

Why should I choose cable products from
Hitachi Cable Manchester?

Ultimate Flexibility

In compliance with TIA and ISO standards requirements, Hitachi Cable Manchester, Inc.'s category 5e, 6 and fiber optic cables are engineered to perform flawlessly when mated to component compliant connecting hardware and patch cords. To support the ultimate flexibility in infrastructure design, certified and warranted cabling systems from Hitachi feature an open architecture approach to the connecting hardware selection process. This approach allows the end user to have greater connectivity options in a warranted solution. Unlike many other cable/connectivity arrangements that require the owner to use a specific cable and jack to receive a warranty, we allow them the freedom to choose the connectivity solution that best meets their needs. This freedom of choice also ensures that the owner gets the best value for their investment. They are not required to use a specific connectivity manufacturer; therefore, the opportunities for savings increase.

The Hitachi R&D Laboratory continuously evaluates and monitors connecting hardware quality and performance. Examples of manufacturers of copper and fiber optic connecting hardware recognized and approved for use in a warranted Hitachi system currently include:

3M	ADC/Krone
Corning	Hellermann Tyton
Homaco	Hubbell Premise Wiring
ICC	Leviton
Molex	NORDX/CDT
Ortronics	Panduit
Pass & Seymour/Legrand	Siemon
Superior Modular Products*	
Suttle	Systemax
Tyco/AMP	

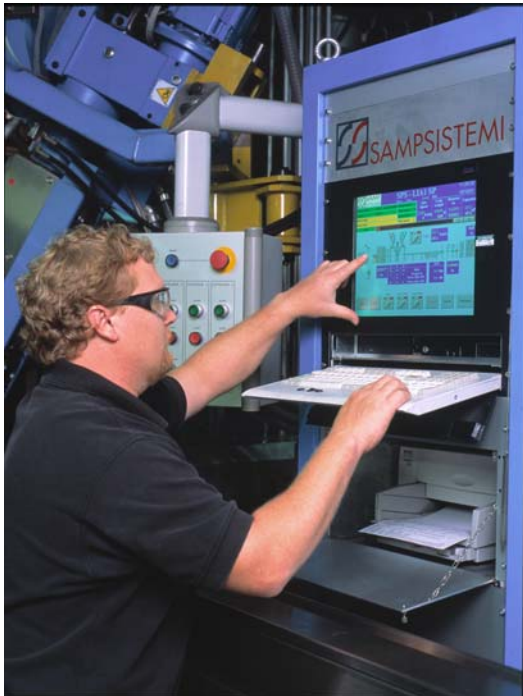
*Hitachi Cable Manchester and Superior Modular Products have joined forces to produce *Lantegra*TM solutions. There are two Category 5e and two Category 6 *Lantegra*TM solutions available. Both Hitachi and SMP are engineering driven manufacturers, and together they offer one of the best performing families of cabling solutions on the market. Visit www.lantegra.com for more information.

Ultimate Performance

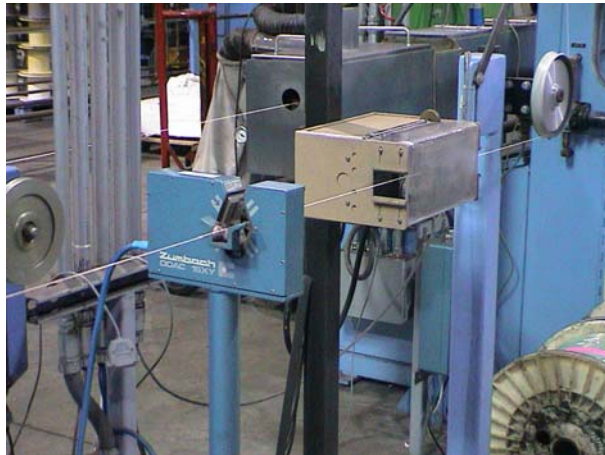
Since 1986, Hitachi Cable Manchester has strived to provide the best performing products on the market. Our engineers design our products to exceed all of the requirements for that product and to provide a level of performance that is above what is expected. Our Category 6 Plus cable, for example, our most cost effective Category 6 cable, provides guaranteed headroom to the standards. Most manufacturers provide only “typical” test results while referencing the standards as the base level of performance for their cables.

