L-com

an **INFINITE** brand

Reliable Connectivity For:

INDUSTRIAL NETWORKING

INDUSTRIAL AUTOMATION

INDUSTRIAL LOGISTICS

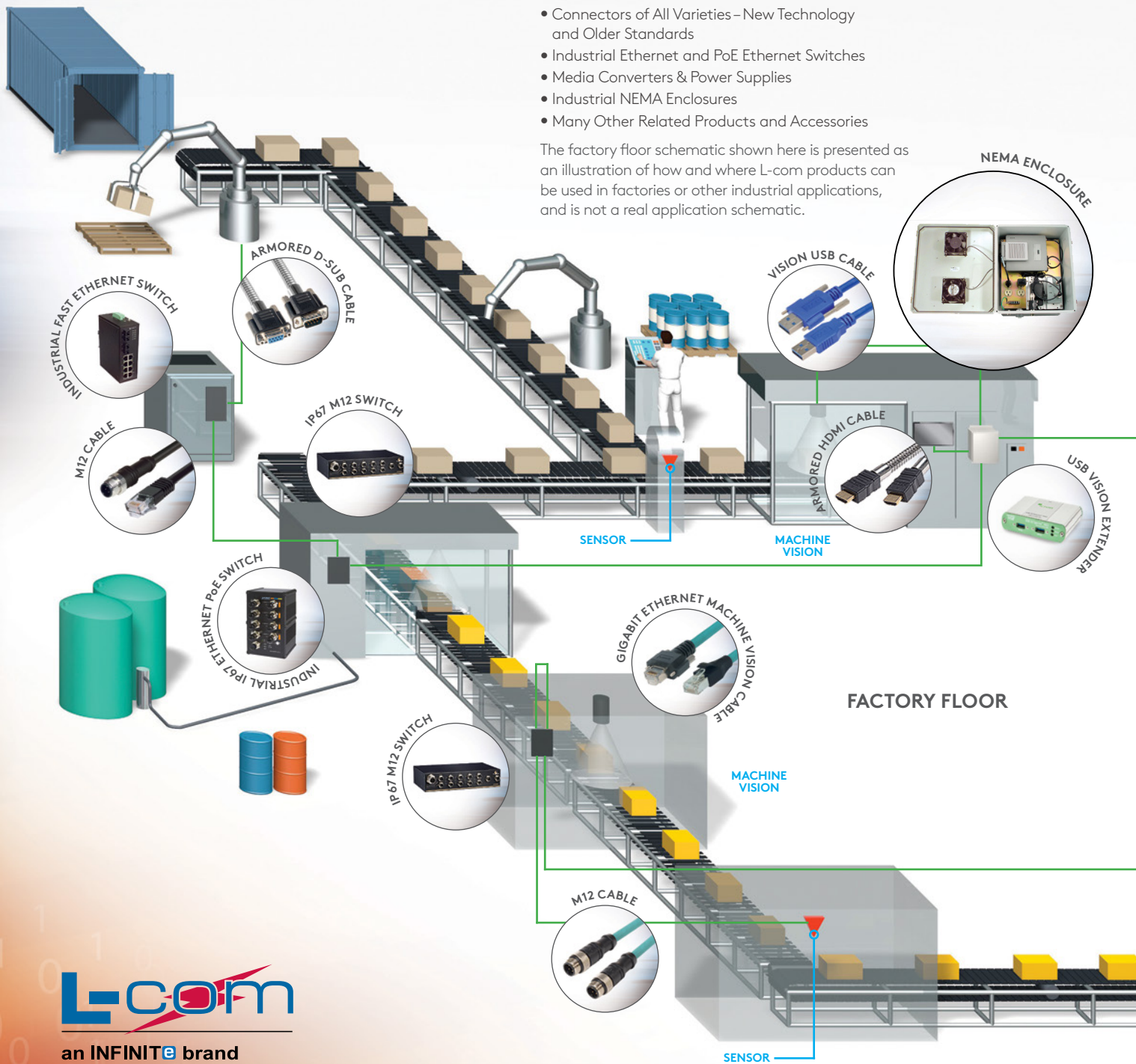# INDUSTRIAL CONNECTIVITY SOLUTIONS
From the Connection Experts

Factory Floor Solutions with L-com Connectivity

L-com offers one of the industry's largest selections of connectivity products for industrial environments, including:

- Cable Assemblies and Bulk Cable
- Connectors of All Varieties – New Technology and Older Standards
- Industrial Ethernet and PoE Ethernet Switches
- Media Converters & Power Supplies
- Industrial NEMA Enclosures
- Many Other Related Products and Accessories

The factory floor schematic shown here is presented as an illustration of how and where L-com products can be used in factories or other industrial applications, and is not a real application schematic.

