Insulated Wire & Cable, a new study from The Freedonia Group, is designed to provide you with an in-depth analysis of major trends in the industry and the outlook for product segments and major markets -- critical information to help you with strategic planning.

This brochure gives you an indication of the scope, depth and value of Freedonia’s new study, Insulated Wire & Cable. Ordering information is included on the back page of the brochure.

Brochure Table of Contents

Study Highlights ............................................................................... 2
Table of Contents and List of Tables and Charts ............................. 4
Sample Pages and Sample Tables from:
  Market Environment .................................................... 6
  Products & Materials ................................................... 7
  Markets ........................................................................ 8
  Industry Structure ........................................................ 9
  Company Profiles ...................................................... 10
  List of Companies Profiled ............................................. 11
Forecasting Methodology ............................................................... 12
About the Company ....................................................................... 13
Advantages of Freedonia Reports ................................................... 13
About Our Customers .................................................................... 14
Other Titles From Freedonia......................................................... 15
Ordering Information ..................................................................... 16
US Demand

- Demand for insulated wire and cable in the US is forecast to rise 5.1 percent annually (including price increases) through 2004, reaching $22.7 billion.

- Despite the onset of wireless technology, the communications market will continue to be the largest end use, due to the wide range of applications involved.

- US shipments of insulated wire and cable are projected to increase 5.2 percent annually through 2004, reaching $23.6 billion.

- Fiber optic cable is expected to have the strongest growth prospects, as it continues to extend beyond long distance communications applications and into markets such as multimedia.

- Coaxial and other copper-based electronic cable will continue to register gains, benefitting from technological innovations in advanced electronic signal transmission methods.

Industry Structure and Participants

- The top six producers -- Alpine, General Cable, Southwire, Lucent Technologies, Belden and Alcatel -- accounted for 38 percent of total US demand in 1999.

- Due to the comparatively low barriers to entry and extensive niche market opportunities, mid-sized and smaller concerns will remain quite prevalent in the US insulated wire and cable business.

* Excluded from the scope of the study are bare wire and other types of noninsulated wire products, as well as complete wiring harnesses and wiring sets (although separately sold wire utilized in such products are included).
### Insulated Wire & Cable Supply & Demand

(million dollars)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Fixed Investment (bil $)</td>
<td>1035</td>
<td>1577</td>
<td>1860</td>
<td>2270</td>
<td>8.8</td>
<td>3.4</td>
</tr>
<tr>
<td>$ wire &amp; cable/000$ invest</td>
<td>12.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulated Wire &amp; Cable Demand</td>
<td>12865</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building</td>
<td>2700</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic</td>
<td>2255</td>
<td>3100</td>
<td>4110</td>
<td>5530</td>
<td>6.6</td>
<td>5.8</td>
</tr>
<tr>
<td>Telephone</td>
<td>1725</td>
<td></td>
<td></td>
<td></td>
<td>5.9</td>
<td>3.2</td>
</tr>
<tr>
<td>Power</td>
<td>1625</td>
<td></td>
<td></td>
<td></td>
<td>4.7</td>
<td>5.0</td>
</tr>
<tr>
<td>Fiber Optic</td>
<td>1090</td>
<td></td>
<td></td>
<td></td>
<td>4.6</td>
<td>4.2</td>
</tr>
<tr>
<td>Magnet</td>
<td>1090</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transportation Equipment</td>
<td>865</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apparatus</td>
<td>990</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>525</td>
<td>705</td>
<td>875</td>
<td>1090</td>
<td>6.1</td>
<td>4.4</td>
</tr>
<tr>
<td>+ net exports</td>
<td>530</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulated Wire &amp; Cable Shpts</td>
<td>13395</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>price deflator (1996=100)</td>
<td>93.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insul Wire, Cable Shpt (mil 1996$)</td>
<td>14264</td>
<td>20770</td>
<td>24967</td>
<td>30405</td>
<td>7.8</td>
<td>3.7</td>
</tr>
</tbody>
</table>

