported in the aluminum column.

Column 3 — Value in thousands of dollars for total shipments, including interplant transfer. Example: \$1,000,000, report as \$1,000.

Column 4 — Value in thousands of dollars for interplant transfers, excluding shipments to sales branches (Total only) Example: \$1,000,000, report as \$1,000.

SECTION IX — MAGNET WIRE (Item codes 6106–6199)

You should report products with thermal ratings falling between those listed in the report under the next lower rating, except that products with a thermal rating of less than 105 C should be included with 105 C products.

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DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

3. Columnar structure of report — Continued

SECTION IX - MAGNET WIRE (Item codes 6106–6199) — Continued

The U.S. Government specification for magnet wire, MW 1000, should be used as the guide for determining the thermal classification of magnet wire.

Column 1 — Quantity of copper wire in thousand pounds gross weight (including insulation) for total shipments including interplant transfers.

Column 2 — Value of copper wire (including insulation) in thousands of dollars for total shipments including interplant transfers. Example: \$1,000,000, report as \$1,000.

Column 3 — Quantity of aluminum wire in thousand pounds gross weight (including insulation) for total shipments including interplant transfers.

Column 4 — Value of aluminum wire (including insulation) in thousands of dollars for total shipments including interplant transfers. Example: \$1,000,000, report as \$1,000.

Column 5 — Quantity of copper wire in thousand pounds gross weight for interplant transfers, excluding shipments to sales branches.

Column 6 — Quantity of aluminum wire in thousand pounds gross weight for interplant transfers, excluding shipments to sales branches.

SECTION X — OPTICAL FIBER CABLE (Item codes 8101–8199)

This section provides for the collection of insulated optical fiber cable.

Column 1 — Quantity (Report thousands of Cable Conductor Kilometers (CCKM)).

Column 2 — Value (Report in thousands of dollars the value of optical fiber cable, including insulation). Example: \$1,000,000, report as \$1,000.

SECTION XI — OPTICAL FIBER (Item codes 9101–9103)

This section provides for the collection of optical fiber.

Column 2 — Value (Report in thousands of dollars the value of optical fiber). Example: \$1,000,000, report as \$1,000.

4. Definitions

INSULATED WIRE — A rod of drawn metal filament covered with insulation.

INSULATED CABLE — A number of conductors twisted or grouped together.

Dual rated products should be classified according to their higher ratings.

Multi-insulated cables should be classified according to their primary insulation, i.e., the layer of material designed to do the electrical insulating, usually the first layer of material applied over the conductor.

GROSS WEIGHT — Include insulating materials but exclude packaging materials.

INSULATION — A non-conductive material usually surrounding or separating two or more conductive materials.

THERMOPLASTIC — Insulation that will soften and distort from its formed shape by heating above a critical temperature peculiar to the material.

THERMOSETTING — Insulation that will not resoften or distort from its formed shape by heating until a destructive temperature is reached.

ARMOR — The outer layer of a cable applied for mechanical protection, usually consisting of a layer or layers of a metallic tape, braid, or several wires.

CROSS-LINKED — Intermolecular bonds produced between long chain molecules in a material to increase molecular size by chemical or electron bombardment, resulting in a change in physical properties in the material.

ELASTOMER — Any elastic rubber-like substance, such as natural or synthetic rubber; when stretched to twice its length will resume approximately the original shape.

JACKET — A covering put around an insulated conductor for the purpose of protection and/or resistance.

INSULATED WIRE AND CABLE — All insulated wire and cable for transmitting electrical energy, signals, or communications. Exclude bare and tinned wire and cable and ACSR.

ELECTRONIC WIRE AND CABLE — All single and multi-conductor wire and cable used for transmission, reception, or reproduction of electrical frequencies (16 gauge and smaller). Excludes telephone cable. See Apparatus Wire and Cordage for larger gauges.

SEMI-RIGID — A cable containing a flexible inner core and a relatively inflexible sheathing.

COAXIAL CABLE — Cable consisting of two or more cylindrical conductors with a common axis. The two

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DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

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4. Definitions — Continued

conductors are separated by a dielectric for use as high frequency transmission lines and communication systems.

HOOK-UP WIRE, SINGLE CONDUCTOR — Single conductor wire (16 AWG and smaller) used for internal equipment wiring.

RIBBON CABLE — A cable consisting of two or more conductors laid parallel in one plane and held in place by the insulation or some other means.

MULTI-CONDUCTOR CABLE — More than one conductor within a single cable complex.

SHIELDED CABLE — Constructed so that substantially every point on the insulation is at ground potential or some pre-determined potential with respect to ground.