NEMA ENCLOSURE

VISION USB CABLE

ARMORED D-SUB CABLE

INDUSTRIAL FAST ETHERNET SWITCH

M12 CABLE

IP67 M12 SWITCH

ARMORED HDMI CABLE

USB VISION EXTENDER

SENSOR

MACHINE VISION

INDUSTRIAL IP67 ETHERNET PoE SWITCH

GIGABIT ETHERNET MACHINE VISION CABLE

FACTORY FLOOR

IP67 M12 SWITCH

MACHINE VISION

M12 CABLE

SENSOR

L-com

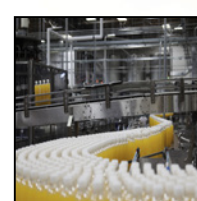**an INFINITE brand**
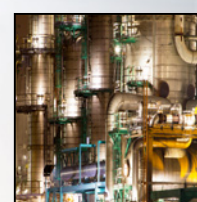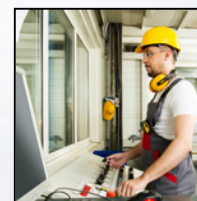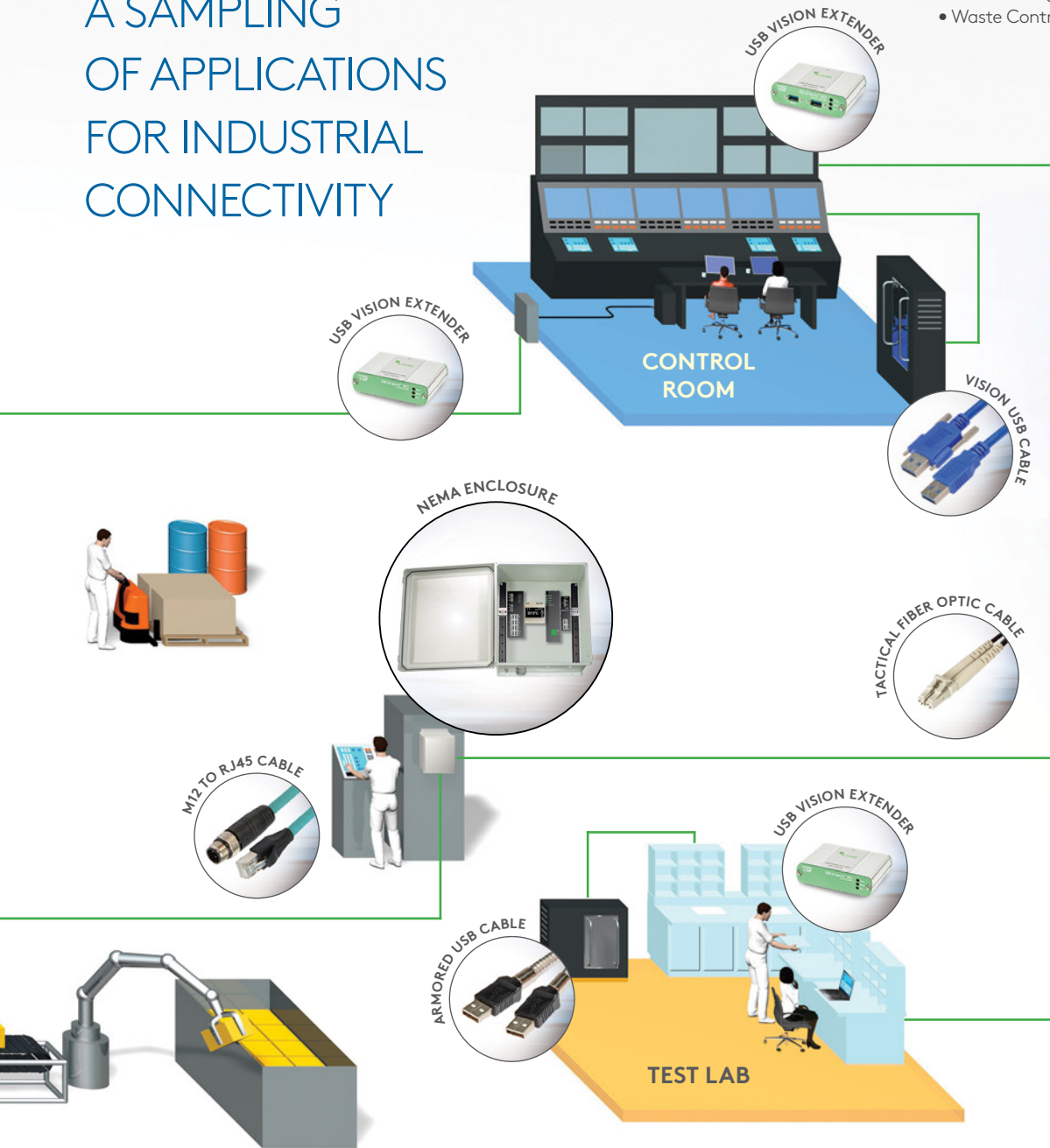
THE CONNECTION EXPERTS!