Our testing is thorough and continuous. Products are evaluated for their physical and electrical characteristics multiple times during the manufacturing process to ensure the highest quality possible. Our state-of-the-art testing facility allows us to thoroughly evaluate the electrical performance of our products before they leave the facility.

We are confident in the performance of our cables and will stand behind them, 100%. See our catalog or website, www.hcm.hitachi.com for performance data on all our products.



Left: The latest manufacturing technology ensures a consistent, high quality product.
Below: In-line fault detection devices that measure insulation diameters and detect voids in the insulation are just two components of Hitachi's endeavor for superior quality.



Ultimate Selection

In regards to copper cable selection, we have two performance levels of Category 5e and three performance levels of Category 6 four-pair UTP cables available. Each of these is available in a wide variety of configurations including two to six-cable bundles, and in a vast color selection that includes neon green and pink. Yes, Pink. We are also the leader in 25-pair Category 5e cable manufacturing and we are currently developing a high-pair Category 6 cable.

For fiber optic cables, there are hundreds of combinations available. Options such as indoor, indoor/outdoor, direct burial, singlemode or multimode, 62.5 or 50 micron (standard and 10 gigabit versions), armored or outside plant are all available. When it comes to fiber, we're certain to have exactly what you are looking for. In fact, the Manchester, New Hampshire facility manufactures over 3,200 different cable products. Although our catalog contains a large number of products in it, a complete up-to-date product listing can also be found on our website.



Ultimate Support

Everyone at Hitachi Cable Manchester is accessible to our customers. From sales and marketing, to engineering and shipping, we are available to answer your questions, provide samples, or assist you in any way we can. If an unusual installation situation arises, or you have a question on a product's performance, feel free to contact Hitachi directly at 800-772-0116. Technical support is available Monday through Friday from 7am to 6pm and plant support is available 24/7.

Why should I use a Hitachi certified installer?

Ultimate Warranty

Only cable systems installed by Hitachi certified installers are eligible for Hitachi's Lifetime Performance and Application Warranty.

Projects installed by Hitachi certified installers and registered with Hitachi are backed by a lifetime product performance and applications assurance warranty for channels, permanent links and basic links. A copy of our warranty is attached. All warranty elements are coordinated through Hitachi Cable Manchester headquarters to ensure one point of contact for all aspects of warranty execution and disposition.

Hitachi certified cable systems feature:

- Compliance to TIA and ISO Cabling Standards
- Lifetime Performance Warranty
- Lifetime Applications Support Warranty

Hitachi defines "lifetime" as the useable life of the building being occupied by the warranty holder.

A Proper Installation

If you want your infrastructure installed properly, obtain the services of a Hitachi certified installer. Only a select few installers in a region are chosen to be Hitachi certified. These installers have received the appropriate training from either Hitachi Cable Manchester or from training facilities and manufacturers recognized by Hitachi. Their training and certifications are kept current to ensure they are installing your cable infrastructure with the latest tools and materials and adhering to any and all applicable electrical or fire codes. A proper installation results in a cable system that has all ports clearly labeled, RFI and EMI obstacles avoided and cable managed in a way that facilitates future growth such as additional space in conduits, on tray and in J-hooks, as well as cable pathways that are identified to and accessible by the owner.

A proper installation:

- Ensures compliance to TIA and ISO Cabling Standards
- Ensures optimum performance, which is critical for the operation of current applications such as 100Base-T, 1000Base-T and future applications, such as 10G-Base-T (soon to be ratified).
- Allows for easier, less costly moves, adds and changes.

Remember, utilizing a Hitachi certified installer will give you peace of mind when it comes to your cable infrastructure.



Hitachi Cable Manchester



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HITACHI CABLE MANCHESTER, INC.