SUMMARY TABLE

© Copyright by The Freedonia Group, Inc.
List of Contents, Tables and Charts

I. EXECUTIVE SUMMARY
   Summary Table ................................................................. 3

II. MARKET ENVIRONMENT
   General ................................................................................. 4
   Economic Environment ....................................................... 5
   Cyclical Trends ................................................................... 5
   Technology ....................................................................... 14
   Basic Electrical Properties ............................................... 15
   Electronics Technology ..................................................... 17
   Conventional Wiring Materials & Methods ...................... 18
   Fiber Optics ...................................................................... 19
   Multiplex Wiring & High-Bandwidth Cable .................... 20
   International Environment .............................................. 21
   World Supply & Demand .................................................. 21
   Table - World Insulated Wire & Cable Demand by Region ... 23
   US Foreign Trade ............................................................ 24
   Table - US Foreign Trade in Insulated Wire & Cable ....... 25
   Exports ......................................................................... 25
   Chart - US Insulated Wire & Cable Exports by Region, 1999 . 27
   Imports ......................................................................... 27
   Chart - US Insulated Wire & Cable Imports by Region, 1999 ... 28

III. WIRE & CABLE MATERIALS
   General ............................................................................... 29
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30
   Table - Primary Insulated Wire & Cable Materials Demand .... 30

IV. WIRE & CABLE PRODUCTS
   General ............................................................................... 41
   Table - Insulated Wire & Cable Supply & Demand .......... 43
   Building Wire & Cable ..................................................... 43
   Table - Building Wire & Cable Supply & Demand .......... 46
   Thermoplastic-Insulated ............................................... 46
   PVC ............................................................................... 47
   Other ............................................................................... 47
   Electronic Wire & Cable .................................................... 48
   Table - Electronic Wire & Cable Supply & Demand ....... 49
   Multiconductor ............................................................... 50
   Table - Multiconductor Wire & Cable Demand ............ 51
   Coaxial .......................................................................... 51
   Table - Coaxial Wire & Cable Demand ......................... 52
   Other ............................................................................... 53
   Table - Other Electronic Wire & Cable Demand .......... 54
   Telephone Wire & Cable .................................................. 54
   Table - Telephone Wire & Cable Supply & Demand ...... 56
   Exchange Area & Toll Cable .......................................... 56
   Other Types ..................................................................... 57
   Power Wire & Cable .......................................................... 58
   Table - Power Wire & Cable Supply & Demand .......... 60
   Underground Distribution ............................................. 60
   Table - Underground Distribution Cable Demand ..... 61
   Portable .......................................................................... 61
   Table - Portable Power Wire & Cable Demand .......... 62
   Other ............................................................................... 63
   Table - Other Power Wire & Cable Demand ............ 64

Metals ............................................................................... 30
Table - Metals Content in Insulated Wire & Cable .......... 31
Copper .............................................................................. 31
Table - Copper Content by Insulated Wire & Cable Product . 33
Aluminum & Other Metals ............................................. 33
Table - Other Metals Content in Insulated Wire & Cable .... 34
Major Plastics .................................................................... 35
Table - Major Plastics Content in Insulated Wire & Cable .. 36
Polyethylene ................................................................. 36
Polyvinyl Chloride .......................................................... 37
Nylon ............................................................................... 38
Thermoplastic Elastomers ............................................... 38
Polypropylene ................................................................. 39
Optical Fibers .................................................................. 39

Insulated Wire & Cable #1277 Freedonia Industry Study
Market Environment

The Market Environment Section discusses factors influencing insulated wire and cable demand, including pricing trends and technological advances.

This information provides you with an understanding and an analysis of the climate in which the insulated wire and cable industry operates.