TELEPHONE WIRE AND CABLE — All wires and cables used in the telephone industry to transmit, receive, and monitor communications signals. Excludes coaxial and other electronic wire and cable.

DROP WIRE — Service drop from pole to subscribers house: parallel, twisted or dumbbell style.

BRIDLE WIRE — For connection of open wire and terminals or protectors and as apparatus leads.

TELEPHONE CORD SETS — Cut lengths of wire with terminals or connectors for use in telephone hand or head set applications and telephone line cords.

POWER CABLE (2KV or less) — Single and multi-conductor cable rated 2KV or less, sizes 14 AWG and larger, insulated with thermosetting or thermoplastic insulation, and with or without a metallic armor overall.

Include:

- Airport lighting cable
- Bus drop cable
- Cathodic protection cable
- Network cable
- Oil tray cable
- Overhead line wire
- Pole and bracket cable
- Power tray cable
- Service drop and secondary cable (8 AWG or larger)
- Submarine power cable (8 AWG or larger)
- Submersible pump or water well cable (8 AWG or larger)
- Weatherproof cable

Exclude:

- Insulated single conductor with UL label
- Secondary underground distribution cables

Single conductor multiplexed or paralleled reported as 0–2KV BX and AC wire

POWER CABLE (2.1–15KV) — Single and multiconductor cable rated 2.1–1.5KV, in sizes 8 AWG and larger, insulated with dielectric insulation, either thermosetting or thermoplastic, shielded or unshielded, jacketed or unjacketed and armored or unarmored.

Include

- Aerial spacer cables
- Airport lighting cable
- Oil well cable — armored and unarmored
- Pole and bracket cable
- Power cable
- Street lighting cable
- Submarine power cable

Exclude

- Portable power cables
- UD cables
- Mine power feeder cable

POWER CABLE (over 15KV) — Single and multi-conductor cable rated 15.1KV and over, in sizes 2 AWG and larger, insulated with dielectric insulation, thermosetting, shielded or unshielded, jacketed or unjacketed and armored or unarmored.

Include

- Power cable
- Submarine power cable

Exclude

- Portable power cables
- UD cables
- Mine power feeder cable

POWER CABLE, UNDERGROUND CABLE (US) 0–2KV (UL listed, single conductor cable) — Single, multiplex, or paralleled solid dielectric insulated cable with or without concentric neutral (either thermosetting or thermoplastic insulation) rated 0–2KV and specifically used for residential and/or commercial underground services and/or feeders. Exclude single conductor UL labeled USE.

POWER CABLE, UNDERGROUND CABLE (US) OVER 2KV — Single, multiplex, or paralleled solid dielectric insulated cable with or without concentric neutral (either thermosetting or thermoplastic insulation) rated over 2KV and designated for use as a primary distribution cable in underground locations.

CONTROL AND SIGNAL WIRE AND CABLE — Any solid dielectric insulated (thermosetting or thermo-plastic), jacketed or unjacketed cable, multi-conductor, rated 2500V or less, sized 22 AWG through 9 AWG, utilized to operate

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DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

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4. Definitions — Continued

control valves and relays, or to implement or record an event (but does not supply the energy being controlled in the event); also utilized to actuate, power and control railroad signaling, warning or crossing protective devices; or utilized to actuate or control fire alarm circuits.

Include

Signal cable — less than 16 AWG or less than 2KV

Control cable — 9 AWG and smaller, 2KV or less than 300V

Fire alarm cable

Submarine control cable

Instrumentation cable

Railroad signal cable

Traffic control and signal cable

PORTABLE CROSS LINKED JACKETED CABLE

Include

Shielded and non-shielded

Round types: SO, W, G, PG, PCG, SH, AND SH-A, B, C, D, and GGC

Types SO, SJO, AND SJO shielded and unshielded

Twin or triple types W and G

Locomotive Gathering reel

Battery

Concentric

Elevator Control

Grounding cable

High tension

Trolley bus

Magnet Crane

Motor Lead

Power Jumper

Railway Utility

Sand Cutter

Train Jumper

PORTABLE NON-CROSS LINKED JACKETED CABLE

— All portable cable not bearing UL flexible cord or appliance wiring material label. Include thermoplastic mining machine cable; thermoplastic and thermoset mine power feeder. Exclude welding cable.

BUILDING WIRE — All wire and cable (601 volts or less) used within structures for light and power for permanent installation. Includes service entrance cable.

