

Your Global Automation Partner

# TURCK

## Process Wiring for Combustible Dust Applications





## Prevent Combustible Dust Explosions

Combustible dust particles can be generated in a wide range of industries during manufacturing, processing or storage and handling. It can be a hidden danger to personnel and property and appears in applications you might not expect. Dust particles can increase the risk of an explosion when a potential source of ignition is also present. Many common materials can become combustible when in powder form. The finer the particles – the higher the risk.

- Grain
- Coal
- Metal
- Plastic
- Wood
- Chemicals
- Pharmaceuticals
- Sugar, flour, milk powder

## Built for Process Automation Challenges

Turck has a long-standing reputation in process automation as a leader in connectivity solutions for the most challenging applications. Not only do we offer cable designed to stand up to extreme temperatures, frequent exposure to chemicals and continuous abrasion, we offer a range of connectivity products for hazardous locations. Flammable gas, vapors or combustible

dust are no problem thanks to certifications to help ensure plant and employee safety.

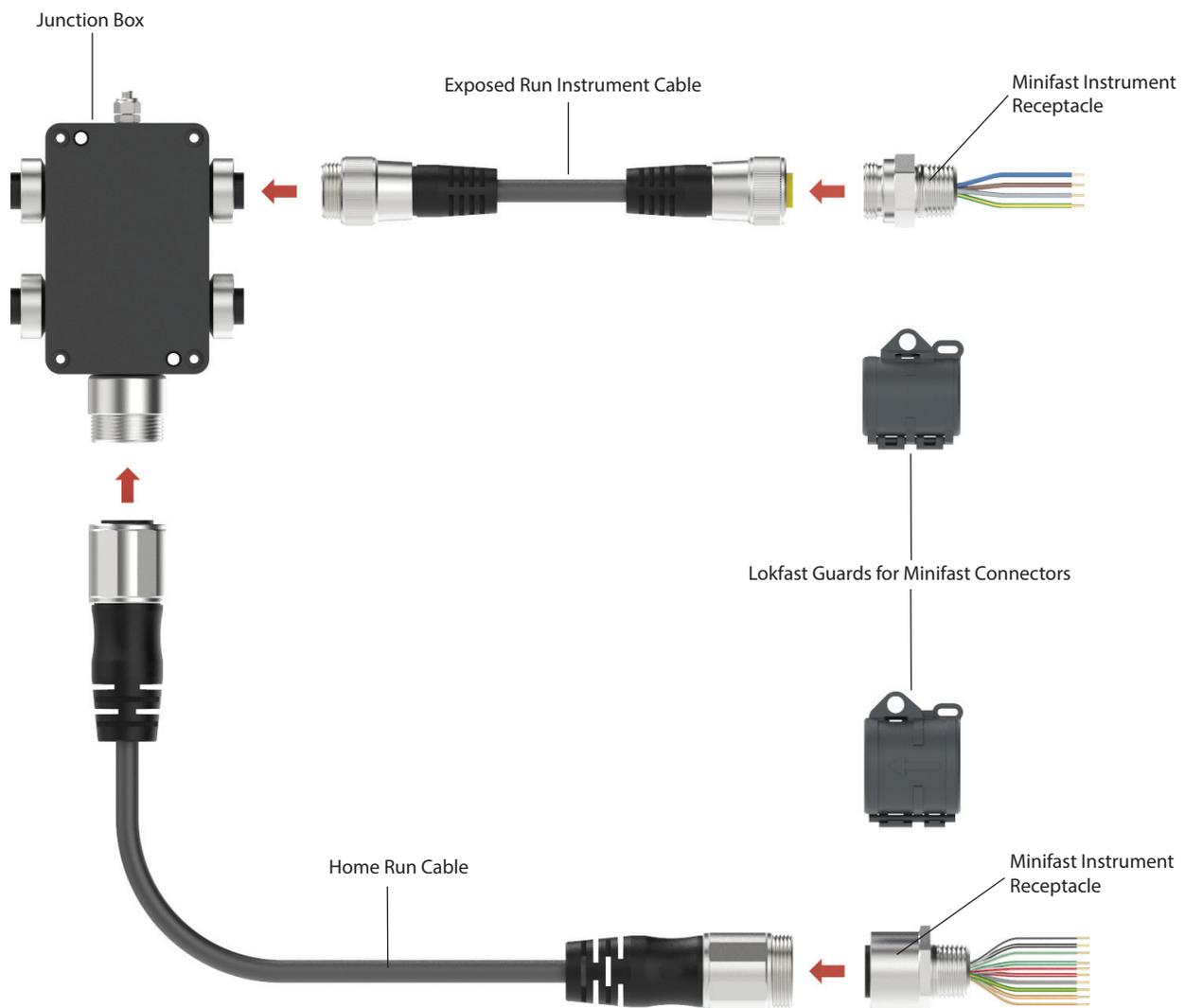
Turck is your connectivity partner for high-quality electrical solutions. We can provide design assistance and value-add solutions at any time. Contact us to learn more 1-800-544-7769.