Industrial Connectivity Applications

Industrial applications cover many uses for connectivity products, and they often share similar requirements. They typically operate in extremely harsh environments, under temperature extremes, with exposure to corrosive chemicals and more. Here are just a few of the many possible industrial applications for rugged L-com connectivity products.

- Oil and Gas Industries
- Mining
- Transportation
- Warehousing
- Waste Control

A SAMPLING OF APPLICATIONS FOR INDUSTRIAL CONNECTIVITY

USB VISION EXTENDER

USB VISION EXTENDER

CONTROL ROOM

VISION USB CABLE

NEMA ENCLOSURE

TACTICAL FIBER OPTIC CABLE

M12 TO RJ45 CABLE

USB VISION EXTENDER

ARMORED USB CABLE

TEST LAB

L-COM INDUSTRIAL CONNECTIVITY SOLUTIONS

SELECTION GUIDE FOR CABLE USED IN INDUSTRIAL ETHERNET ASSEMBLIES

ITEM #	RATING	AWG	JACKET MATERIAL	JACKET COLOR	UTP	FOIL + BRAID SHIELD	HI-FLEX	UV RESISTANT	OIL RESISTANT	HALOGEN FREE	SPECIAL NOTES
TFCPUR5730	C5e	26 str	PUR	Black		●		●	●		
TFCLS2005	C5e	26 str	PUR	Teal		●	●		●	●	CMX Flame Rating
TFCLS5075	C5e	26 str	PUR	Black		●	●		●	●	CMX Flame Rating
TFDL5083	C5e	26 str	FR-TPE	Black		●	●	●	●		CMX Flame Rating
TFDL5089	C5e	24 str	FR-TPE	Black		●	●	●	●		CMX Flame Rating, 600V
TFDL5025	C5e	24 str	FR-TPE	Teal		●	●	●	●		CMX Flame Rating, 600V, 2pair
TC5750	C5e	24 str	FR-TPE	Black	●		●	●	●		CMX Flame Rating
TOAC2004	C5e	24 sld	PE	Black	●			●			Gel-Filled, Aerial Lashed
TOBC2004	C5e	24 sld	PE	Black	●			●			Gel-Filled, Armored, Direct Burial
TOAC2005	C6	24 sld	PE	Black	●			●			Gel-Filled, Aerial Lashed
TOC35911	C6	23 sld	PE	Black	●			●			Gel-Filled
TFDL5026	C6a	26 str	FR-TPE	Teal		●	●	●	●		CMX Flame Rating

