Since 1986, Hitachi Cable America (HCA) has been developing and manufacturing technologically advanced cables at our Manchester, New Hampshire facility. Our Power+ composite cables, like all of our copper and fiber communication cables, are built to exceed the standards to which they are tested and will deliver maximum, consistent performance to the user. As a leader in the manufacture of high performance cables, HCA has also developed products for a wide range of industries and applications including oil & gas exploration, mining, cellular towers, robotics, endoscopy, supercomputing and more.

**Other Products from Hitachi Cable America:**
- Shielded Category 5e, 6 & 6A Cables
- Category 7, 7A & 8 Fiber Optic Cables (indoor, outdoor, Indoor/outdoor)
- NanoCore™ Fiber Optic Cables
- Industrial Ethernet Cables
- Coaxial & Mini-coaxial Cables
- ChanneFlex™ Cabling System
- Round & Ribbon Electronic Cables

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**Hitachi Cable America Inc.**

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www.hca.hitachi-cable.com

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**Hitachi Inspire the Next**
**Power+™ Composite Indoor/Outdoor Cables**

Composite Fiber Strands & Copper Conductors

- Composite Fiber Strands & Copper Conductors make them suitable for a wide variety of environments.
- Composite cables are available with a plenum rating (OFCP) which
- constructions of Power+ composite cables address the variety of
- required and distance may be a factor. Power+ composite cables
- utilize fiber optic strands to provide the link to the network and a
- applications where remote power and network connectivity are re-

**Designed for Long Distance Power over Ethernet (PoE) Applications**

- Multimode and singlemode glass available (2, 6 & 12 strand).
- Two copper conductors per cable (choose from 12, 14, 16, 18, 20 & 22 gauges).
- Stranded copper conductors (7-19 strands) offer greater cable flexibility.
- Supports 25.5 watts of power (IEEE 802.3at up to 2,700 feet).
- Supports 6.49 watts of power (IEEE 802.3af up to 10,000 feet).
- Two copper conductors per cable (choose from 12, 14, 16, 18, 20 & 22 gauges).
- Multimode and singlemode glass available (2, 6 & 12 strand).

**Cable Design allows Easy Termination and Wide Use**

- UL Listed OFCP for use in plenum spaces.
- OSP rating permits use in outdoor and wet environments.
- Small outside diameters assist in installation.
- Lightweight, flexible aramid yarns throughout the design enhance strength.
- Each 900um buffered fiber resides in a 2mm jacket for easy termination to LC, SC connectors and more.

**Options**

- Available with 2, 6 or 12 strands of fiber.
- Available with 1 pair of 12, 14, 16, 18, 20 or 22 AWG stranded conductors.

**Applications**

- High noise areas and extended distance.
- Security CCTV Cameras.
- Wireless Access Points.
- High noise areas and extended distance.
- Security CCTV Cameras.
- Wireless Access Points.

**Highlights**

- REACH & RoHS compliant
- Made in USA.
- Extending PoE and Limited Power SELV data transmission beyond 100 meters.
- Provides immunity from electromagnetic and radio frequency interference.
- Choice of separate power conductors eliminates concerns associated with heat generation and length derating calculations as required by TIA 568 and NEC.
- Plenum and outdoor rating permits use in a wide range of environments.
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices.
- Suitable for lashed aerial, duct applications.
- SAPs (super absorbent polymers) are suitable for use in outdoor and wet environments.
- 25,000 - 40,000 meters.
- Ideal for all remote powered applications.

**Features**

- Designed for Long Distance Power over Ethernet (PoE) Applications
- Multimode and singlemode glass available (2, 6 & 12 strand).
- Suitable for use in a wide range of environments.
- Made in U.S.A. at Manchester, NH facility.

