

InfiniGreen®

Powerful InfiniBand® Optical Active Cables

Products that keep your environment cool for a Truly Green Data Center

When

EXPERIENCE Matters:

Hitachi Cable brings over 50 years of cabling experience and a wealth of optical fiber and module technology together to produce reliable cables you can trust for your mission critical applications.

When Being

GREEN Matters:

InfiniGreen® Cables employ state-of-the-art ASIC's that consume the lowest power of any cables available today! They are the best choice for reducing operational costs in your datacenter.

When

CAPACITY Matters:

InfiniGreen® Cables offer industry leading aggregate bandwidth, over the longest distance, to enable massive scaling for your most challenging HPC and data center applications.

When

COMPLIANCE Matters:

InfiniGreen® Cables offer InfiniBand® and 10G standards-based connectivity, delivering low-latency and easy integration. RoHS Compliant. Eliminates the guesswork of integrating proprietary cabling solutions.

- Next Generation High Bandwidth Connectivity
 - 120 Gbit/s Duplex; 150 Gbit/s available
- Ultra-Low Power Consumption - 0.9 Watts per End
- Standards-Based InfiniBand® and
 - 10G Compatible Cables
- Trusted Hitachi Cabling Technology
 - eases handling and installation



- Embedded Optical Cable
 - No Exposed Optics
- Hot pluggable
- Dual-rate capable
 - InfiniBand® DDR, QDR

- Up to 100 m Links
- Low Weight
- Small Bend Radius
- Low Friction Jacket
 - for easy installation

- Small Cross Section
 - lowers airflow resistance
 - higher density cabling
- High Tensile Strength
 - reduces pulling issues
- Standard cable length:
 - 3, 5, 8, 10, 20, 30, 40, 50m
- Other cable lengths are available up to 100m upon request.

**For more
information contact:**

Hitachi Cable America

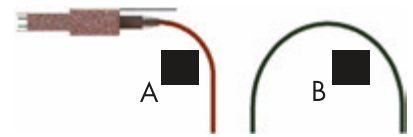
603-669-4347

www.hca.hitachi-cable.com

* InfiniBand® is a registered trademark of the InfiniBand® Trade Association
InfiniGreen® is a registered trademark of Hitachi Cable, Ltd.
HAC is an abbreviation of Hitachi Active Cable
Ethernet® is a registered trademark of Fuji Xerox Co., Ltd

InfiniGreen[™] 12 x 10 Gbit/s Optical Active Cable

Parameter	Target Specification / Product Information
Power Consumption Per End	0.9 Watts, typical
Connector	CXP with power, 84 Pin double card edges
Channels	12 Channel, Duplex
Data Rate	Up to 120 Gbit/s (10 Gbit/s/ch) Dual-rate capable: InfiniBand® DDR, QDR
Latency (e-o-e conversions only)	600 ps (typical)
Skew (max between 12 channels)	<40 ps (without fiber), <1 ns (with 100 m cable)
Operating Temperature	0-70 degC
Storage Temperature	-40 to 80 degC
Storage Humidity	5-85% RH, non-condensing
Supply Voltages	+3.3 V
Link Bit Error Rate	<10 ⁻¹⁵
Data I/O	Differential AC-Coupled CML
Hot Pluggable	Yes
Cable Types Available	1. LSZH UL Listed OFNR (Riser) 2. UL Listed OFNP (Plenum)
Compliance	<ul style="list-style-type: none"> • NFPA 262 • RoHS • UL 1666 • UL 60950-1 • Class 1M laser product; Even if cable is cut • FCC/EN55022(2006) Class B • ESD: Jedec HBM/MM, IEC 61000-4-2
Weight For 10-Meter Cable Assembly	<300 grams typical
Cable Diameter (without connector)	4.5 mm
Tensile Strength	420 N (during installation), 210 N (in operation)
Cable Length	Up to 100 m
Minimum Cable Bend Radius	
A) Cable Near Connectors	45 mm
B) Central Section of Cable	80 mm



Ordering Information & Part Numbers

Infiniband® Quad Data Rate (QDR) Assemblies
Pt. No. HAC24CA1-xxxx

Ethernet® 10.3 Gbit/s Data Rate Assemblies
Pt. No. HAC24CE1-xxxx

Example Part Number: HAC24CA1- xxxx

Cable Length (xxx):

Example: 020 means 20 m length.
Standard lengths (m): 3, 5, 8, 10, 20, 30, 40, 50m
Customized lengths are available upon request.

Cable Approval / Jacket Type (x):

Example: HAC24CA1- 010A is a 10m assembly with UL OFNP Plenum rating.
Cable Jacket Options:
Code: A - OFNP (Optical Fiber, Nonconductive, Plenum) and LS (Low Smoke)
Code: B - OFNR (Optical Fiber, Nonconductive, Riser) and LSZH (Low Smoke Zero Halogen)

