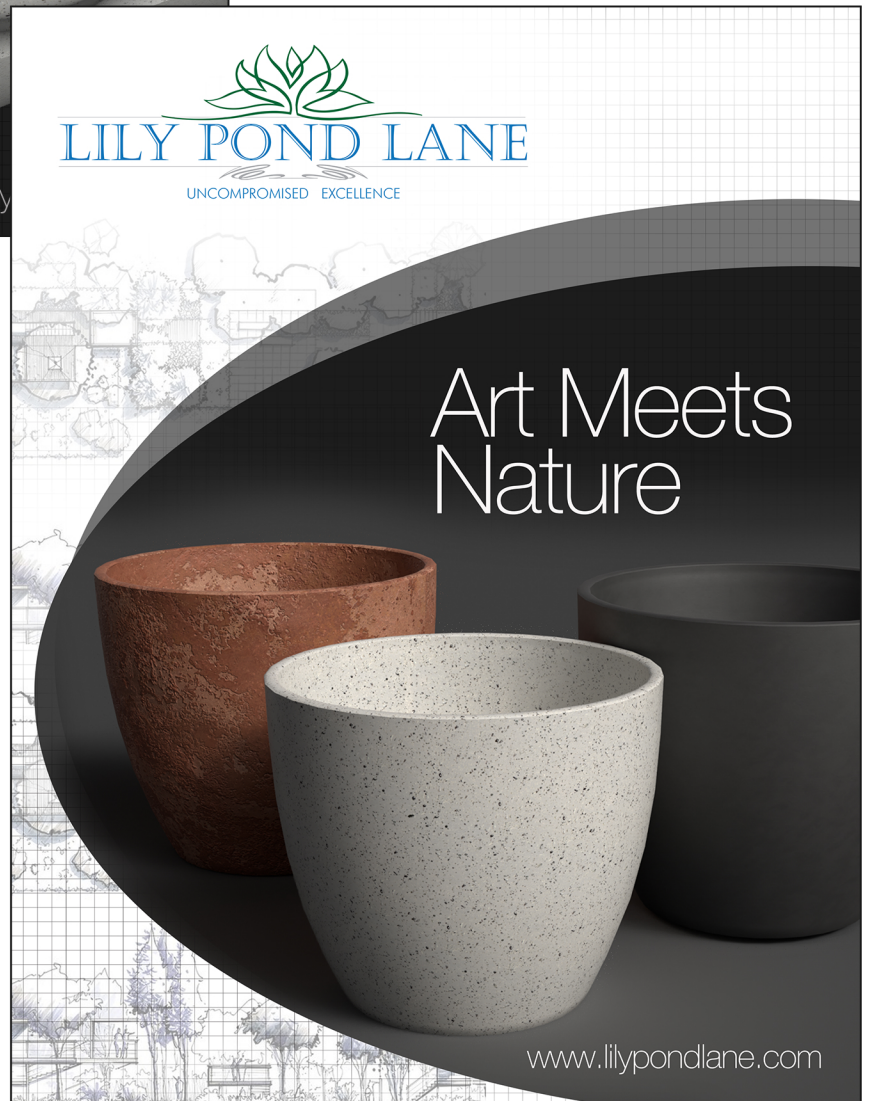
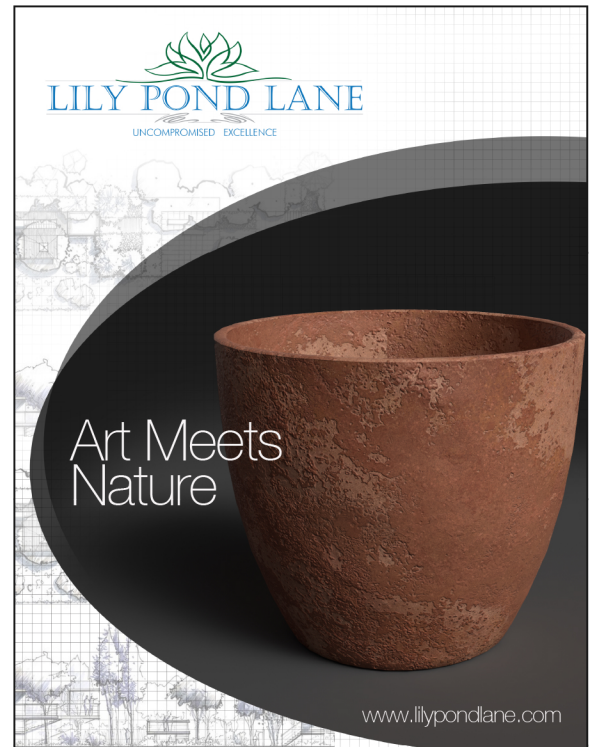
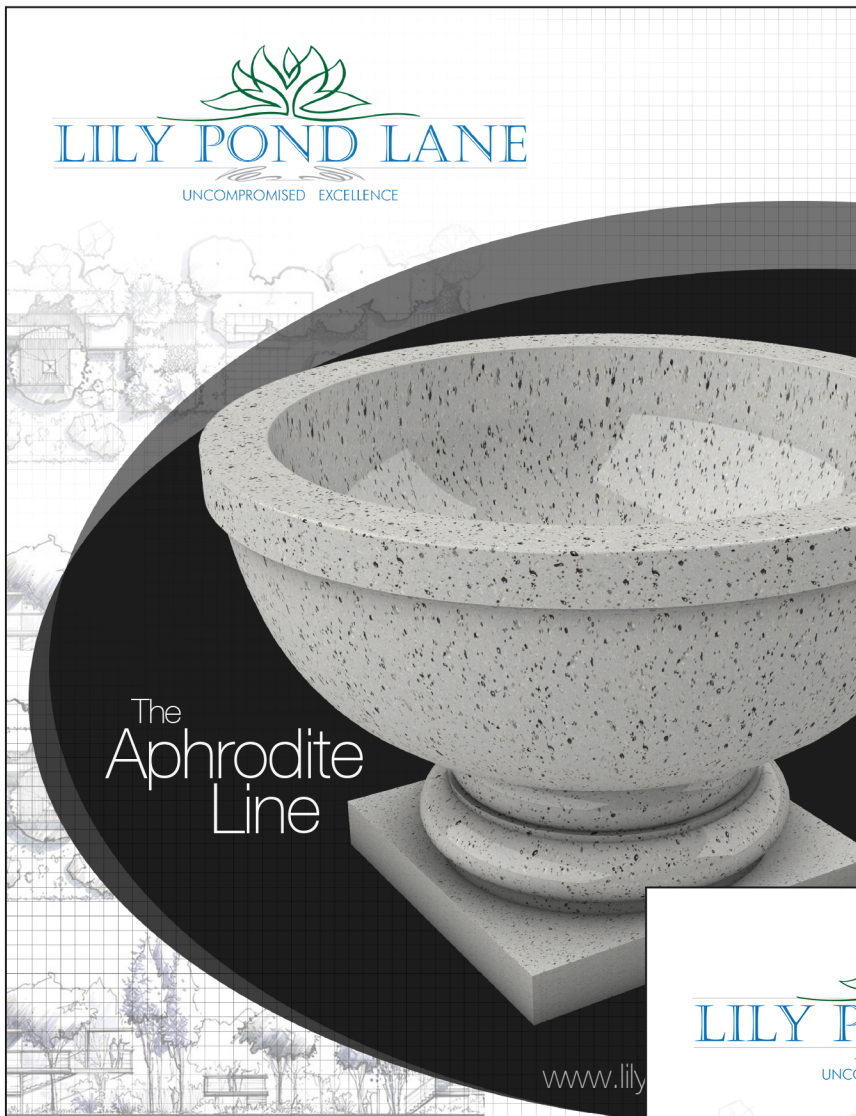