MARKET ENVIRONMENT

Conventional Wiring Materials & Methods

Current is transmitted within and among electrical/electronic systems and subsystems via conductors, devices possessing the appropriate physical and electrochemical properties to carry electric current. Although not the only ones, wire and cable are among the most widely used conductors. Electric wire takes the form of slender, flexible metallic, with copper, aluminum or some all material. Given its favorable combination of strength, corrosion resistance, malleability and ductility, copper has been the preferred material of conductance since the dawning of the electricity age. Wire can be either bare or insulated (with this study covering the latter type), with insulation defined as both primary (directly protecting the conductor) and secondary (jacketed or sheathed over the primary insulation). Thermoplastic resins comprise the principal primary insulating materials, and they are also widely used for jacketing and sheathing, although rubber and thermoset plastics find utilization as well, particularly in secondary insulation.

Cable refers to an assembly of insulated conductors, usually flexible, multistrand wires. Cable assemblies are defined as cables that are connector-terminated at one end, and manufactured ready for installation. Cords are special types of small, flexible, insulated cables used in household appliances and other lower power or less ruggedized applications. A cord set is a special type of cable assembly designed to connect an electrical or electronic system with an electrical power source, such as a wall outlet.

Fiber Optics

Fiber optic cable, composed of strands of glass, ceramic or plastic fiber, receives and transmits signals at the lightwave frequencies, and is thus both much faster and
Products & Materials

The Product and Material Sections provide demand for historical years and forecast growth to 2004 and 2009.

This information helps you:

- Analyze your company’s growth potential in the industry.
- Outline your strategic plans for five and ten years out.
- Establish sales goals.

Fiber Optic Cable

Demand for fiber optic cable is forecast to rise 11.3 percent per year through the 2004 to 2009 period. The superior signal-carrying capability of optical fiber cable compared to copper-based alternatives, a feature that has become increasingly valued as bandwidth requirements increase with the spread of high-speed global computer networks such as the Internet. In addition, these performance attributes will benefit opportunities in multimedia applications. However, these factors will be offset to some extent by the rapid saturation of fiber optics in the large long-distance telecom market in the past decade, which will limit future growth in comparison. Producers will also continue to develop improved copper-based products, also potentially dampening gains.

In addition to opportunities in the US market, domestic producers will maintain a significant trade surplus in fiber optic cable. Developing nations will offer export opportunities due to the installation of telecommunications systems. For example, telecommunications equipment demand in Mexico is expected to rise at double digit rates for the next few years.

Fiber optic cable, composed of strands of glass, ceramic or plastic fiber, transmits electronic signals as pulses of light rather than electric current as in other types of wire and cable products, and is thus both faster and more secure than coaxial and competing cable in a range of signal transmission settings. Fiber optic cable is expected to expand its presence well beyond the long-distance telecommunications business where it has already established dominance, including into local telecom service and other forms of electronic signal transmission, culminating in multimedia. Steady improvements in performance/price tradeoffs (i.e., cost-efficiency) will continue to enhance fiber optics’ competitiveness with copper wire and cable in an increasing array of actual and potential applications.

Copper Content by Insulated Wire & Cable Product

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulated Wire &amp; Cable Metals Content</td>
<td>3755</td>
<td>4110</td>
<td>4855</td>
<td>6175</td>
<td>7235</td>
</tr>
<tr>
<td>% copper</td>
<td>84.7</td>
<td>82.4</td>
<td>77.3</td>
<td>73.7</td>
<td>69.8</td>
</tr>
<tr>
<td>Insul Wire &amp; Cable Copper Content</td>
<td>3180</td>
<td>3410</td>
<td>4085</td>
<td>4550</td>
<td>5050</td>
</tr>
<tr>
<td>Building</td>
<td>1245</td>
<td>1260</td>
<td>1460</td>
<td>1570</td>
<td>1725</td>
</tr>
<tr>
<td>Magnet</td>
<td>500</td>
<td>610</td>
<td>700</td>
<td>815</td>
<td>955</td>
</tr>
<tr>
<td>Telephone</td>
<td>475</td>
<td>540</td>
<td>605</td>
<td>625</td>
<td>610</td>
</tr>
<tr>
<td>Power</td>
<td>310</td>
<td>335</td>
<td>370</td>
<td>430</td>
<td>505</td>
</tr>
<tr>
<td>Apparatus</td>
<td>240</td>
<td>200</td>
<td>270</td>
<td>295</td>
<td>320</td>
</tr>
<tr>
<td>Electronic</td>
<td>205</td>
<td>195</td>
<td>250</td>
<td>275</td>
<td>295</td>
</tr>
<tr>
<td>Other</td>
<td>205</td>
<td>270</td>
<td>430</td>
<td>540</td>
<td>640</td>
</tr>
</tbody>
</table>

