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:

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
ChannelFlex™ Cabling System
Round & Ribbon Electronic Cables

Optical Fibers & Copper Conductors
Power+ Indoor/Outdoor Composite 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 applications where remote power and network connectivity are required.

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 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 6.49 watts of power (IEEE 802.3af) up to 10,000 feet.
- Supports 12.95 watts of power (IEEE 802.3at) up to 5,100 feet.
- Supports 26.5 watts of power (IEEE 802.3bt) 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 diameter assists in installation.
- Lightweight, flexible aramid yarns throughout the design enhance strength.
- Each 900um buffered fiber resides in a 3mm subunit 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.
- 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.

Highlights

- REACH & RoHS 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 and NEC.
- Power and outdoor rating permits use in a wide range of environments.
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices.
- Suitable for twisted pair, axial underground conduit and indoor plenum applications.
- All multimode and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- Easy to strip and terminate.
- Lightweight, flexible aramid yarns throughout the design enhance strength.
- Each 900um buffered fiber resides in a 3mm subunit for easy termination to LC/SC connectors and more.

Features

- Made in U.S.A. at Manchester, NH facility
- RePEACH & RoHS 2 compliant
- UL Listed OFCP for use in plenum spaces
- OSP rating permits use in outdoor and wet environments
- Small outside diameter assists in installation
- Lightweight, flexible aramid yarns throughout the design enhance strength
- Each 900um buffered fiber resides in a 3mm subunit for easy termination to LC/SC connectors and more.
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 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 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.
- Lightweight, flexible aramid yarns throughout the design enhance strength.
- Each 900um buffered fiber resides in a 3mm buffer of CL, SC connectors and more.

**Highlights**
- REACH & RoHS 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 and NEC.
- UL Listed OFCP for use in plenum spaces.
- Supports 6.49 watts of power (IEEE 802.3af up to 10,000 feet).
- Multimode and singlemode glass available (2, 6, 12-fiber).

**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.
- Distributed Antenna Systems (DAS).
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- Ideal for all remote powered applications.

**Standards**
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- NFPA 262.
- ANSI/TIA 568-C.2.

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

**Optical Specifications**
- TIA/EIA-568-C.3
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE

**Power+™ FO Cable Part Numbers**

**Cable**
- Indoor/Outdoor
- Power+™ FO Cable Part Numbers 12 AWG
- Power+™ FO Cable Part Numbers 16 AWG
- Power+™ FO Cable Part Numbers 18 AWG
- Power+™ FO Cable Part Numbers 20 AWG
- Power+™ FO Cable Part Numbers 22 AWG

**Features**
- Jacket Sub Unit Jacket
- 900 um Fiber Copper Conductor
- SAP Impregnated Yarn
- 12 Fiber
- (Non-Bonded to draw strands)

**Images**
- Cable design
- Product highlights
- Optical specifications

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