**Branding Project utilizing
3D Modeling and Rendering.**



3 Fold DOD Targeted brochure

"We build cable for mission critical programs to ensure mission success."

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900 Park Avenue • Manchester, New Hampshire 03109 USA
Tel: 603.665.4347 • Sales: 800.772.0116 • Fax: 603.665.9621
www.hca.hitachi-cable.com

FEDERAL PRODUCTS & Applications

Fiber Optic Cables (From 1 to 432 Strands)
Indoor Armored
Indoor Tight Buffered
Indoor Loose Tube for MTP/MPO Connectors
Indoor/Outdoor Rated
Indoor/Outdoor Armored Tight Buffered Plenum Rated
Outside Plant High Strand Count Gel Filled
Outside Plant Armored
Custom Fiber Cables

Since 1986, Hitachi Cable America (HCA) has been designing and building advanced communication cables for the telecommunications industry. Located in Manchester, New Hampshire, our 300,000 square foot facility produces over 4,000 different cables. Products manufactured include high performance copper and fiber optic communication cables, as well as flat and round electronics cables. HCA products are used worldwide across a wide spectrum of industries, including medical, financial, manufacturing and educational. HCA, however, is most proud of the products that have been chosen and are currently being used by the U.S. government. From our high-speed shielded Category 6A network cables to our armored fiber optic cables, HCA products are deployed not just in federal agencies across the U.S., but at its military installations both domestic and abroad. At HCA, we realize the important role our products play daily in keeping our country and those who defend her safe. And, with HCA's Open System Architecture approach to solution performance and solutions warranties, you're provided options that many of our competitors simply can't offer.

Visit our New Hampshire facility and you will see for yourself that no cable manufacturer is as dedicated to quality and performance as Hitachi Cable America is.

Access Control
Security (CCTV)
PoE, PoE++
Wireless Access Points

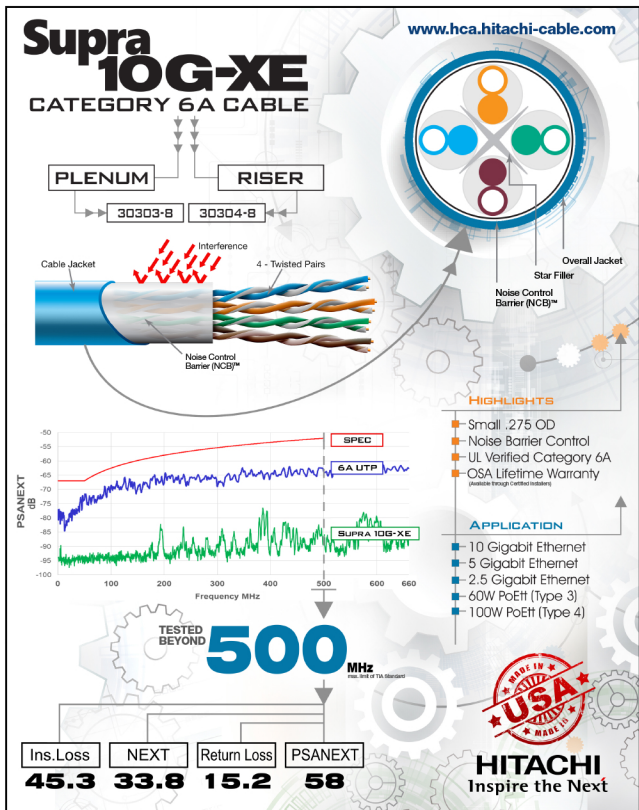
Where are HCA products used?