NETWORK CABLE SYSTEM WARRANTY

CABLE & CONNECTIVITY LIFETIME WARRANTY AND APPLICATION ASSURANCE

SUBJECT TO THE TERMS AND CONDITIONS HEREIN, HITACHI CABLE MANCHESTER, INC. (HCM) PROVIDES THE FOLLOWING WARRANTIES TO THE END-USER RELATIVE TO THE NETWORK CABLING SYSTEM, CONSISTING OF HCM CABLING PRODUCTS AND APPROVED CONNECTIVE HARDWARE, PROVIDED THAT SUCH PRODUCTS ARE INSTALLED BY A HITACHI CERTIFIED INSTALLER (HIT) AND REGISTERED WITH HCM:

1. THE PASSIVE PRODUCTS THAT COMPRISE THE REGISTERED CABLING SYSTEMS WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE.
2. THE PASSIVE CABLING PRODUCTS WILL EXCEED TIA/EIA 568B, TSB 67, AND ISO/IEC 11801 AS IN EFFECT PRESENT AT THE TIME OF THE REGISTRATION OF THE CABLING PROJECT
3. WHEN INSTALLED AND TESTED ACCORDING TIA/EIA 568B, TIA/EIA TSB 72, AND BICSI SPECIFICATIONS WITH ACCEPTABLE COMPONENTS FROM A HITACHI APPROVED HARDWARE MANUFACTURER WILL:

SUPPORT AND CONFORM TO EXISTING TIA/EIA 568a, ISO/IEC 11801 AND BICSI SPECIFICATIONS. SUPPORT ANY CURRENT OR FUTURE APPLICATIONS FOR RECOGNIZED STANDARDS: 100 MBPS TP-PMD, 100 BASE-T ETHERNET, 155 MBPS ATM, AES/EBU DIGITAL VIDEO, 270 MBPS DIGITAL VIDEO, 622 MBPS ATM, 1000BASE-T GIGABIT ETHERNET, 1.2 GIGABIT ATM, 2.4 GIGABIT ATM, ANALOG BROADBENT VIDEO TO 550 MHZ (77 CHANNELS)

APPLICATION ASSURANCE

- HCM WARRANTS THAT THE CABLE AND CONNECTING HARDWARD WILL BE FREE FROM FAILURES, WHICH PREVENT OPERATION OF THE SPECIFIC APPLICATION(S) FOR WHICH THE CABLE SYSTEM WAS DESIGNED TO SUPPORT.

WARRANT DURATION

- THE CABLE WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE USABLE LIFETIME OF THE BUILDING.

WARRANTY CONDITIONS

- THIS WARRANTY SHALL NOT APPLY TO DEFECTS ARISING OR RESULTING FROM OR CAUSED BY: (A) IMPROPER INSTALLATION WHICH RESULT FROM FAILURE TO FOLLOW HIT DESIGN OR INSTALLATION PRACTICES, (B) ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, VANDALISM, OR ACT(S) OF GOD, OR (C) ANY REPAIR, ALTERATION OR MODIFICATION NOT AUTHORIZED IN WRITING BY HCM.
- AS A CONDITION OF ITS RIGHTS HEREUNDER, PURCHASER SHALL USE ONLY CERTIFIED CABLE INSTALLERS APPROVED, IN ADVANCE AND IN WRITING, BY HCM FOR THE ORIGINAL INSTALLATION AND ANY SUBSEQUENT RE-TERMINATION AND/OR RELOCATION OF THE CABLE. ONCE INSTALLED, PURCHASER SHALL PROVIDE TO HITACHI ADVANCED WRITTEN NOTICE OF ITS INTENTION TO RE-TERMINATE OR RELOCATE THE CABLE.
- ALL CLAIMS MUST BE MADE WITHIN 10 DAYS OF IDENTIFICATION OF ALLEGED DEFECT.
- MAINTENANCE OF PROPER DOCUMENTATION OF THE CABLE SYSTEM SHALL BE THE RESPONSIBILITY OF THE END-USER. THAT RECORD SHALL BE AVAILABLE TO THE HIT INSTALLER AND HCM.
- FREE ACCESS TO THE CABLE SYSTEM SHALL BE ALLOWED BY THE END-USER.

