

Your Global Automation Partner

TURCK

Low-Smoke, Halogen-Free Cable Extremelife™-70



A Global Leader in Industrial Automation

Turck's sensors, connectivity, and fieldbus technology products are built to be the best. As one of the most **prominent** sensor manufacturers **in the world**, we even back our sensors with a **lifetime warranty**. Turck works by bringing **rugged engineering** solutions to your industrial automation applications.

85,000+
SOLUTIONS

50+
YEARS OF INNOVATION

2,000+
EXPERIENCED SALES REPRESENTATIVES

Pioneer in non-contact
sensing technology

Developed innovative **connectivity**
solutions in response to our customers' needs

Recognized the need for advanced **I/O solutions**
in harsh duty environments

**SUPPORT &
DEDICATED SERVICE**

EXTENSIVE WARRANTY



4,000+
APPLICATION EXPERTS

RESPOND
and SOLVE over **1,200** inquiries
per day



Strategically placed manufacturing facilities in the

USA with **30** GLOBAL
SUBSIDIARIES

GLOBAL BUT LOCAL...

60 representations worldwide



A Single Cable Source Meets Worldwide Requirements

Turck Extremelife™-70 cable with NEK 606 enhanced oil and mud resistance is the first global cable offering to meet both North American NEC flame and tray installation requirements (FT4/IEEE 1202) and global requirements for low-smoke, halogen-free content. This multi-listed approach simplifies cable logistics for global projects allowing a single cable source that meets worldwide installation requirements.

Equipped for marine and arctic weather conditions, Extremelife-70 includes UL and C(UL) -70 °C cold bend and -40 °C cold impact listings and remains flexible to work with down to -40 °C. It is IEEE 1580-2010 and IEC 60092 Marine Shipboard approved and American Bureau of Shipping (ABS) certified. These cables are robust and reliable, whether exposed to crush, impact, abrasion, cold, flame, oil, mud, chemicals, or UV.

Attributes

Jacket Material:	LSHF TPPO (ST1 SHF1)	Mud and Oil Resistant:	Excellent
Temp Rating:	-70 °C to 105 °C	Flame Retardant:	Excellent
Cold Bend:	-70 °C	Water:	Very Good
Cold Impact:	-40 °C	Flexibility:	Good
Crush and Impact:	Excellent	Greases:	Excellent
Cut and Abrasion:	Good	Alcohol:	Good
UV/Sunlight Resistant:	Excellent	Acids <20%:	Good

Features

- Rugged yet flexible and lightweight, making it easy to install.
- Customization with low minimums and quick turn-around.
- Low-smoke, halogen-free plus meets NEC requirements.
- Cut-to-measure by the meter lengths, minimizing waste.
- Approved stainless steel connector and receptacle assemblies for use in IECEx and ATEX hazardous area applications.



LOW-SMOKE

HALOGEN-FREE

OIL & MUD RESISTANT

WITHSTANDS HEAT & COLD

HIGHLY FLEXIBLE

High Quality Cables with Multiple Approvals

Turck serves a broad range of industries that often call for cables with specific approvals to meet challenging environments.

From arctic cold to high heat, grease, mud or abrasion, count on cable solutions from Turck that have been certified by independent third parties to last.



- UL 1277
 - 600V TC exposed run
 - Direct burial and ST1 (UL low-smoke designation)
 - -40 °C cold impact
 - Oil resistant I & II
 - Sun resistant
 - FT4 (18 AWG – 5 AWG)
- UL 13 and UL 2250
 - 300V PLTC and ITC exposed run
 - Direct burial and ST1
 - -70 °C cold bend
 - Oil resistant I & II
 - Sun resistant
 - FT4 (22 – 12 AWG)



- C(UL) 22.2 NO. 239 CIC/TC DB, ST1 Sun resistant
- C(UL) 22.2 NO. 239 ACIC/TC (Armored)
- C(UL) 22.2 NO. 239 CIC DB 300V



- IEC 60332-3-22; Flame-retardant
- IEC 60754-1 & 2; Halogen-free
- IEC 61034; Low-smoke
- IEC Marine shipboard 60092-350, 353, 360 & 376



Industries

Heat, Oil, Chemicals, Impact? One Solution for Multiple Challenges.

Marine & Offshore

Marine vessels and other applications near waterways or shipping channels require cables that are halogen-free, NEC flame retardant and self-extinguishing (preventing propagation of flame) as well as highly flexible for installation in narrow spaces. Cables must also meet international standards IEC 60092 and IEEE 1580-2010 for marine shipboard approvals. Turck not only meets those standards, its solutions have undergone rigorous testing and are also ABS certified and NEK 606 compliant.

Oil & Gas

Cables used in offshore and onshore drilling rigs and other equipment need to be designed to withstand the extreme conditions found in drilling - whether it is for exploration, production or refining applications. Extremelife-70 cables from Turck are field-proven, rugged and reliable even when exposed to the worst conditions like impact, flame, oil, drilling mud, chemicals, or UV light. Hazardous locations like those found in oil and gas applications need cable and connectivity solutions that are IECEx and ATEX approved for hazardous atmospheres. Extremelife-70 cables combined with stainless steel connector and receptacle assemblies provide the needed certifications and protection.

Process Industries

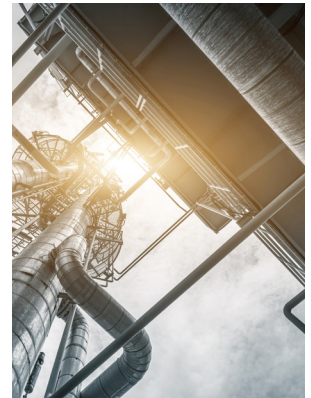
Industries such as mining and pharmaceutical require connectivity solutions that can meet the requirements of these challenging applications. Protection against ingress hazards like dust, dirt, moisture and other elements is vital to maintain signal integrity. Plus, many applications also call for cable that can withstand flexing and abrasion. Turck's Extremelife-70 solutions are engineered to withstand these harsh conditions.

Energy Production

Industrial cables used on power generation products such as gas turbines and wind turbines require a high level of reliability. Extremelife-70 cables withstand the environmental elements of heat, cold and abrasion found in these applications.

Can't find what you are looking for? Let our team of connectivity experts find a custom solution for you.

When other's say no, Turck finds a way.



Turck Inc. sells its products through Authorized Distributors. These distributors provide our customers with technical support, service, and local stock. Turck distributors are located nationwide – including all major metropolitan market areas.

For Application Assistance or for the location of your nearest Turck distributor, call:

1-800-544-7769

Specifications in this manual are subject to change without notice. Turck also reserves the right to make modifications and makes no guarantee of the accuracy of the information contained herein.

Literature and Media questions or concerns?
Contact Turck USA Marketing – tusa.marketing@turck.com

TURCK



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60 representations worldwide!

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