SCIF Environments
Data Centers
Barracks
Cyber Security
Cloud Computing
Plenum Environments
Harsh Environments
SIPERNET
NIPERNET

HCA Cables are TEMPEST approved.

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Examples of InfoGraphics

3 Fold Promotional folder



Sourcing from New England

HCA sources the raw material, cardboard packaging and the copper rod from which the wire is drawn, within a 100 mile radius of our manufacturing facility. An environmental awareness has increased, so has HCA's commitment to minimize its impact on both the environment around our manufacturing facility and the locations at which our products are installed.



Potential for LEED Points

In regards to U.S. Green Building Council LEED points, HCA offers a number of opportunities where end-users can submit for LEED points. LEED points are available for Regional Materials (1 point), Innovation in Design (1-5 points) and Construction Waste Management (1-2 points). Points may also be obtained for Construction Waste Management by properly recycling all HCA cardboard packaging. HCA is pleased to be able to provide opportunities for LEED points. As we continue to improve our products and our manufacturing facility, we hope to increase the number of LEED point opportunities we can provide.

Customer Pride

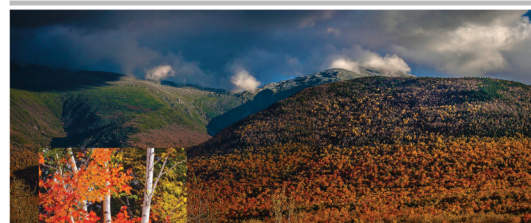
From Boston, Massachusetts to Bar Harbor, Maine and everywhere in between, we take exceptional pride in providing our cables to local companies and institutions. Hundreds of New England companies, colleges and universities utilize our cables. Many of them have even come to our Manchester facility for a tour and to learn how copper and fiber optic communication cables are made. In fact, prospective customers from around the country regularly come to Manchester to see how we make our cables. If they haven't decided on a cable manufacturer before their visit, they have after.



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Made In New England

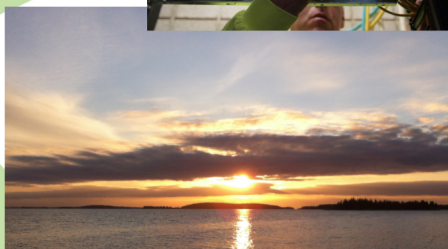
Hitachi Cable America Inc.

About Hitachi Cable America

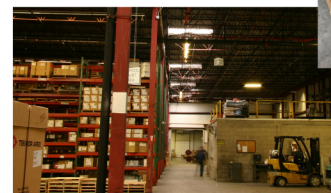
Hitachi's expertise in making cable goes back well over 100 years. Though we are known globally for engineering superior products that deliver industry leading performance, we in New Hampshire also take great pride in our New England roots. In 1986, Hitachi Cable America (HCA) was established in Manchester as the U.S. manufacturing location for copper and fiber optic communication cables for North America. Over the years our product offering has evolved from a handful of specialized cables to a wide range of cables for an ever-growing list of applications. Our 300,000 square-foot facility in Manchester, New Hampshire now manufactures over 4,500 different cables. HCA employs over 200 people and runs twenty-four hours a day, seven days a week, supporting local, national and international customers. Products manufactured at HCA include high performance copper and fiber optic communication cables, flat and round electronics cables and custom cables. These cables support popular applications such as Ethernet, Industrial Ethernet, data centers, cellular and DAS wireless applications, robotics, aerospace, medical, oil & gas exploration, mining and more.



HCA is a technology leader in the design and manufacture of cables and has many notable achievements, including the first UL verified Category 6A cable and Drybit™, the first plenum-rated, indoor/outdoor Category 6 and 6A cables designed for wet places and plenum spaces.



detection sensors. So, while in the warehouse remain unit unless someone enters an aisle and triggers a motion sensor. To add additional light, there are 00 skylights spread through the manufacturing and warehouse areas.



HCA recycles 100% its cardboard waste and 100% of its white office paper waste. During an average month, HCA recycles nearly 14,000 pounds of cardboard and 2,000 pounds of white office paper including junk mail, catalogs, magazines, etc. HCA's goal is to limit the amount of material going to a landfill to as small an amount as possible. This message has been communicated to all employees. To further help limit what goes to the landfill, the employee took it upon themselves to initiate a recycling program that includes all aluminum can and plastic bottle waste generated by employees. The cans and bottles are accumulated and then sent for recycling when quantities are sufficient.



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High Performance Medical Solutions

- Discrete & Bundled Cable
- Catheter Tubing
- Medical Machining
- Assembly & Fabrication Services




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REACHCompliant



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 **World Class
Cable Solutions for
Energy and Harsh
Environments**

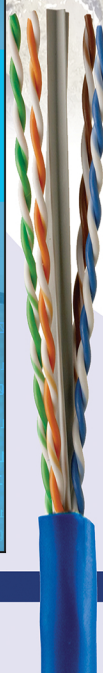
 **Copper &
Fiber Optic Cables**

*Take your network
performance to new
heights by selecting
a superior cable...*

Supra 10G-XE

*Finally a UTP cable with
shielded performance...*

- Small .275" OD
- UL Verified 6A
- +6 dB Guaranteed ANEXT
- Mates to all Cat 6A UTP connectivity
- Available Lifetime Warranty



