

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

HITACHI Inspire the Next

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HITECHI

Power+™ Composite Cables

Optical Fibers & Copper Conductors

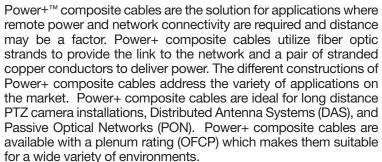






Power+ Composite Cables

Composite Fiber Strands & Copper Conductors







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).

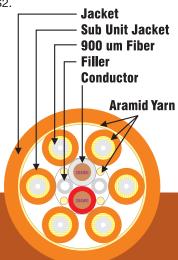
Cable Design allows Easy Termination and Wide Use

- UL Listed OFCP for use in plenum spaces.
- 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



RITECHI



Power Composite Multimode and Singlemode

Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- Extending PoE and Limited Power SELV data transmission beyond 100
- Provides immunity from electro magnetic and radio frequency interference.
- Choice of separate power conductors eliminates concerns associated with heat generation and length derating calculations as required by TIA 568
- Plenum rating permits use in a wide range of environments.
- 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
- Each 900um buffered fiber resides in a 2mm 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
- NFPA 262.
- ANSI/TIA 568-C.2.

Power+TM Composite (Plenum) (UL) OFCP C(UL) OFCP FT6

Power^{+™} FO Cable Part Numbers 22 AWG 2 5.8 8.0

Power+™ FO Cable Part Numbers 20 AWG

FIBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	6.2	62866-4	62867-4	62868-4	62869-4	62870-4	62865-4
6	8.4	62866-8	62867-8	62868-8	62869-8	62870-8	62865-8
12	10.5	62866-14	62867-14	62868-14	62869-14	62870-14	62865-14

Power+™ FO Cable Part Numbers 18 AWG

FIBERS	CABLE OD _(mm)	62.5 UM 0M1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	6.8	62872-4	62873-4	62874-4	62875-4	62876-4	62871-4
6	8.4	62872-8	62873-8	62874-8	62875-8	62876-8	62871-8
12	10.2	62872-14	62873-14	62874-14	62875-14	62876-14	62871-14

FIBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	7.1	62878-4	62879-4	62880-4	62881-4	62882-4	62877-4
6	8.4	62878-8	62879-8	62880-8	62881-8	62882-8	62877-8
12	10.5	62878-14	62879-14	62880-14	62881-14	62882-14	62877-14

Power^{+™} FO Cable Part Numbers 14 AWG

FIBERS	CABLE OD _(mm)	62.5 UM 0M1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	7.4	62884-4	62885-4	62886-4	62887-4	62888-4	62883-4
6	9.2	62884-8	62885-8	62886-8	62887-8	62888-8	62883-8
12	10.8	62884-14	62885-14	62886-14	62887-14	62888-14	62883-14

FIBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	7.7	62890-4	62891-4	62892-4	62893-4	62894-4	62889-4
6	10.1	62890-8	62891-8	62892-8	62893-8	62894-8	62889-8
12	11.3	62890-14	62891-14	62892-14	62893-14	62894-14	62889-14





IBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	6.2	62866-4	62867-4	62868-4	62869-4	62870-4	62865-4
6	8.4	62866-8	62867-8	62868-8	62869-8	62870-8	62865-8
12	10.5	62866-14	62867-14	62868-14	62869-14	62870-14	62865-14

FIBERS	CABLE OD _(mm)	62.5 UM 0M1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	6.8	62872-4	62873-4	62874-4	62875-4	62876-4	62871-4
6	8.4	62872-8	62873-8	62874-8	62875-8	62876-8	62871-8
12	10.2	62872-14	62873-14	62874-14	62875-14	62876-14	62871-14

Power^{+™} FO Cable Part Numbers 16 AWG

FIBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	7.1	62878-4	62879-4	62880-4	62881-4	62882-4	62877-4
6	8.4	62878-8	62879-8	62880-8	62881-8	62882-8	62877-8
12	10.5	62878-14	62879-14	62880-14	62881-14	62882-14	62877-14

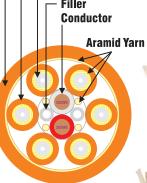
FIBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
2	7.4	62884-4	62885-4	62886-4	62887-4	62888-4	62883-4
6	9.2	62884-8	62885-8	62886-8	62887-8	62888-8	62883-8
12	10.8	62884-14	62885-14	62886-14	62887-14	62888-14	62883-14

Power^{+™} FO Cable Part Numbers 12 AWG

	FIBERS	CABLE OD _(mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM 0S2
	2	7.7	62890-4	62891-4	62892-4	62893-4	62894-4	62889-4
	6	10.1	62890-8	62891-8	62892-8	62893-8	62894-8	62889-8
	12	11.3	62890-14	62891-14	62892-14	62893-14	62894-14	62889-14
ľ								

Sub Unit Jacket 900 um Fiber Filler Conductor **Aramid Yarn**

Jacket









Optical Specifications

TIA/EIA	N-568-C.	3 ISO	/ IEC 118	01, 2nd e	dition	Telcordia	a GR-409-0	CORE		
Fiber type	Max. Attenuation (dB/km)					Min EMBc Bandwidth (MHz-km)		et distance 1)	10 Gb Ethernet distance (m)	
	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.0	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3.0	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OM5*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)
082	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards.

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