APPARATUS WIRE AND CABLE — Insulated wire and cable used in connecting electrical apparatus to a power source, and appliance wiring material (22 AWG and heavier including motor lead and transformer lead wire). See electronic wire and cable for appliance wiring material finer than 22 AWG.

CORD SETS — Portable cords, fitted with any type of wiring device at one or both ends.

CORD — A small, flexible, multiple-conductor cable.

APPLIANCE WIRING MATERIAL — Insulated wire and cable intended for internal wiring of appliances and equipment.

FLEXIBLE CORDAGE (Flexible cord, portable cord, or appliance cord) — Cordage of two or more conductors, normally used for electrical and electronic appliances, tools, and business machines.

OTHER APPARATUS WIRE AND CORDAGE (Including machine tool wire) — Other types such as battery cable: non-transportation uses, defroster wire, and electric furnace cable.

OTHER WIRE AND CABLE — Includes bulk automotive battery and ignition wire, elevator hatch and traveling cable, weatherproof cable, and air-frame, shipboard, and ground support cable.

BULK AUTOMOTIVE PRIMARY WIRE — Used for low voltage lighting and control circuits, including wiring for automotive harnesses.

BULK BATTERY CABLE — Used for positive and negative cables, switch to starter cables.

BULK IGNITION WIRE — High tension (5mm or 7mm) shielded or unshielded for internal combustion engines.

BATTERY CABLE SETS — Cut lengths of wire with ends prepared for connection between automotive battery and starter, battery and battery, battery and ground or switch to starter.

MAGNET WIRE, including insulated magnet strip conductor — all insulated wire of the type generally used in the winding of coils, including Litz wire and including insulated magnet sheet, strip, and foil. The thermal classification for bondable wires should be determined by the underlying insulation. Also, the combination (film-fabric) product should be classified based on the insulation on the top side.

LITZ WIRE — Litz wire refers to multistrand construction of small gauge film insulated wire that is precision twisted. This construction minimizes the power loss related to the "skin effect" of current at radio frequencies.

OPTICAL FIBER — Optical Fiber used for data purposes — A long thin strand of transparent glass, plastic or other materials usually consisting of a fiber optical core and a fiber optical cladding capable of conducting light along its axial length by internal reflection, used in the transmission of voice, video, and/or data information.

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4. Definitions — Continued

ALL GLASS OPTICAL FIBER (single node) — An optical fiber consisting of a glass core and glass cladding that supports the propagation of only one mode, or ray, of light at a time.

ALL GLASS FIBER (multimode) — An optical fiber consisting of a glass core and a glass cladding that supports the propagation of more than one mode, or ray, of light at a time.

PLASTIC CLAD GLASS FIBER — An optical fiber with a glass core and a plastic optical cladding.

ALL PLASTIC OPTICAL FIBER — An optical fiber consisting of a plastic optical core and a plastic optical cladding.

NONCOHERENT BUNDLE — A collection of optical fibers arranged randomly for the purpose of transmitting light but not images.

COHERENT BUNDLE — A collection of optical fibers arranged non-randomly to permit the transmission of images, excluding faceplates and sensors.

FACEPLATE — A fused coherent bundle used for the transmission of images over a short distance, excluding sensors.

SENSORS — Optical fibers used in apparatus designed to detect or sense environmental effects such as pressure, temperature, magnetic, electric fields, rotation, etc.

5. Abbreviations

<i>C</i>	Centigrade
<i>AWG</i>	American wire gauge
<i>UD</i>	Underground distribution
<i>URD</i>	Underground residential distribution
<i>UL</i>	Underwriters laboratory
<i>USE</i>	Underground service entrance cable, 75 C wet location
<i>KV</i>	Kilovolt (1000 volts)
<i>R</i>	Rubber insulated
<i>RH</i>	Rubber insulated, heat resistant cable, 75 C dry location
<i>RHH</i>	Rubber insulated, heat resistant cable, 90 C dry locations
<i>RHW</i>	Rubber insulated, heat and moisture resistant, 75 C dry and wet locations
<i>XHHW</i>	Cross-linked polyethylene insulated, 90 C dry location, 75 C wet location
<i>THHN</i>	Thermoplastic insulated, high heat resistant, nylon jacketed cable, 90 C dry location.