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Tradeshow Booth Designs

IT Solutions

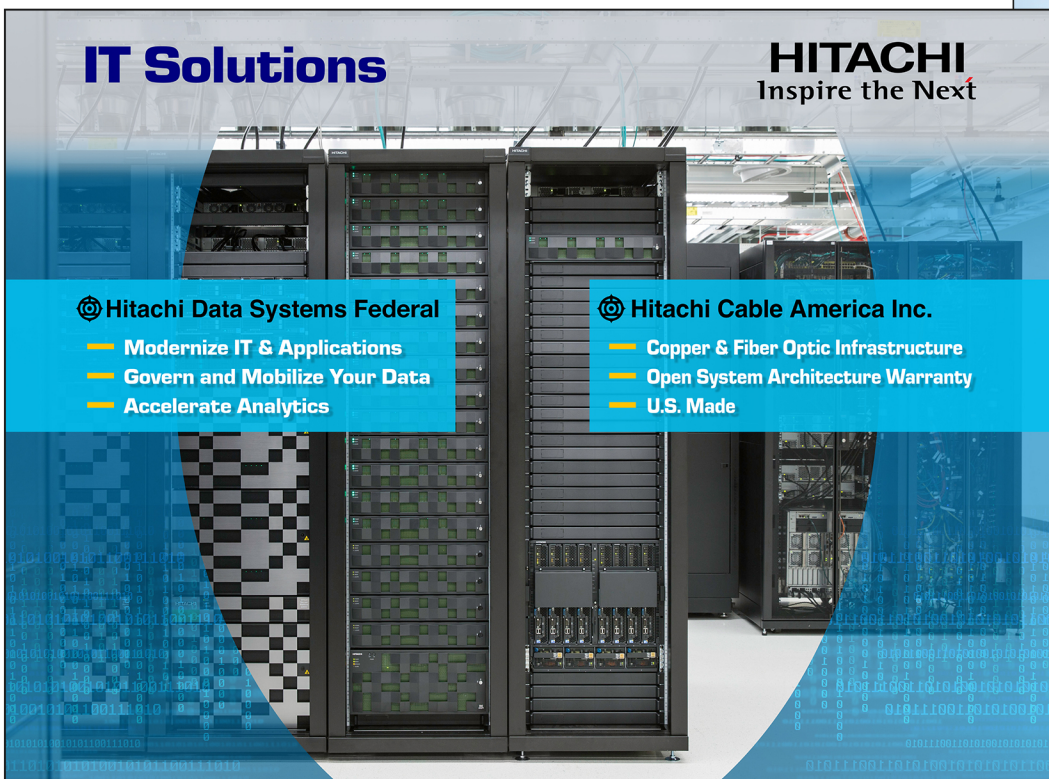
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 **Hitachi Data Systems Federal**

- Modernize IT & Applications
- Govern and Mobilize Your Data
- Accelerate Analytics

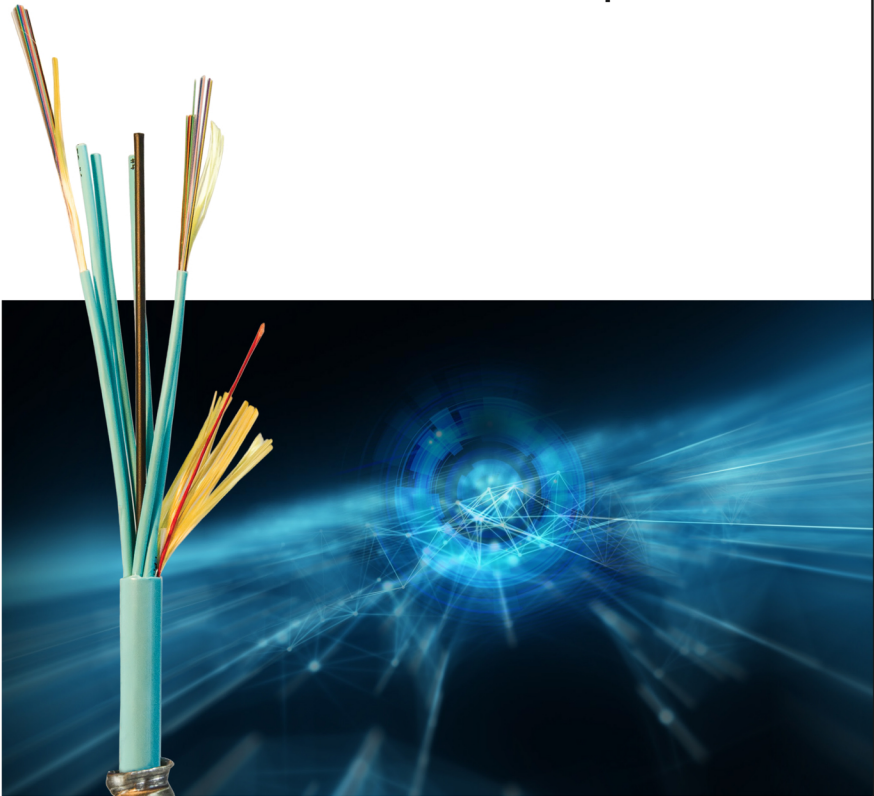
 **Hitachi Cable America Inc.**

- Copper & Fiber Optic Infrastructure
- Open System Architecture Warranty
- U.S. Made



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Tight Buffered Interconnect & NanoCore™ Micro Distribution Fiber Optic Cables



Hitachi Cable America Inc.

Located in Manchester, New Hampshire, Hitachi Cable America (HCA) 300,000 square-foot facility produces over 4,500 unique cable constructions. HCA has been manufacturing cables at this facility since 1986 and operates 24/7 to supply demand. In addition to producing network related cables, HCA builds cables for the medical industry, the cellular phone industry, industrial applications, supercomputing and more.