© Copyright by The Freedonia Group, Inc.
The Markets Section analyzes trends and considers the threats and opportunities in each of the major markets for insulated wire and cable.

The information presented will help you:

- Focus your sales and marketing efforts on high growth areas.
- Propose new areas for development.

Information Processing Wire & Cable Demand
(million dollars)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer &amp; Office Equip Shpts (bil $)</td>
<td>59.9</td>
<td>84.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$ wire &amp; cable/000$ shpt</td>
<td>20.5</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Process Wire &amp; Cable Demand</td>
<td>1230</td>
<td>193</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiconductor</td>
<td>560</td>
<td>790</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coaxial</td>
<td>345</td>
<td>400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fiber Optic &amp; Other</td>
<td>325</td>
<td>745</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% info proc</td>
<td>11.2</td>
<td>15.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Insulated Wire &amp; Cable Demand</td>
<td>10980</td>
<td>12865</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

© Copyright by The Freedonia Group, Inc.
Industry Structure

Gain a better understanding of your competition and analyze your company’s position in the industry with information about:

- Industry composition & market share
- Manufacturing
- Product development
- Marketing & distribution
- Mergers & acquisitions
- Financial issues & requirements

INDUSTRY STRUCTURE

Marketing & Distribution

As with any industry, effective marketing is a key factor for success in the insulated wire and cable business. The principal marketing-related competitive variables for the industry are price, product quality and performance, delivery time and company reputation. The importance of each factor varies according to the type of product or application.

Channels of distribution are determined by the nature of the product and intended application. Many wire and cable products such as power and signal wire and cable, fiber optic cable for long-distance telecom applications, and wire and cable designed for OEM installation in industrial/electrical products -- are sold directly to the end user. Other items (and sometimes the above-mentioned ones as well) are sold through electrical/electronic equipment distributors (customer premises wiring for computer networking, for example), hardware distributors, automotive parts distributors, and any number of others, including retailers such as home center stores and mass merchandisers (for consumer-oriented products like extension cords). Overseas, US-based manufacturers often supplement internal sales forces with independent representatives familiar with the needs of local end users. Many also maintain foreign-based manufacturing facilities, which helps to minimize transportation and distribution costs.

Wire and cable producers are investing in education of their sales, marketing and support staff as a means of improving customer service. For example, Belden has developed an engineering center that trains engineering students on how to select wire and cable products for specific, specialized situations.

Participation in trade shows, distribution of product literature and other promotional materials, and advertising in trade and technical journals are important...
The Profiles Section analyzes 39 companies active in the U.S. insulated wire and cable market. These profiles represent a sampling or cross-section of the types of companies involved in the industry.

Divisions, subsidiaries, joint ventures, etc., are discussed under appropriate parent companies.

Sources for profiles included:

- Information provided by key staff members in the respective companies
- Annual reports
- 10-K reports
- Security analysts reports
- Corporate product literature

Belden Incorporated
7701 Forsyth Boulevard, Suite 800
St. Louis, MO 63105
314-854-8000

Belden is engaged in the design, manufacture and marketing of wire, cable and cord products for electronics, electrical and telecommunications applications. In June 1999, Belden acquired Cable Systems Holding Company (Phoenix, Arizona), a $300 million producer of copper telecommunications cable, and renamed it Belden Communications Company (BCC). Following the acquisition, Belden operates through two segments: Electronics and Communications. In 1999, Belden had revenues of $300 million. The Company employed 5,400 in FY 1999.