<i>THWN</i>	Thermoplastic insulated, heat and moisture resistant, nylon jacket cable, 75 C dry and wet location
<i>TW</i>	Thermoplastic insulated, moisture resistant cable, 60 C wet or dry location
<i>THW</i>	Thermoplastic insulated, heat and moisture resistant cable, 75 C dry and wet location
<i>SER</i>	Round service entrance cable (rubber)
<i>SEU</i>	Service entrance cable (unarmored)
<i>SEA</i>	Service entrance cable (armored)
<i>NM</i>	Designation for nonmetallic sheathed cable, building wire
<i>NMC</i>	Nonmetallic sheathed cable, corrosion resistant, 60 C wet or dry location
<i>UF</i>	Underground feeder cable, thermoplastic insulated, 60 C wet or dry location
<i>AC</i>	Alternating current
<i>MI</i>	Mineral insulated 85 C dry and wet location, 250 C special application
<i>PIC</i>	Thermoplastic insulated
<i>PULP</i>	Paper and pulp insulated

6. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below:

Current Industrial Report (Form MA335J)	Economic Census - Manufacturing Sector
Item codes (a)	Product codes (b)
2213 through 2272	335929A100
2503 through 2513	335929B100
3201 through 3279	3359291800
4111 through 4119	335929F100
4242 through 4265	335929D100
5310 through 5331	335929F100
8101 through 8104	3359210201
8120	3359210301
9101 through 9102	327215B231

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REFERENCE LIST

FORM MA335J		
INSULATED WIRE AND CABLE (SHIPMENTS)		
Product code	Item code	Item description
Section I — ELECTRONIC WIRE AND CABLE, INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)		
335929A100pt	2213	Electronic coaxial cable, armored or nonarmored, flexible: 135 C and over
335929A100pt	2221	Under 135 C
335929A100pt	2245	Hook-up wire, (single conductor, shielded and nonshielded): 135 C and over temperature rating
335929A100pt	2250	Under 135 C temperature rating, 16 AWG and smaller
335929A100pt	2253	Multiconductor electronic wire and cable (shielded and unshielded): Flat and ribbon cable Other multiconductor electronic wire and cable:
335929A100pt	2255	Shielded: 135 C and over temperature rating
335929A100pt	2260	Under 135 C temperature rating
335929A100pt	2265	Nonshielded: 135 C and over temperature rating
335929A100pt	2270	Under 135 C temperature rating
335929A100pt	2272	Other electronic wire and cable, including products fabricated from wire and cable (excluding fiber optics)
335929A100	2298	Total electronic wire and cable (Sum of item codes 2213–2272)
Section II — TELEPHONE AND TELEGRAPH WIRE AND CABLE, INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)		
335929B100pt	2503	Station wire and cable
335929B100pt	2509	Inside wiring cable
335929B100pt	2513	Other telephone and telegraph wire and cable, including products fabricated from wire and cable (excluding fiber optics)
335929B100	2598	Total telephone and telegraph wire and cable (Sum of item codes 2503–2513)
Section III — POWER WIRE AND CABLE, INCLUDING PORTABLE (Exclude fiber optics)		
3359291800pt	3201	Paper insulated cable (all types, all voltages)
3359291800pt	3203	Plastic and rubber insulated: 2 KV or less: Portable welding cable
3359291800pt	3219	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed, excluding single conductor UL labeled USE)

pt=part

CURRENT INDUSTRIAL REPORTS SERIES

REFERENCE LIST — Continued

FORM MA335J		
Product code	Item code	Item description
Section III — POWER WIRE AND CABLE (Exclude fiber optics)—Continued		
3359291800pt	3231	2KV or less—Continued: Thermoplastic insulated power cable (exclude underground)
3359291800pt	3233	Thermoset, insulated power cable (exclude underground): Armored, rubber and cross linked
3359291800pt	3235	Unarmored, rubber (exclude single conductor UL labeled USE)
3359291800pt	3245	Unarmored, cross linked
3359291800pt	3249	Weatherproof cable
3359291800pt	3257	Service drop cable, thermoset and thermoplastic insulated
Over 2KV:		
3359291800pt	3263	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed)
Thermoset, insulated power cable (exclude underground):		
2KV to 15KV:		
3359291800pt	3267	Armored, rubber and cross linked
3359291800pt	3271	Unarmored, rubber (exclude single conductor UL labeled USE)
3359291800pt	3273	Unarmored, cross linked
3359291800pt	3275	Over 15.1KV, rubber and cross linked
3359291800pt	3279	Other power wire and cable
3359291800	3298	Total power wire and cable (Sum of item codes 3201–3279)
Section V — CONTROL AND SIGNAL WIRE AND CABLE (Exclude fiber optics)		
335929F100pt	4111	Signal wire and cable
Control wire and cable (exclude elevator cable):		
335929F100pt	4115	Thermoset insulated
335929F100pt	4119	Thermoplastic insulated
XXX	4198	Total control and signal wire and cable (Sum of item codes 4111–4119)
Section VI — BUILDING WIRE AND CABLE (Exclude fiber optics)		
Building wire and cable:		
Thermoset insulated:		
335929D100pt	4242	Cross linked polyethylene (XHHW)
335929D100pt	4244	Cross linked polyethylene (XLP, USE)
Thermoplastic insulated:		
335929D100pt	4246	Flame-retardant nylon (THHN, THWN)
335929D100pt	4248	Moisture and heat resistant (TW, THW)
335929D100pt	4254	Service entrance cable (SER, SEU, ASE)
Non-metallic branch-circuit and underground feeder:		
335929D100pt	4256	Type NM-B
335929D100pt	4258	Type UF and NMC (corrosion resistant)
335929D100pt	4265	Other building wire and cable, including metallic armored cable (AC and MC type)
335929D100	4298	Total building wire and cable (Sum of item codes 4242–4265)