Products from Hitachi Cable America include:

- Category 5e, 6 & 6A Cables
- Category 7, 7A & 8 Cables
- Fiber Optic Cables (indoor, outdoor & armored)
- NanoCore™ Micro Distribution Fiber Optic Cables
- Industrial Ethernet Cables
- Coaxial & Mini-coaxial Cables
- Distributed Antenna System Cables
- Round & Ribbon Electronic Cables
- MudGuard-EX™ Drilling Mud Resistant Cables



HCA is proud to use Corning Optical Glass in all standard fiber optic cable constructions.



For more information about Open System Architecture, please contact us.

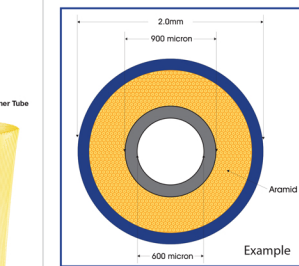
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01/2020

Reinforced Furcation



Features and Benefits

- Tight dimensional control for easy fiber insertion
- Available in Zipcord construction
- Aramid reinforced for added mechanical protection
- Variety of sizing options to meet customer requirements
- UL94 V-0 material options
- 16 color options
- Low shrinkage for improved environmental performance
- Jacket material options include Hytrel®, LSZH, PVC
- Bare fiber or tight buffered protection options
- Wide operation temperature range material options (-40 deg
- Tube can be customized to customer standards (minimum c
- Jacket color matched to all HCA fiber optic cables
- Standard inner tube color is white

Applications

- Breaking-out/Fanning-out cables to connectors
- Platching active devices
- Specialty fiber protection
- Coupler and splitter applications

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NanoCore®

Nanocore®
Fiber Optic
Solutions

From security cameras and lighting systems to SANs and WANs, the demand on the physical network infrastructure has never been greater. And, there is no end in sight. Bandwidth demands from an ever increasing list of Internet of Things (IoT) devices, as well as continued growth in online shopping, gaming, movies and television and the migration to a paperless world across all industries have created a never ending threat for bandwidth. In addition to the users, the data centers that support these systems must keep up with the bandwidth demand. To support all of these users and more, Hitachi Cable America (HCA) offers our NanoCore® family of micro distribution fiber optic cables.

Available with high bandwidth Multimode and Singlemode fiber optic glass, the NanoCore family is designed to provide the highest levels of throughput in the smallest cable possible. With an industry leading 144-fiber, 9.8mm outside diameter cable, the NanoCore line is ideal anywhere where space is limited, but network demands are high. For this reason, Hitachi now offers a 288-fiber NanoCore cable.

Whether they are installed in the top of rack in a data center or in the horizontal cable space in a call center, NanoCore cables are able to deliver the bandwidth where it is needed. They offer an extremely small outside diameter because they utilize loose tube 250 micron optical fibers. Due to advances in optical fiber manufacturing and the use of bend-insensitive optical fibers, the fibers can now be more easily integrated into a wide range of cable constructions. When NanoCore cables are mated to high-density MPO connectors, you can establish data rates of 100 gigabit per second and even higher. With a cable about as big around as a #2 pencil, that's impressive.

This catalog includes the complete range of NanoCore constructions to meet your specific needs, including tight buffered interconnect cables. All NanoCore cables are made with pride at the Hitachi Cable America facility in Manchester, NH.



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INDOOR

NanoCore®
2 Through 24 fibers

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Product
Highlights

- REACH & RoHS 2 compliant
- Made in USA
- All multimode, and singlemode cables (except OM3) utilize bend-insensitive optical fibers.
- 250 micron loose tube design allows for higher fiber strand counts in a smaller overall diameter cable.
- LSHF with (OFNR) rating enables use in riser-rated environments. See note under part number table.
- Halogen free design offers improved safety performance.
- Ideal for MPO (MTP™) style connectors.
- Each fiber is color coded for easy identification.
- Flexible and easy to handle.
- Lightweight, flexible Aramid yarns enhance strength.
- When necessary, color-coded binders separate fiber strands into bundles of 12.

Options

- Enhanced bend insensitive OS2 optical fiber is available (ITU-T G.657.B3 & G.657.A2).
- Standard jacket colors are:
 - Yellow: OS2
 - Orange: OM3 & OM4
 - Aqua: OM3 & OM4
 - Note: Color Violet for OM4 is available
- 16 Fiber colors are available.
- Colored threads are used to bundle fibers.

Applications

- Applications include 10, 40 & 100 gigabit Ethernet, Fibre Channel, Video, Security, Automation.
- OM3 supports applications utilizing Short Wave Division Multiplexing (SWDM).

Standards

- TIA/EIA-568-C.3
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE
- OS2 glass is compliant to ITU-T G.657.A1

NanoCore® Interconnect (Single Jacket)
Micro Distribution (LSHF/Riser)