The Company produces wire and cable through both of its segments. The Electronics segment accounted for 55% of revenues for 1999. The segment designs, manufactures and markets various wire, cable and fiber optic product configurations. The segment’s products are used in four major markets: Networking (premise products for the transmission of voice, data or video); Industrial (factory automation, signal and control, industrial equipment and instrumentation equipment); Entertainment and Original Equipment Manufacturer (OEM) (broadcast and OEM applications, and deflection coil products); and Communications (telecom applications, exchange and service distribution wire, and broadband products).

For the Networking market, Belden supplies shielded and unshielded multiconductor cables and coaxial cables for use within a building’s premises for the transmission of voice, data or video, or a combination of the three. Belden’s multiconductor product line for the Networking market includes plenum cable, which consists...
Companies Profiled

Alcan Aluminium Limited
Alcatel SA
Berk-Tek Communications Corporation
Alcoa Incorporated
Aluminum Company of America
Six R Communications LLC
Alpine Group Incorporated
Essen International Incorporated
Superior TeleCom Incorporated
Amphenol Corporation
Times Fiber Communications Incorporated
Andrew Corporation
Avnet Incorporated
Belden Incorporated
Cable Systems Holding Company
Cable Design Technologies Corporation
Carlisle Companies Incorporated
QMI Company
Tensolite Company
Corning Incorporated
Siecor Corporation
Delphi Automotive Systems Corporation
DuPont (EI) de Nemours
Encore Wire Corporation
Furukawa Electric Company Limited
Phillips-Fitel Incorporated
General Cable Corporation
BICCGeneral
Genca Corporation
GenTek Incorporated
Noma Industries Limited
Northern Lights Cable Incorporated
Hitachi Limited
Hubbell Incorporated
Insilco Holding Company
Escod Industries Incorporated
TATT Technology
International Wire Group Incorporated
Labarge Incorporated
Leviton Manufacturing Company Incorporated
American Insulated Wire Corporation
Lucent Technologies Incorporated
Fitel Lucent Technologies
LITESPEC Optical Fiber LLC

MagneTek Incorporated
Marmon Group Incorporated
Aetna Insulated Wire Company
Cable USA Incorporated
Cerro Wire & Cable Company Incorporated
General Cable Industries Limited
Harbour Industries Incorporated
Hendrix Wire & Cable Corporation
Kerite Company
Owl Wire and Cable Incorporated
Rockbestos-Surprenant Cable Corporation
Molex Incorporated
National Wire & Cable Corporation
Okonite Company
Pitrelli SpA
Rea Magnet Wire Company Incorporated
Algonquin Industries
Rome Cable Corporation
Southwire Company
NSA
Sumitomo Electric Industries Limited
Judd Wire Corporation
Tandy Corporation
AmeriLink Corporation
Thomas & Betts Corporation
Tyco International Limited
AFC Cable Systems Incorporated
Raychem Corporation
Simplex Technologies Incorporated
Viasystems Group Incorporated

Insulated Wire & Cable #1277

Order form on last page
Freedonia does not just collect and reprint data; Freedonia develops data. Our analysts thoroughly investigate an industry by extensively interviewing key industry participants and analyzing information from sources such as associations, government and trade literature. Once this research is complete, Freedonia establishes one set of forecasts. All writing, editing and forecasting is done in-house to assure quality and consistency. In cases where data does not exist, Freedonia develops the data based on input/output ratios, bills of materials and flow charts. The following chart summarizes Freedonia's methodology:
The Freedonia Group, Inc. is a leading international industry study/database company.