# Lower Your Risk of Hazards from Combustible Dust

**Class II, Division 2 Wiring  
Only Available at Turck**

Per the National Electric Code (NEC), hazardous environments are divided into classes, divisions and groups. Class I indicates the presence of flammable gases or vapors and Class II is for combustible dust. Turck's line of Minifast process automation connectivity solutions is certified by FM for both Class I and Class II, Division 2 areas.

## Rugged Minifast Line Ideal for Process Automation



Turck's Minifast Process Wiring Example

# Minifast – Wiring for a Safer Environment

Turck is now able to offer a full line of FM approved process wiring in the Minifast family. Products include high quality junction boxes, cordsets and receptacles for installation in Class II, Division 2 areas where combustible dust is present.

New certifications open additional process automation applications and provide greater peace of mind. Turck's superior design reduces costs and installation time while improving performance.

## Advantages of the Minifast Line:

- Reduce installation and commissioning time
- Consolidate signals using instrument receptacles, drop cords, junction boxes and homerun cordsets
- Get superior chemical resistance and flexibility due to UL and CSA certified cables with premium insulation
- Choose from stainless steel or nickel-plated brass hardware
- Reduce overall costs and down time repairs
- Eliminate conduit/fittings and the potential for water/condensation buildup
- Eliminate poured seals



Eliminate traditional wiring methods of conduit, wire and poured seals with specially designed receptacles, connectors and gas block cables.



FM approved for installation in Class I, Division 2, Group A, B, C, D and Class II, Division 2, Group E, F, G, and Class I, Zone 2, Group IIC.



**EXP feed-thru**



**Junction box**



**Cordsets**



**HL Extensions**



**Y fitting**

# Cable for Extreme Applications

In addition to the Minifast line, 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 or abrasion, count on cable solutions from Turck that have been certified by independent third

parties to last. Extremelife-60 cables are Class I and Class II, Division 2 certified and offer a premium solution for extreme applications, meeting the same test specifications as metal clad armored cables. Customized configurations available.

## Approvals:

- UL: ITC, PLTC, ITC-ER, PLTC-ER, TC-ER HL, and Direct Burial
- CUL: CIC Listed (300 V), CIC/TC Listed (600 V), Direct Burial
- NEC/CEC: approved for use in Class I and Class II, Division 2 hazardous locations
- IEC: Jacket is Type ST2 per IEC 60092-360:2014, IEC 60332-3-22 (flame)



# More Turck Solutions for Hazardous Areas

- IMX intrinsically safe barrier for use between safe and hazardous areas
- Excom remote I/O system for hazardous areas
- Hazardous area cables for Div 1 locations
- NAMUR proximity sensors for hazardous areas



# TURCK



30 subsidiaries and over  
60 representations worldwide!

**Printed in USA**

B2107 A 06/21

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