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pt=part

REFERENCE LIST — Continued

FORM MA335J		
Product code	Item code	Item description
		<p>Section VII — APPARATUS WIRE AND CORDAGE INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (<i>Exclude fiber optics</i>)</p> <p>Flexible cordage:</p> <p>5221 Thermostat insulated</p> <p>5223 Thermoplastic (include thermoplastic elastomers)</p> <p>5225 Extension cord sets</p> <p>5227 Fixed power supply cords</p> <p>5231 Detachable power supply cords</p> <p>5233 Retractable power supply cords</p> <p>Apparatus wire:</p> <p>5235 Appliance fixture wire</p> <p>5240 Appliance wiring material 14 gauge and larger (include motor lead and transformer lead wire), thermoset and thermoplastic insulated</p> <p>5243 Submersible pump cable</p> <p>5247 Other apparatus wire and cordage (include machine tool wire)</p>
XXX	5298	Total apparatus wire and cordage (<i>Sum of item codes 5221–5247</i>)
		<p>Section VIII — OTHER INSULATED WIRE AND CABLE INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (<i>Exclude fiber optics</i>) (<i>Exclude appliance wire and cord and flexible cord sets, ignition harness sets, cable sets, etc.</i>)</p> <p>Automotive:</p> <p>335929F100 5310 Bulk automotive primary wire</p> <p>335929F100 5312 Bulk battery cable</p> <p>335929F100 5315 Bulk ignition wire</p> <p>335929F100 5318 Other automotive wire and cable</p> <p>Airframe, shipboard, and ground support cable (exclude coaxial cable and ignition cable):</p> <p>335929F100 5324 Airframe and missile (including ground support cable)</p> <p>335929F100 5328 Shipboard cable</p> <p>335929F100 5331 Other insulated or covered wire and cable, not elsewhere classified</p>
XXX	5398	Total other insulated or covered wire and cable (<i>Sum of item codes 5310–5331</i>)
		<p>Section IX — MAGNET WIRE (<i>Include insulated magnet sheet, strip, and foil but exclude fiber optics</i>)</p> <p>Film coated (Report products with thermal rating between classes in the next lower class):</p> <p>Class 105 and below:</p> <p>6106 7 AWG and larger round (include all square and rectangular)</p> <p>6108 8–21 AWG</p> <p>6113 22–33 AWG and finer</p> <p>Class 130–155:</p> <p>6119 8–21 AWG</p> <p>6121 22–32 AWG</p> <p>6125 33 AWG and finer</p>

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REFERENCE LIST — Continued

FORM MA335J		
Product code	Item code	Item description
Section IX — MAGNET WIRE <i>(Include insulated magnet sheet, strip, and foil but exclude fiber optics)</i> —Continued		
Film coated (Report products with thermal rating between classes in the next lower class)—Continued:		
Class 180 and above:		
7 AWG and larger round (include all square and rectangular)		
8–21 AWG		
22–32 AWG		
33 AWG and finer		
Other film coated		
Nonfilm coated:		
Class 130 and below:		
Fibrous		
Tape		
Class 155 and above:		
Fibrous		
Tape		
Other non-film coated		
XXX	6199	Total magnet wire <i>(Sum of item codes 6106–6188)</i>
Section X — FIBER OPTICAL CABLE		
Communication applications:		
Single-mode stepped-index:		
Dispersion shifted		
Dispersion unshifted		
Multimode index		
Other applications		
3359210201pt	8101	
3359210201pt	8102	
3359210201pt	8104	
3359210301	8120	
XXX	8199	Total fiber optical cable <i>(Sum of item codes 8101–8120)</i>
Section XI — OPTICAL CABLE		
327215B231pt	9101	Optical glass fiber used for data purposes
327215B231pt	9102	Optical glass fiber used for nondata purposes
327215B231	9103	Total optical fiber for data and nondata transmission <i>(sum of item codes 9101 and 9102)</i>
SELECTED NONMANUFACTURING REVENUES OF THIS ESTABLISHMENT		
9999998900	9973	Resales — Sales of products bought and sold without further manufacture, processing, or assembly.

