



### What does transversely sealed mean?

Did you know that all of L-com's new ruggedized RJ45 plugs, jam-nuts, flanges and in-line receptacles are transversely sealed? As the name implies, this means that they are waterproof. The parts meet or exceed IP-68 rating with or without dust covers or mated connectors engaged with the receptacle. The plugs and jacks are waterproof even without a mated cap or connector when submerged under 1 meter of water for up to two days! Your equipment will not be at risk from moisture or dust even if you lose or forget the dust cap!



#### Ruggedized RJ45 Plug and Jack Performance Specifications:

Specification	Parameter	Range
Insertion Loss	IEEE 802.3	LX 1000 BASE-T, NXT, FXT
Temperature Cycling	EIA-364-32, 25 Cycles	-45°C to +100°C
Temperature Shock 5 Cycles	EIA-364-32	-40°C to +100°C
Humidity Resistance	EIA-364-31	21 Days 43°C, 98% Humidity
Water Submersion	IP-68, IEC-60529	1M Depth, 48 Hours
Dust Test	IP-68, IEC-60529	20m BARS Air Pressure, 8 Hours
Mechanical Shock	EIA-364-27B 100G	6ms, Half Sine, 6 directions
Vibration, 4 Hours Per Axis	EIA-364-28	Test Condition IV, 12 Hours Total
Mating Durability	EIA-364-09	500 Mate / De-mate Cycles
Flammability	Per UL94	Compliant to V0, V1, 10 sec. each
Salt Spray	EIA-364-26	500 Hours
Shell-To-Shell Conductivity, (ZiNi Plating Only)	EIA-364-83	1V @ 1.5VDC, 100 Hours

Item #	Description	Reel	Color	List Price
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#### RoHS Category 5E PUR Double Shielded Oil Resistant Jacket Industrial Ethernet Bulk Cable

This Polyurethane jacketed cable is not only UV and Oil resistant but double shielded to keep out unwanted EMI/RFI interference. With a wide temperature operating range of -40°C to +75°C, it is ideal for harsh factory environments.

TFCPUR5730	Category 5E, Double Shielded, PUR 4-pr. Stranded, 26 Awg	1,000ft Reel	Black	949.00
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#### RoHS Category 5E Continuous Hi-Flex Oil Resistant Ethernet Bulk Cable

These special ultra flexible bulk cables are built for rough factory floors. Both TC5700 and TC5750 are tested to 1 million flex cycles (10x cable OD min. radius) and 10 million flex cycles (20x cable OD min. radius). TC5700 features a Polyurethane and UV resistant jacket. TC5750 features a Flame-Retardant Thermoplastic Elastomer and UV resistant jacket. Both have a wide operating temperature of -40°C to +75°C.

TC5700	Category 5E, PUR 4-pr. Stranded Hi-Flex, 24 AWG	1,000ft Reel	Black	585.00
TC5750	Category 5E, FR-TPE 4-pr. Stranded Hi-Flex, 24 AWG	1,000ft Reel	Black	590.00

Item #	Description	Reel	Color	1-9	10-24	25-99	100-249
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#### RoHS Category 5E Shielded Continuous Hi-Flex Oil Resistant Ethernet Bulk Cable

These cables are designed for environments where ordinary cables fail. These L-com exclusive ultra flexible bulk cables are built to take a beating. With Halogen-free PUR jackets, these Hi-Flex cables will not breakdown when exposed to oil based lubricants making them ideal for robotic control systems on the factory floor. TFCHF2004 is tested to 2.5 million flex cycles (12.5x cable OD min. radius). TFCLS2005 is tested to 10 million flex cycles (20x cable OD min. radius).

TFCHF2004	Category 5E Shielded, 4-pr. Stranded Hi-Flex, 26 AWG	1,000ft Reel	Teal	2995.00	2935.10	2875.20	2815.30
TFCLS2005	Category 5E Shielded, 4-pr. Stranded Extreme Hi-Flex, 26 AWG	1,000ft Reel	Teal	1449.00	1420.02	1391.04	1362.06



### Understanding Industrial Cables

L-com's industrial cables are made to take a beating and keep on transmitting. They are able to accomplish this by utilizing special jackets and materials in their construction. Please use the following reference for a quick guide to understanding Industrial cables:

**PUR** cables are made using a Polyurethane jacket. They are tough, flexible, and resilient. This material can be stretched, smashed or scratched while remaining fairly indestructible. It can also be deformed over and over again and return to its original shape.

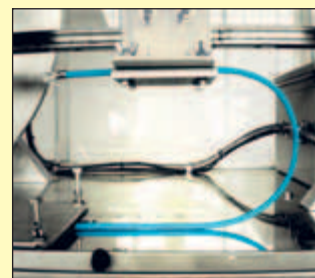
**FR-TPE** means Flame-retardant Thermoplastic Elastomer. It is a material similar to PUR that is strong when struck, hard if scratched and is resistant to various forms of chemical corrosion. It makes an excellent dense and protective jacket while remaining highly flexible.

**Halogen-free** cables, as the name implies, are free of harmful halogens if burned. This protects valuable equipment and resources from the potentially harmful toxic or acidic smoke that can be found in other cable jackets.

**Oil Resistant** cables are made from materials that will not corrode or breakdown when exposed to most chemicals and oils found in an industrial environment.

**UV Resistant** cables are resistant to ultraviolet light and sunlight, as such, they will not weaken, be destroyed or faded by light exposure.

**Hi-Flex** cables utilize a combination of flexible jackets with specialized stranded conductors which allow the cables to be flexed over and over again, literally millions of times, before the performance of the cable will suffer.



An Industrial Bulk Cable Undergoing Flex Testing

TFCPUR5730



TFCPUR5730

- PUR jacket
- UV resistant
- Oil resistant
- Double shielded
- -40° to +75°C
- 26 AWG Stranded



TC5700



TC5700

- PUR jacket
- UV resistant
- Oil resistant
- Hi-Flex
- -40° to +75°C
- 24 AWG Stranded



TC5750



TC5750

- FR-TPE jacket
- UV resistant
- Oil resistant
- Hi-Flex
- -40° to +75°C
- 24 AWG Stranded



TFCHF2004



TFCHF2004

- PUR jacket
- Oil resistant
- Halogen free
- Hi-Flex
- Shielded
- -40° to +50°C
- 26 AWG Stranded



TFCLS2005



TFCLS2005

- PUR jacket
- Oil resistant
- LSZH
- Double shielded
- -40° to +75°C
- 26 AWG Stranded



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