Since 1985, Freedonia has published over 1,500 titles covering areas such as chemicals, coatings and adhesives, building materials, plastics, industrial components and equipment, health care, packaging, household goods, security, and many other industries.

Freedonia has produced a wide variety of titles, including:

- OEM Automotive Electronics in North America
- World Major Household Appliances
- Glass Fibers
- Fuses & Circuit Breakers

Because Freedonia is a reliable information source, our forecasts are cited in numerous publications such as The Wall Street Journal, The Financial Times, Purchasing and USA Today.

In-house operations
Because all of our staff work at the same location, interaction between analysts and departments provides a strong system of checks and balances.

Consistency
Our Economics Group develops indicators that are used by all analysts. Therefore, every Freedonia study is based on a consistent set of economic assumptions (GDP, utilities construction expenditures, communications equipment shipments, etc.)

Reliable forecasts
Because all of our forecasts consider the environment in which a product or industry is operating, as well as threats and opportunities to the market, Freedonia forecasts are reliable indicators of future performance.

One-on-one interviews
All studies are produced by conducting interviews with key industry participants and end-users.

Proprietary electronic database
Freedonia’s analysts can tap into an extensive in-house electronic database containing corporate literature (including private company information), trade publications, government reports and many other sources of information.

About The Freedonia Group

Advantages of Freedonia Reports

Insulated Wire & Cable #1277

Order form on last page
About Our Customers

Freedonia's clients include major US and international companies in the manufacturing, services, consulting and financial sectors.

Typical purchasers of Freedonia studies:

- Key Executives
- Corporate Planners
- Market Researchers
- Financial Analysts
- Information Centers
- New Product Developers
- Merger & Acquisition Specialists

Since 1985 we have provided research to customers ranging in size from global conglomerates to one-person consulting firms. More than 90% of the industrial companies in the Fortune 500 use Freedonia research to help with their strategic planning.

Some of Freedonia's customers in the insulated wire and cable market include: Phelps Dodge Corporation, DuPont (EI) deNemours and Cable Design Technologies.
OEM Automotive Electronics in North America
The original equipment (OEM) market for auto electronics in the US, Canada and Mexico will grow over 6% per annum. Gains will be fueled by the use of electronics to differentiate vehicle models and markup prices. Navigation and instrumentation will lead gains, with head-up displays, collision avoidance and intelligent air bags also doing well. This study analyzes the North American OEM auto electronics industry to 2004 and 2009 by type and country. It also evaluates market shares and profiles key companies.
#1254. . . . . . . . . 4/00. . . . . . . . . . $3,700

World Major Household Appliances
World demand for major household appliances will increase at a relatively healthy pace (by recent historical standards) through the early years of the new century, as recovering demand within the developing nations offsets generally sluggish growth within the mature markets of the industrialized world. This study analyzes the major household appliances industry to 2003 and 2008 by type and geographic region, and for over 20 individual countries. The study also presents market share and profiles selected companies.
#1218. . . . . . . . . 2/00. . . . . . . . . . $4,400

Fuses & Circuit Breakers
Demand for fuses and circuit breakers in the US will reach $3.8 billion in 2003, with most OEM markets experiencing cyclical moderation. Aftermarket prospects, however, are favorable in most segments (e.g., industrial machinery, motor vehicles). In addition, the electric power generation sector will enjoy an improved investment climate. This study analyzes the $3 billion US fuses and circuit breakers industry to 2003 and 2008 by product and market. It also presents market share and profiles key companies.
#1107. . . . . . . . . 3/99. . . . . . . . . . $3,400

Insulated Wire & Cable - Private Companies Report
Several hundred private firms compete in the $15 billion insulated wire and cable industry. The second largest producer is a private firm and at least four other private companies hold over one percent of the overall market. This report profiles more than 150 privately-held insulated wire and cable producers including International Wire, Leviton Manufacturing, Marmon Group, Rea Magnet Wire and Southwire. In addition, the report forecasts demand by type, material and market and evaluates market shares.
#1055. . . . . . . . . 11/98. . . . . . . . . . $3,000