L-com Offers One of the Broadest Selections of Cable Assemblies Available

This selection guide highlights some of L-com's featured industrial cable assemblies. However, there are many more cable assembly variations and sizes offered. Please see the L-com Catalog at **www.l-com.com** for a more complete selection of L-com cable assemblies.
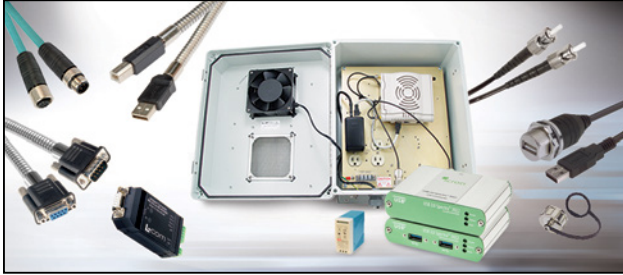
Rugged FR-TPE Jacketing

Many of the industrial cables provided by L-com are jacketed with a Flame-Retardant Thermoplastic Elastomer. FR-TPE is crush and scratch resistant, and is also resilient to various forms of chemical corrosion. This is an excellent dense and protective jacket, while remaining highly flexible.

KEY BENEFITS FROM L-com

Huge COTS Inventory

L-com offers one of the industry's largest inventories of Industrial Connectivity products. Visit **www.l-com.com** to check the current stock availability and price for any standard L-com Industrial Connectivity product.
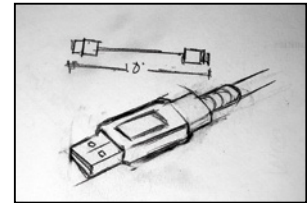
L-com offers Private Labeling & Packaging

Place your company name and logo on our products and our packaging. L-com provides the branding you need for private labeling.

Your Name Here

It's Easy to Modify or Customize Products

L-com's online custom cable configuration tool allows you to quickly and easily create custom:
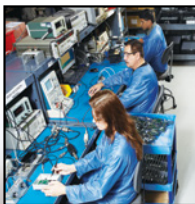
- Fiber optic cable assemblies
- Low Loss and RG Style Coaxial cable assemblies
- Telecom/modular Ethernet cable assemblies

L-com engineering experts provide personal custom design services for L-com products. Contact L-com for a CAD drawing to meet your special requirements.

L-com Designs, Manufactures & Tests Its Products

L-com designs and manufactures all L-com brand industrial connectivity products. We also test our products to meet or exceed performance specifications under strict Quality Control procedures. That's how L-com customers know their connectivity products will do what they need them to do.

L-com... YOUR TOTAL RESOURCE FOR INDUSTRIAL CONNECTIVITY

L-com RUGGED CONNECTIVITY PRODUCTS

The products shown below and on the following pages are highlights of the total L-com Industrial Connectivity product offering, which includes hundreds of SKUs. While L-com offers many standard products from one of the industry's largest COTS inventory, they specialize in making modifications to standard products. In addition, they will produce custom products to suit a customer's exact needs.

GigE Machine Vision Ethernet Assemblies

To optimize signal integrity, these Cat5e and Cat6a cable assemblies are designed for hi-speed Gigabit Ethernet networks, with jackets able to withstand hazardous industrial environments. Machine vision standard screws allow connectors to be locked down to protect against vibration, movement and accidental disconnect.

Vision USB Cable Assemblies

L-com Vision USB cable assemblies, manufactured per the USB3 Vision™ standard, are ideally suited for machine vision applications. The screw mount hardware is also beneficial for other industrial applications where USB connectors can become dislodged due to jostling, vibration, etc. L-com is a member of the Automated Imaging Association.

USB 3.0 Extenders

This two-port super speed extension enables USB 3.0 connections at up to 5 Gbps over 330 ft./100m of multimode fiber optic cable. Features two locking USB 3.0 ports per AIA USB3 Vision specification and delivers 900mA of power to each port.

Outdoor and Industrial Continuous Flex Ethernet

Protect outdoor Ethernet runs with L-com outdoor rated cable assemblies. In addition, L-com Industrial Continuous Flex Ethernet assemblies are made to take a beating. Built with ultra flexible cable, these assemblies are designed to be flexed for millions of cycles without performance degradation.

Industrial Fiber Cable Assemblies

L-com's IP67 rated Duplex LC cable assemblies are designed for use in harsh industrial environments. These rugged assemblies feature outdoor rated cable which stands up to hostile environmental conditions.

Military Grade Fiber Optic Cable Assemblies

These Military Grade fiber optic patch cables feature impact and crush resistance to comply with military requirements. Assemblies with ruggedized ST connectors feature rust-resistant stainless steel bodies and extra high force springs to ensure tight mating when exposed to shock and vibration.