11/5/07

pt=part

REPORT FOR CALENDAR YR 2007

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

FORM **MA335J**

CURRENT INDUSTRIAL REPORTS

INSULATED WIRE AND CABLE
{Including Fiber Optics}

Annual Report

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. **YOUR RESPONSE IS REQUIRED BY LAW** (Title 13, United States Code). By section 9 of the same law, **YOUR REPORT IS CONFIDENTIAL**. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID) 89100193660



ID 89100193660 546 00 0701 16 MA335J
40 2007A1 MA335J

SEQ: 1

ATTN: Controller
TF

TF DC 99999-9999

If you have questions regarding this report form please contact:
QUENTON LINEAR X4
1(800)201-4647

EMPLOYER IDENTIFICATION (EI) NUMBER. Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) **(Enter if not shown, correct if wrong.)**

CONTACT PERSON (Enter information if not shown, correct if wrong.)
Name ATTN: Controller

Area code Number

Fax number

(Please correct any error in name and address including ZIP Code)

Enter or correct email address: []

PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire				5	6
			{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
SECTION I - ELECTRONIC WIRE & CABLE INCL. PRODUCTS FABRICATED FROM WIRE & CABLE {EXCL. FIBER OPTICS}			1	2	3	4		
335929A100-Flexible coaxial cable, 135 C & over, armored or nonarmored	2213	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Flexible coaxial cable, under 135 C, armored or nonarmored	2221	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Hook-up wire, 135 C & over temp. rating {single conductor, shielded & nonshielded}	2245	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		

* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4	5	6
335929A100-Hook-up wire under 135 C temp. rating, 16 AWG & smaller {single conductor shielded & nonshielded}	2250	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Multiconductor flat & ribbon cable {shielded & nonshielded}	2253	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Other multiconductor shielded cable, 135 C & over temp. rating	2255	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Other multiconductor shielded cable, under 135 C temp. rating	2260	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Other multiconductor nonshielded cable, 135 C & over temp. rating	2265	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Other multiconductor nonshielded cable, under 135 C temp. rating	2270	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Other elect. wire & cable, incl antenna lead in wire & prods. fabricated from wire & cable {excl fiber optic}	2272	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929A100-Total electronic wire & cable {sum of codes 2213-2272}	2298	2007						
		2006						
		2005						
Section II-TELEPHONE & TELEGRAPH WIRE & CABLE INCL. PRODUCTS FABRICATED FROM WIRE & CABLE {EXCL. FIBER OPTICS}								
335929B100-Station wire & cable	2503	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4	5	6
335929B100-Inside wiring cable	2509	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929B100-Other telephone and telegraph wire and cable	2513	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
335929B100-Total telephone and telegraph wire and cable {sum of item codes 2503-2513}	2598	2007						
		2006						
		2005						
Section III-POWER WIRE & CABLE {EXCL. FIBER OPTICS}, INCLUDING PORTABLE								
3359291800-Paper insulated cable {all types, all voltages}	3201	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Portable welding cables, 2 KV or less, plastic & rubber insulated	3203	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Underground distribution cable {UD, URD}, all insulations, 2 KV or less	3219	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Thermoplastic insulated power cable {exclude underground}, 2 KV or less	3231	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Armored, rubber & cross-linked, thermoset, insulated power cable	3233	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Unarmored, rubber {exclude single conductor UL labeled USE}, thermoset, insulated power cable	3235	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4	5	6
3359291800-Unarmored, cross-linked, thermoset, insulated power cable	3245	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Weatherproof plastic and rubber insulated cable	3249	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Service drop cable, thermoset and thermoplastic insulated	3257	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Underground distribution cable {UD, URD}, all insulations {jacketed & unjacketed} over 2 KV	3263	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Armored, rubber & x-linked {excl. underground}, thermoset insulated power cable, 2KV to 15KV	3267	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Unarmored, rubber {exclude single conductor UL labeled USE} thermoset insulated pwr cable 2 to 15KV	3271	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Unarmored, cross linked, {excl. underground}, thermoset insulated power cable 2 to 15 KV	3273	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Over 15.1 KV, rubber & cross linked thermoset insulate power cable	3275	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Other power wire and cable, INCLUDING PORTABLE	3279	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
3359291800-Total power wire & cable, including portable {sum of codes 3201-3279}	3298	2007						
		2006						
		2005						