Automotive Aftermarket in North America
The aftermarket for light vehicle parts in North America will grow over 5% per annum, based mainly on the aging of the light vehicle park. Also driving demand will be the number of vehicles added during the strong 1992-1997 market, and the growing popularity of larger vehicles. This study analyzes the automotive aftermarket in the US, Canada and Mexico to 2002 and 2007 by country and product. It also profiles key companies and details market shares.
#1026. . . . . . . . . 7/98. . . . . . . . . . $3,400

Glass Fibers
Textile glass fibers will grow faster than glass wool (fiberglass) insulation as a result of opportunities in reinforced plastics used in construction and motor vehicles. Fiberglass insulation will be stimulated by rising energy standards and residential aftermarket activity, yet be constrained by declining housing starts and competition from foamed plastics. This study analyzes the 5.8 billion pound US glass fiber industry to 2003 and 2008 by product and market. It also evaluates market share and profiles key firms.
#1122. . . . . . . . . 5/99. . . . . . . . . . $3,500

Lamps
Replacement demand for the large installed base of lamps in all building types will drive gains. Continuing retrofit projects encouraged by government and public utility incentives and end-users' desire to control energy costs will also support growth. Increased demand for higher value products such as fluorescents and HIDs will boost average unit prices. This study analyzes the $3.7 billion US lamp industry to 2003 and 2008 by market and lamp type. It also profiles leading companies and presents market share data.
#1173. . . . . . . . . 12/99. . . . . . . . . . $3,400
How to Order

Ordering Information
Fill out the coupon below and mail it to The Freedonia Group, or send your order by fax (440) 646-0484, or E-mail to info@freedoniagroup.com

Handling and Shipping is FREE
There is NO charge for handling and shipping. In the US we ship via UPS. Outside the US, we provide free airmail service. If you would like express delivery, we provide this to you at cost.

Discounts
If your order is accompanied by a check, you may take a 5% cash discount. If you order three (3) separate industry studies and/or private company reports at the same time, you are entitled to a 15% discount.

Use Credit Card
You may charge your order to either Visa, MasterCard or American Express. Please include your credit card account number, expiration date and your signature.

Orders Outside of the US
Checks must be paid in US funds and drawn against a US bank. Wire transfers should be sent to: Fifth Third Bank, Cincinnati, Ohio; The Freedonia Group, Inc.; SWIFT #FTBCUS3C; ABA #042000314; Account #830-51814 (please include study number and/or invoice number with all wire transfers).

Additional Copies
Additional copies are available to original purchasers at $390 per title.

Online Access
The complete text and tables from our studies and reports can be found on our Web site www.freedoniagroup.com and through major commercial online vendors.

Intranet Licenses
Intranet licenses are available for one or more users. For information about obtaining a Freedonia intranet license, contact our customer service department.

THE FREEDONIA GROUP, INC.
767 Beta Drive
Cleveland, OH 44143-2326 USA
Phone: (440) 684-9600 • (800) 927-5900
Fax: (440) 646-0484

Name: ______________________________________
Title: ______________________________________
Company: __________________________________
Division: __________________________________
Street: _____________________________________
(no PO Box please)
City/State/Zip: ________________________________
Country: _____________________________________
Phone: __________________ Fax: ________________
Email: ______________________________________

Please check method of payment: Total: $__________
[ ] Enclosed is my check (5% discount) drawn on a US bank and payable to The Freedonia Group, Inc., in US funds. (Ohio residents add 7% sales tax).
[ ] Bill my company [ ] MasterCard [ ] Visa [ ] American Express

K-SM.1277

SHIPPING and HANDLING charges are FREE via UPS (USA only) or airmail. Express delivery available at cost. Please inquire.

Signature: ____________________________