IP67 and IP68 Rated USB Cable Assemblies

L-com waterproof USB cable assemblies feature rugged molded or metal outer shells and threaded couplings with O-ring seals to withstand contaminants such as water or dust. Shielded versions are available, along with a variety of connector options. Revision 2.0 compliant.

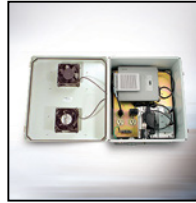### Ruggedized IP68 Rated RJ45 Cable Assemblies

These Cat5e assemblies are the most rugged and durable L-com has ever offered. Designed for use in outdoor, industrial and military applications, where the harshest environments exist, these durable assemblies are built using our IP68 ruggedized RJ45 plugs and jacks. The Category 5e cable used in these assemblies is double shielded, high-flex UV and oil-resistant and made with a FR-TPE (Flame Retardant Thermoplastic Elastomer) jacket that is CMX outdoor rated. Superior shielding of both the cable and connectors ensures higher data transmission rates up to Gigabit Ethernet speeds.

Transversely Sealed Connectors

All of L-com's ruggedized RJ45 jam nuts, flanges and in-line receptacles are transversely sealed and waterproof. The parts meet or exceed IP68 rating with or without dust covers or mated connectors engaged with the receptacle.

Armored USB, HDMI and D-Sub Cable Assemblies

A stainless steel and crush-resistant (up to 1500 psi) jacket provides protection for USB, HDMI, D-subminiature and DVI (not shown) cables that are exposed to excessive force and other harsh conditions.

M12 Cable Assemblies

L-com has a variety of M12 cable assemblies using 4, 5, or 8 pin connections for data, Cat5e and Cat6a. FR-TPE or PUR jackets can be UV, chemical and weld-splatter resistant, as well as high voltage, high flex, and outdoor rated. Assemblies come in IP67, IP68 or IP69K and are ideal for outdoor, factory automation and other industrial environments.

M8 Cable Assemblies

L-com's M8 cable assemblies can be used for applications requiring an IP sealed connector in a tight space, such as in industrial control or sensor applications. M8 assemblies are designed to withstand harsh environmental, industrial and climate conditions.

Cable Glands

Cable glands and feed-throughs provide versatile solutions for running connections into panels and enclosures, while still maintaining an IP rated seal.

NEMA Enclosures

L-com industrial NEMA Enclosures are designed to withstand the environmental and corrosive conditions in processing facilities and manufacturing plants. They are ideal for SCADA applications and outdoor field installations where sensitive electronics are exposed to extreme temperatures.

Industrial Ethernet Media Converters

L-com plug and play Industrial Ethernet Media Converters feature dual 10/100TX RJ45 ports as well as one duplex SC fiber port. Available in Multimode and Single Mode versions.

Industrial Ethernet and PoE Ethernet Switches

L-com offers an extensive line of rugged Industrial Ethernet Switches for harsh environments. With managed and unmanaged models available, these DIN mountable switches provide up to 16 ports for maximum flexibility. In addition, Power-over-Ethernet (PoE) switches are available for networks requiring use of PoE enabled devices.

DIN Rail Mount Power Supplies

L-com power supplies provide a reliable 24V DC power source for L-com Industrial Ethernet switches and media converters. NEC Class 2/LPS compliant.

Protocol Converters

These converters will isolate and convert RS-232 signals into RS-422/RS-485 signals and vice versa, or RS-232/RS-485 to a USB port. Repeaters will extend your data, and industrial hubs with four USB ports ensure tight connections to standard USB cables, even in high vibration applications.

L-com

an INFINITe brand

www.L-com.com

L-com CONTACT & ORDERING INFORMATION

Call Center and Technical Support

Hours of Operation

Monday - Friday   8am - 8pm ET

Phone and Fax

Contact Center	1-800-341-5266
Direct Line	1-978-682-6936
24 hour Fax	1-978-689-9484

E-Mail

Account Reps	sales@l-com.com
Customer Service	customerservice@l-com.com
Product/Tech Support	support@l-com.com

Online Ordering 24/7

www.l-com.com