WARRANTY REMEDY

- HCM WILL AT ITS OPTION CHOOSE A CERTIFIED HIT CONTRACTOR TO REPLACE OR REPAIR A QUALIFIED PRODUCT FOUND TO BE DEFECTIVE. HCM WILL AT ITS OPTION PROVIDE CREDIT IN LIEU OF REPLACING ANY DEFECTIVE PRODUCT. THE WARRANTY REMEDY AND CLAIM PROCEDURE PROVIDED FOR HEREIN SHALL CONSTITUTE HCM'S SOLE OBLIGATION AND PURCHASER'S SOLE RECOURSE AGAINST HCM AND HIT INSTALLER

WARRANTY EXCLUSIONS

- ALL PRODUCTS NOT INCLUDED IN THE HIT CABLE SYSTEM (CABLE TRAYS, PATHWAYS, TIES, VELCRO STRAPS, HANGERS, ETC.)
- ALL ACTIVE DEVICES INCLUDED IN THE CABLING SYSTEM.
- PRODUCTS NOT TESTED AND APPROVED BY HCM ENGINEERING LAB.
- DEFECTS FROM NON-COMPLIANT DESIGN, IMPROPER INSTALLATION, MISUSE, NEGLIGENCE, ACCIDENT OR ABUSE.

WARRANTY LIMITATIONS

- THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, OR STATUTORY, INCLUDING, BUT NOT BY WAY OF LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, NON-INFRINGEMENT OR ANY OTHER MATTER.

- THE REMEDIES PROVIDED FOR IN THE PRECEDING PARAGRAPHS SHALL CONSITUTE THE SOLE RECOURSE OF END-USER AGAINST HCM AND HIT INSTALLER FOR BREACH OF ANY OBLIGATIONS TO END-USER, WHETHER THE CLAIM IS MADE IN TORT OR IN CONTRACT, INCLUDING CLAIMS BASED ON WARRANTY, NEGLIGENCE, STRICT LIABILITY, FRAUD, MISREPRESENTATION, OR OTHERWISE.

- IN NO EVENT SHALL HCM OR ITS PARTNER BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT OR IN TORT, INCLUDING NEGLIGENCE), INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR ECONOMIC DAMAGE ARISING OUT OF THE FAILURE OF A SYSTEM. NOR SHALL THE LIABILITY OF HCM AND PARTNER FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THIS WARRANTY OR THE MANUFACTURE, SALE, DELIVERY, INSTALLATION OR USE OF THE PRODUCTS EXCEED THE PURCHASE PRICE OF THE PRODUCTS AND THE INSTALLATION.

CLAIM PROCEDURE

- AS A FURTHER CONDITION OF ITS RIGHTS HEREUNDER, PURCHASER SHALL INSPECT THE CABLE AND CONNECTING HARDWARE UPON RECEIPT. UPON DISCOVERY AT ANY TIME WITHIN THE WARRANTY PERIOD OF AN ALLEGED DEFECT COVERED BY THIS WARRANTY, PURCHASER SHALL PROVIDE HCM WITH PROMPT AND WRITTEN NOTICE OF SAME. SUCH NOTICE MUST BE RECEIVED BEFORE THE EXPIRATION OF THE WARRANTY PERIOD. PURCHASER SHALL ALSO ALLOW HCM TO OBTIAN AND ARCHIVE WIRE MAPS, INVESTIGATE ALL INSTALLATIONS AND SUBSEQUENT USES OF THE CABLE SYSTEM, AND INVESTIGATE ALL CLAIMS OF DEFECTIVE PRODUCT TO DETERMINE THE EXTENT, CAUSE AND/OR ORIGIN OF ALLEGED DEFECTS.
- ALL WARRANTY CLAIMS SHALL BE MADE TO THE HIT CERTIFIED INSTALLER PRIOR TO NOTIFYING HCM
- ANY DISPUTES UNDER THIS WARRANTY SHALL BE SUBJECT TO AND SHALL BE GOVERNED BY THE LAWS OF THE STATE OF NEW HAMPSHIRE, REGARDLESS OF THE LOCATION OF ANY INSTALLATION.

HITACHI
HITACHI CABLE MANCHESTER, INC.

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