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4	5	6
Section V-CONTROL AND SIGNAL WIRE AND CABLE								
335929F100-Signal wire and cable	4111	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Thermoset insulated control wire & cable {ex. elevator cable}	4115	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Thermoplastic insulated control wire & cable {ex. elevator cable}	4119	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
X X X-Total control and signal wire and cable {sum of codes 4111-4119}	4198	2007						
		2006						
		2005						
Section VI-BUILDING WIRE AND CABLE {EXCLUDE FIBER OPTICS}								
335929D100-Cross-linked polyethylene {XHHW} thermoset insulated	4242	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Cross-linked polyethylene {XLP, USE}, thermoset insulated	4244	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Flame-retardant nylon {THHN, THWN}, thermoplastic insulated	4246	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Moisture & heat resistant {TW, THW}, thermoplastic insulated	4248	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4	5	6
335929D100-Service entrance cable {SER, SEU, ASE}	4254	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Type NM-B-circuit building wire & cable	4256	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Type UF & NMC {corrosion resistant}, building wire & cable	4258	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Other building wire and cable, including metallic armored {AC & MC type}	4265	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929D100-Total building wire and cable {sum of codes 4242-4265}	4298	2007						
		2006						
		2005						
Section VII-APPARATUS WIRE & CORDAGE INCLUDING PRODUCTS FABRICATED FROM WIRE & CABLE EXCLUDE FIBER OPTICS								
Thermoset insulated, flexible cordage	5221	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Thermoplastic {include thermoplastic elastomers} flexible cordage	5223	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Extension cord sets	5225	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Fixed power supply cords	5227	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire				5	6
			-{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4		
Detachable power supply cords	5231	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Retractable power cords	5233	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Appliance fixture wire, apparatus wire	5235	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Thermoset and thermoplastic insulated appliance wiring material, 14 gauge and larger	5240	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Submersible pump cable, apparatus wire	5243	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
Other apparatus wire and cordage {include machine tool wire}	5247	2007		XXXXX		XXXXX		
		2006		XXXXX		XXXXX		
		2005		XXXXX		XXXXX		
X X X-Total copper and aluminum apparatus wire {sum of codes 5221-5247}	5298	2007						
		2006						
		2005						
Section VIII-OTHER INSULATED WIRE & CABLE INCLUDING PRODUCTS FABRICATED FROM WIRE & CABLE {EXCLUDE FIBER OPTICS}								
335929EF100-Bulk automotive primary wire	5310	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Bulk battery cable	5312	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTIONS I-VIII- Total Shipments of Insulated Wire & Cable, except magnet wire					
			-{Incl. Copper content M lbs}	interplant Aluminum content M lbs.	trans.}- Value \$1000	Inter-plant xfers Value \$1000		
			1	2	3	4	5	6
335929F100-Bulk ignition wire	5315	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Other automotive wire and cable	5318	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Airframe & missile cable {include ground support cable}	5324	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Shipboard cable	5328	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
335929F100-Other insulated wire and cable, not elsewhere classified	5331	2007				XXXXX		
		2006				XXXXX		
		2005				XXXXX		
X X X-Total other insulated wire and cable {sum of codes 5310-5331}	5398	2007						
		2006						
		2005						
SECTION IX - Total Shipments of Magnet Wire								
			--{Include Interplant Transfers}--				Interplant trans.	
			Copper M lbs	Aluminum M lbs	Value \$1000	Copper M lbs	Aluminum M lbs	Value \$1000
			gross wt.	gross wt.		gross wt.	gross wt.	
Section IX-MAGNET WIRE {Incl. insulated magnet sheet, strip, & foil but exclude fiber optics}								
7 AWG & larger round {incl. all square & rectangular} class 105 and below, film coated	6106	2007						
		2006						
		2005						