Low Smoke No Halogens
(UL) OFNR c(UL) OFNR FT4

PART NUMBERS BY FIBER COUNT		62.5 UM OM3	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM4+	50 UM OM5	8.3 UM OS2
FIBERS	CABLE OD / FIBER BUNDLE	62.5 UM OM3	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM4+	50 UM OM5	8.3 UM OS2
2	2.0	62424-2	62425-2	62426-2	62427-2	62428-2	62747-2	62429-2
2	3.0	-	62338-2	61631-2	61632-2	61941-2	62438-2	61772-2
4	2.0	-	62424-4	62425-4	62426-4	62427-4	62428-4	62747-4
4	3.0	-	62338-4	61631-4	61632-4	61941-4	62438-4	61772-4
6	2.0	-	62424-6	62425-6	62426-6	62427-6	62428-6	62747-6
6	3.0	-	62338-6	61631-6	61632-6	61941-6	62438-6	61772-6
12	2.0	-	62424-12	62425-12	62426-12	62427-12	62428-12	62747-12
12	3.0	-	62338-12	61631-12	61632-12	61941-12	62438-12	61772-12
16	3.0	-	62338-16	61631-16	61632-16	61941-16	62438-16	61772-16
16	3.0	8 X 2	62701-16	62702-16	62703-16	62704-16	62705-16	62706-16
24	3.0	12 X 2	62424-24	62425-24	62426-24	62427-24	62428-24	62747-24

LSHF (Low Smoke Halogen Free) is a new flame rating developed by Underwriters Laboratories (UL). It identifies the cable as being low smoke while also containing zero halogens.

SPECIFICATIONS BY FIBER COUNT			RECOMMENDED MAXIMUM LOADS								
FIBERS	FIBERS / BUNDLE	CABLE OD	INSTALL		OPERATION		COMPRESSION		IMPACT		CABLE WEIGHT
			lbs	N	lbs	N	N/m	N-m	lbs/ft	Kg/Km	
2	-	0.078	2.0	50	222	15	67	35	0.74	2.5	3.7
2	-	0.118	3.0	100	445	30	134	100	2.94	4.8	7.2
4	-	0.078	2.0	50	222	15	67	35	0.74	2.6	3.8
4	-	0.118	3.0	100	445	30	134	100	2.94	4.9	7.4
6	-	0.078	2.0	50	222	15	67	35	0.74	2.7	4.0
6	-	0.118	3.0	100	445	30	134	100	2.94	5.0	7.5
12	-	0.078	2.0	50	222	15	67	35	0.74	3.0	4.4
12	-	0.118	3.0	100	445	30	134	100	2.94	5.3	7.9
16	-	0.118	3.0	150	668	45	200	100	2.94	5.2	7.7
16	8 X 2	0.118	3.0	150	668	45	200	100	2.94	5.2	7.7
24	12 X 2	0.118	3.0	150	668	45	200	100	0.74	5.9	8.8

Note: Part number rows in upper table directly correspond to cable characteristics rows in the same location of the lower table. These cable designs utilize color-coded binders to separate subunits.

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Open System Architecture

Open System Architecture vs Closed Solutions

In network infrastructure, the term open system architecture refers to the practice of using virtually any combination of standards-compliant cable and connective hardware in the design of the network. The standard, ANSI/TIA-568-C.1, dictates the performance requirements of the network components to ensure that they will accommodate the applications that were designed to operate over them. By employing the open system architecture philosophy, the end user has the freedom to choose the products that best meet their specific needs. They can then be confident that the solution they chose will support all applications designed to operate over that solution. Just like a standard light bulb will fit into any lamp and work when you flip the switch, so will the network perform when you use components that meet or exceed the standards.

Of course there are also different levels of quality and performance to choose from in the market place. Certainly a wise choice, especially when it comes to cable for the open system architecture infrastructure, is to select a company that offers guaranteed performance, a substantial warranty, such as a lifetime warranty, and has sufficient personnel, both internally and externally, to properly support the customer. If an issue arises, it's good to have quick and easy access to the manufacturer. Other items that can contribute to confidence in a product's selection are if it is manufactured in the U.S. and if the company makes its facility accessible to visitors. Generally, companies that build a quality product are proud to show customers how they do it. Since a network infrastructure can be a significant investment, typically in the thousands or even millions of dollars, knowing the origin of the products and being familiar with their manufacturers could very likely influence your decision when selecting components.

Closed solutions, ones in which a specific cable and connectivity manufacturer must be used in order to obtain a warranty, are typically marketed as providing better performance than standards-based solutions. This may or may not be the case. These closed solutions may involve the components from two companies or a single company. Often, a connectivity manufacturer aligns with a cable manufacturer. In some instances all materials come from one company, or at least, have one company's name printed on them. Few companies actually make both the cable and connective hardware themselves.

Closed solutions offered by a single company or from a collaborative effort between companies are not new. They have been around for a number of years. And, virtually all of them tout some advantage that its solution offers over the others. But, how can you really tell which one is the best? How much is fact and how much is hype? In fact, just recently, two solutions, each comprised of a connectivity manufacturer and a cable manufacturer, broke off their long-term relationships and switched partners. Was this done to provide a better product to the customer? Was it done because of a new corporate sales strategy? Regardless, when two companies market a closed solution jointly, it may have more to do with their sales channels than their quest for higher performance. These are just some of the items to consider when choosing materials.

At Mayer Electric, we believe the best method for selecting the appropriate products for an infrastructure is to evaluate the performance, warranty and overall value that the individual components offer. With that information, you can then build the best infrastructure for your company. An open architecture solution offers users the freedom to choose the materials that best meet their needs.



BICS (Building Industry Consultant Services International), so those who require credit to maintain a BICS certification can receive them by attending Hitachi Cable's training programs. Hitachi Cable America's facility is located in Manchester, New Hampshire. All copper premises and fiber optic cables are manufactured there and facility tours are available. If you need direct support from the manufacturer, it's available directly from Hitachi Cable America.

When it comes to a warranty, no company offers a warranty more comprehensive than Hitachi Cable America's Lifetime Warranty.