**Made in U.S.A. at Manchester, NH facility.**

**Optical Specifications**

- ISO/IEC 11801, 2nd edition
- TIA/EIA-568-C.3
- Telcordia GR-409-CORE
- ANSI/TIA 568-C.2
- NEC CL2R-OF rating, compliant with Class 2 SELV (Safety Extra Low Voltage)
- NFPA 262
- UL 2000-70

**Standards**

- UL 2000-70
- NFPA 262
- ANSI/TIA 568-C.2

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**Hitachi Cable America reserves the right to revise any specifications.**

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Composite Indoor/Outdoor Cables

Power+™ Composite Indoor/Outdoor Cables

Composite Fiber Strands & Copper Conductors

Power+™ composite indoor/outdoor cables are the solution for applications where remote power and network connectivity are required and distance may be a factor. Power+ composite cables utilize fiber optic strands to provide the link to the network and a pair of stranded copper conductors to deliver power. The different constructions of Power+ composite cables address the variety of applications on the market. Power+ composite cables are ideal for long distance PTZ camera installations, Distributed Antenna Systems (DAS), and Passive Optical Networks (PON). Power+ composite cables are available with a plenum rating (OFCP) which makes them suitable for a wide variety of environments.

Designed for Long Distance Power over Ethernet (PoE) Applications

- Multimode and singlenode glass available (2, 6 & 12 strand).
- Two copper conductors per cable (choose from 12, 14, 16, 18, 20 & 22 gauges).
- Stranded copper conductors (7-19 strands) offer greater cable flexibility.
- Supports 6.49 watts of power (IEEE 802.3af up to 10,000 feet).
- Supports 12.95 watts of power (IEEE 802.3af up to 5,100 feet).
- Supports 25.5 watts of power (IEEE 802.3at up to 2,700 feet).

Cable Design allows Easy Termination and Wide Use

- UL Listed OFCP for use in plenum spaces.
- OSP rating permits use in outdoor and wet environments.
- Small outside diameters assist in installation.
- Tight buffered (900 micron) optical fibers reside inside individual aramid yarn filled subunits.
- Compatible with all LC and SC fiber optic connectors.
- Fiber optic glass options include OM1, OM2, OM3, OM4, OM5 & OS2.
- Mitigates temperature rise associated with cable bundles.

Made in U.S.A. at Manchester, NH facility

Product Highlights

- REACH & NHEX 2 compliant
- Made in USA
- Extending PoE and Limited Power SELV data transmission beyond 100 meters.
- Provides immunity from electromagnetic and radio frequency interference.
- Choice of separate power conductors eliminates concerns associated with heat generation and length derating calculations as required by TIA 568-B and IEC.
- Plenum and outdoor rating permits use in a wide range of environments.
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices.
- Tight buffered (900 micron) optical fibers reside inside individual aramid yarn filled subunits.
- OSP rating permits use in outdoor and wet environments.
- UL Listed OFCP for use in plenum spaces.
- Made in U.S.A. at Manchester, NH facility

Options

Available with 2, 6 or 12 strands of fiber.
Available with 1 pair of 12, 14, 16, 18, 20 or 22 AWG stranded conductors.

Applications

- High rise area and extended distance
- Security CCTV Cameras
- Wireless Access Points
- Distributed Antenna Systems (DAS)
- Passive Optical Networks (PON)
- Ideal for all remote powered applications.

Standards

- NEC CL2P-OF rating, compliant with Class 2 SELV (Safety Extra Low Voltage)
- NFPA 262
- ANSI/TIA 568-C.2

Features

- Easy to strip and terminate.
- Lightweight, flexible aramid yarn throughout the design enhance strength.
- Each 900um buffered fiber resides in a 2mm subunit for easy termination to LC, SC connectors and more.

Optical Specifications

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<th>Fiber</th>
<th>OD(mm)</th>
<th>Core Type</th>
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<th>CL2P-OF</th>
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Power+ Composite
2, 6, 12-fiber 
Multimode and Singlemode

25,000 40,000
Since 1986, Hitachi Cable America (HCA) has been developing and manufacturing technologically advanced cables at our Manchester, New Hampshire facility. Our Power+ composite cables, like all of our copper and fiber communication cables, are built to exceed the standards to which they are tested and will deliver maximum, consistent performance to the user. As a leader in the manufacture of high performance cables, HCA has also developed products for a wide range of industries and applications including oil & gas exploration, mining, cellular towers, robotics, endoscopy, supercomputing and more.

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