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTION IX - Total Shipments of Magnet Wire					
			--{Include Interplant Transfers}-- Copper		Aluminum		Interplant trans.	
			M lbs gross wt.	Value \$1000	M lbs gross wt.	Value \$1000	Copper M lbs gross wt.	Aluminum M lbs gross wt.
			1	2	3	4	5	6
8-21 AWG, class 105 & below film coated	6108	2007						
		2006						
		2005						
22-33 AWG and finer, class 105 & below, film coated	6113	2007						
		2006						
		2005						
8-21 AWG, class 130-155, film coated	6119	2007						
		2006						
		2005						
22-32 AWG, class 130-155, film coated	6121	2007						
		2006						
		2005						
33 AWG & finer, class 130-155, film coated	6125	2007						
		2006						
		2005						
7 AWG & larger round, [incl. all square & rectang] class 180 & above, film coated	6130	2007						
		2006						
		2005						
8-21 AWG, class 180 & above, film coated	6133	2007						
		2006						
		2005						
22-32 AWG, class 180 & above, film coated	6154	2007						
		2006						
		2005						
33 AWG & finer, class 180 & above, film coated	6155	2007						
		2006						
		2005						
Other film coated	6157	2007						
		2006						
		2005						

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTION IX - Total Shipments of Magnet Wire					
			--{Include Interplant Transfers}-- Copper M lbs gross wt. Value \$1000		Aluminum M lbs gross wt. Value \$1000		Interplant trans. Copper Aluminum M lbs M lbs gross wt. gross wt.	
			1	2	3	4	5	6
Fibrous, class 130 & below, nonfilm coated	6168	2007						
		2006						
		2005						
Tape, class 130 & below, nonfilm coated	6172	2007						
		2006						
		2005						
Fibrous, class 155 & above, nonfilm coated	6174	2007						
		2006						
		2005						
Tape, class 155 & above, nonfilm coated	6176	2007						
		2006						
		2005						
Other non-film coated	6188	2007						
		2006						
		2005						
X X X-Total magnet wire {sum of codes 6106 - 6188}	6199	2007						
		2006						
		2005						
			SECTION X - Total Shipments of Fiber Optical Cable					
			Qty cable conductor of kilometers cable 1000		Value of cable \$1000			
Section X-FIBER OPTICAL CABLE								
3359210201-Dispersion shift-ed, single-mode stepped-index, communication applications	8101	2007						
		2006						
		2005						

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PART I - Continued

Item (Product code - Description)	Item code	Report period	SECTION X - Total Shipments of Fiber Optical Cable					
			Qty cable conductor kilometers 1000	Value of cable \$1000				
			1	2	3	4	5	6
3359210201-Dispersion unshifted, single-mode stepped-index, communication applications	8102	2007						
		2006						
		2005						
3359210201-Multimode index, communication applications	8104	2007						
		2006						
		2005						
3359210301-Other applications	8120	2007						
		2006						
		2005						
X X X-Total fiber optical cable - {sum of items 8101-8120}	8199	2007						
		2006						
		2005						
			SECTION XI - Total Shipments of Optical Fiber					
				Value				
				\$1000				
Section XI- OPTICAL FIBER								
327215B231-Optical fiber used for data purposes	9101	2007	XXXXX					
		2006	XXXXX					
		2005	XXXXX					
327215B231-Optical fiber used for nondata purposes	9102	2007	XXXXX					
		2006	XXXXX					
		2005	XXXXX					
327215B231-Total optical fiber for data and nondata transmission {sum of items 9101 and 9102}	9103	2007	XXXXX					
		2006	XXXXX					
		2005	XXXXX					

PART I - Continued									
Item (Product code - Description)	Item code	Report period	SECTION XI - Total Shipments of Optical		Fiber	Value	\$1000	1	2
			3	4					
9999998900-Resales-Sales of products bought & sold w/o further manufacture, processing, or assembly	9973	2007	XXXXX						
		2006	XXXXX						
		2005	XXXXX						

If all your items are not listed, please use additional lines or a blank sheet of paper.

PART II Has there been any change in the ownership or operation of this establishment during this period?
 Yes - Indicate type of change below. No - Skip to Part III.

A. <input type="checkbox"/> Purchased from	Name of company	Address (Number and street, city, State, ZIP Code)	Date of change
B. <input type="checkbox"/> Sold to			
C. <input type="checkbox"/> Plant discontinued all operations	Date		
D. <input type="checkbox"/> Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced.			
E. <input type="checkbox"/> Reorganized - Describe in "Remarks;" e.g., partnership change or change in corporate status.			

PART III Do the figures shown on this report and on your last report cover the identical establishments?
 Yes No - Indicate reasons for difference in "Remarks."

PART IV Remarks

PART V CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized official	Title	Date
----------------------------------	-------	------

Complete and return this form in the envelope provided or to: **Bureau of the Census**
 1201 East Tenth Street
 Jeffersonville, IN 47132

NOTE: Please make a photocopy of this for your records.