Performance

Is performance of the network infrastructure important? You bet it is. Studies have indicated that approximately 50% of network throughput problems are related to the network infrastructure. So, when trying to obtain the best value for the investment, it is very important to select high quality, high performance products. The purveyors of closed solutions contend that only their solutions can provide exceptional performance. The performance they offer may be good, but is it measurably better than that which can be obtained by combining a leading cable manufacturer and a leading connectivity brand? We obtained 3rd party test results for Hitachi Cable America and eight connectivity manufacturers. The Hitachi Cable America cable used was its Category 6 PLUS™ cable (30025-B). The data (below) indicates that when the PLUS™ cable is mated to the connectivity shown, the resulting permanent link (a circuit including cable and connectors at each end) provides performance in excess of the parameters established in the ANSI/TIA-568-C.1 standard. For example, both ACR-N and PSACR-N, identified in the yellow boxes, demonstrate that there is significant margin over the limits in the Category 6 standard. ACRN (Attenuation-to-Crosstalk Ratio Near-end) is the relationship between a signal on a conductor and associated noise emanating from an adjacent conductor. Near-end indicates it is at the main test end of the link being tested. ACRN is calculated from attenuation and NEXT (crosstalk) measurements. PSACR-N is the difference between a twisted pair's attenuation and combined crosstalk from adjacent pairs. Both ACRN & PSACR-N are key performance indicators in a permanent link.



If noise overcomes a signal on a conductor, it will corrupt it. Higher ACRN and PSACR-N values are desirable. Therefore, if you choose an open system architecture solution that includes the PLUS™ Category 6 cable from Hitachi Cable America, you will have a solution that will support all applications intended for Category 6.

If you are seeking the best value for your infrastructure investment, it is clear that an open system architecture solution featuring cable and connectivity tested and verified to the standard will perform as well as if not better than closed solutions. Open system architecture solutions can be a better value and offer equal or better electrical performance than closed solutions.

Hubbell & Hitachi PLUS™ Category 6 Cable				Hellmuth/Tyton & Hitachi PLUS™ Category 6 Cable			
ACR-N (dB)	11.2	ACR-N (dB)	8.1	ACR-N (dB)	11.2	ACR-N (dB)	8.1
Frequency (MHz)	15.0	Frequency (MHz)	15.0	Frequency (MHz)	15.0	Frequency (MHz)	15.0
Limit (dB)	28.0	Limit (dB)	15.3	Limit (dB)	28.0	Limit (dB)	15.3
PSACR-N (dB)	10.4	PSACR-N (dB)	10.4	PSACR-N (dB)	10.4	PSACR-N (dB)	10.4
Frequency (MHz)	94.3	Frequency (MHz)	94.3	Frequency (MHz)	94.3	Frequency (MHz)	94.3
Limit (dB)	23.5	Limit (dB)	23.5	Limit (dB)	23.5	Limit (dB)	23.5
CC & Hitachi PLUS™ Category 6 Cable				CC & Hitachi PLUS™ Category 6 Cable			
CR-N (dB)	7.8	CR-N (dB)	7.8	CR-N (dB)	7.8	CR-N (dB)	7.8
Frequency (MHz)	71.2	Frequency (MHz)	71.2	Frequency (MHz)	71.2	Frequency (MHz)	71.2
Limit (dB)	30.0	Limit (dB)	30.0	Limit (dB)	30.0	Limit (dB)	30.0
PSACR-N (dB)	9.8	PSACR-N (dB)	9.8	PSACR-N (dB)	9.8	PSACR-N (dB)	9.8
Frequency (MHz)	71.2	Frequency (MHz)	71.2	Frequency (MHz)	71.2	Frequency (MHz)	71.2
Limit (dB)	28.0	Limit (dB)	28.0	Limit (dB)	28.0	Limit (dB)	28.0
MB & Hitachi PLUS™ Category 6 Cable				MB & Hitachi PLUS™ Category 6 Cable			
CR-N (dB)	6.7	CR-N (dB)	6.7	CR-N (dB)	6.7	CR-N (dB)	6.7
Frequency (MHz)	14.8	Frequency (MHz)	14.8	Frequency (MHz)	14.8	Frequency (MHz)	14.8
Limit (dB)	48.4	Limit (dB)	48.4	Limit (dB)	48.4	Limit (dB)	48.4
PSACR-N (dB)	10.1	PSACR-N (dB)	10.1	PSACR-N (dB)	10.1	PSACR-N (dB)	10.1
Frequency (MHz)	14.8	Frequency (MHz)	14.8	Frequency (MHz)	14.8	Frequency (MHz)	14.8
Limit (dB)	46.0	Limit (dB)	46.0	Limit (dB)	46.0	Limit (dB)	46.0
Jatlimax & Hitachi PLUS™ Category 6 Cable				Jatlimax & Hitachi PLUS™ Category 6 Cable			
CR-N (dB)	11.6	CR-N (dB)	11.6	CR-N (dB)	11.6	CR-N (dB)	11.6
Frequency (MHz)	24.3	Frequency (MHz)	24.3	Frequency (MHz)	24.3	Frequency (MHz)	24.3
Limit (dB)	43.0	Limit (dB)	43.0	Limit (dB)	43.0	Limit (dB)	43.0
PSACR-N (dB)	13.3	PSACR-N (dB)	13.3	PSACR-N (dB)	13.3	PSACR-N (dB)	13.3
Frequency (MHz)	24.3	Frequency (MHz)	24.3	Frequency (MHz)	24.3	Frequency (MHz)	24.3
Limit (dB)	40.6	Limit (dB)	40.6	Limit (dB)	40.6	Limit (dB)	40.6

What is Open System Architecture?

If you are installing a Category 5e, 6 or 6A infrastructure, there is a sizeable selection of well known products available. What makes one product a wiser choice than another? Which one offers maximum performance, while also providing the best value? Should you buy the heavily marketed closed brand solution that touts unmatched performance or should you pick and choose the products that best meet your specific needs? If you do the latter, what kind of performance can you expect to get? The closed solutions appear to offer the best performance. But, they are also asking a premium for that performance. If you own this project, you want the best value possible. You want high performance, without the high price.

The purpose of this paper is to illustrate why open system architecture, a standards based network solution approach, is a viable alternative to those closed solutions. This paper will also provide examples of the exceptional performance delivered by an open system architecture solution that includes Category 6 cable from Hitachi Cable America and connectivity from 8 well-known connectivity manufacturers.



Ranked among the nation's largest, and most rapidly expanding distributors of electrical supplies, Mayer reaches its markets currently through locations in Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, Texas, Tennessee, and Virginia and continues to explore expansion opportunities throughout the southern U.S. Founded in 1930 and headquartered in Birmingham, Alabama, Mayer employs over 950 people and has annual sales of over \$600 million.

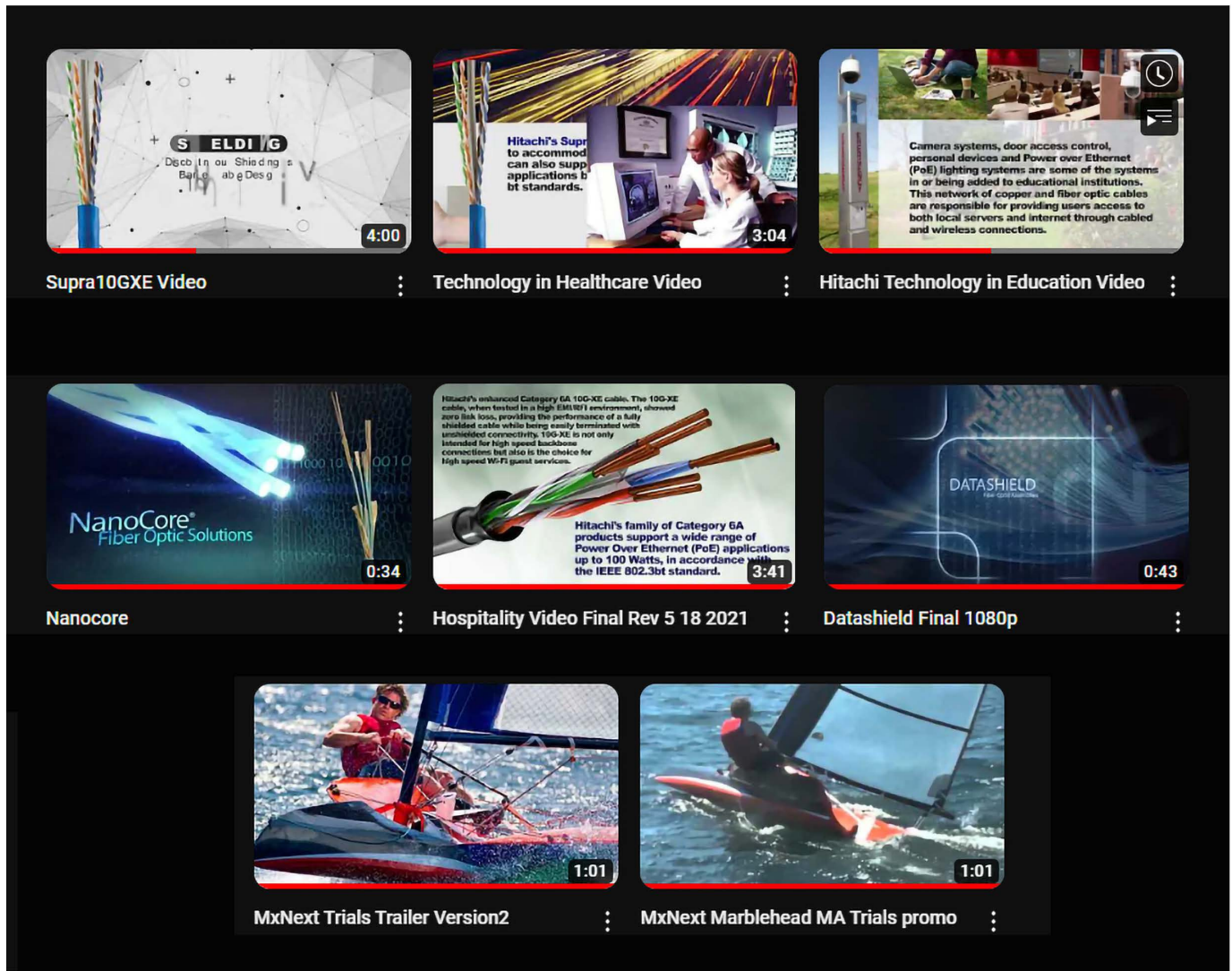
Hitachi Cable America Inc.

Located in Manchester, New Hampshire, Hitachi Cable America's (HCA) 300,000 square foot facility produces over 4,000 different cables. Products manufactured include HCA's high-performance copper and fiber optic communication cables, as well as flat and round electronic cables and custom cables. HCA products are used world-wide across a wide spectrum of industries, including medical, financial, manufacturing, educational, government and military.



1-866-637-1255

Examples of Video Shorts



Videos utilize photography and imagery that I've shot or created myself. 3D Elements such as special effects and wires were self created as well. Some elements of special effect were created using third party templates and improved or altered by myself.