

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM17US0137

3. **Equipment:** A-Size & D-Size Powerfast Cord Set Assemblies  
(Type Reference and Name)

4. **Name of Listing Company:** Turck Inc.

5. **Address of Listing Company:** 3000 Campus Drive  
Plymouth, MN 55441  
USA

6. The examination and test results are recorded in confidential report number:

3039564 dated 24<sup>th</sup> May 2012

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2011, FM Class 3610: 2015, FM Class 3611:2004, FM Class 3810:2005

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. **Equipment Ratings:**

Nonincendive for use in Class I, Division 2, Groups A, B, C & D hazardous (classified) locations; Class I, Zone 2, Groups IIC; in accordance with control drawing Ni-2.416.

11. The marking of the equipment shall include:

Class I, Division 2, Groups A, B, C, D; T6 Ta = 80°C;  
Class I, Zone 2, Group IIC; T6 Ta = 80°C;

**Certificate issued by:**



J.E. Marquardt  
Manager, Electrical Systems

25 April 2017

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

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# SCHEDULE



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## 12. Description of Equipment:

**General** - The A-Size & D-Size Powerfast Interconnection Cord Set Assemblies are comprised of an interconnection cable, connector guards and connectors. The cable is molded to the connectors, which plug into Powerfast receptacles. The use of the Lokfast connector guards and TC-rated cabling enable the use of quick-disconnect connector technology in hazardous locations..

**Ratings** - The A-Size & D-Size Powerfast Interconnection Cord Set Assemblies have an ambient operating temperature range of -40°C to +80°C. Refer to Control Drawing NI-2.416 for types of connections and values.

### **D-Size Powerfast Cords and Receptacles**

Model No.	Description
P-PWR-GKDFa bc-eM/f	Female Receptacle
P-PWR-GSDFa bc-eM/f	Male Receptacle
P-PWR-GKDa bc-d-eM	Straight Female Cord
P-PWR-GSDa bc-d-eM	Straight Male Cord
P-PWR-GKDWa bc-d-eM	Right Angle Female Cord
P-PWR-GSDWa bc-d-eM	Right Angle Male Cord

See control drawing NI-2.416 for permitted cord combinations.

a = Material Code: A, M or V

b = number/AWG of conductors: 30, 32, 34, 40, 42 or 44

c = pinout/color code: 1, 2, 3, 4, 5, 6, 7, 8, 9 or blank

d = 4-digit TC-ER cable number or blank

e = cable or lead length (meters)

f = Entry thread: /14.5/NPT, /14.75/NPT, or M20

### **D-Size Powerfast Feed-Thru Receptacles**

Model No.	Description
P-PWR-GKDFa-bcEX-eM/f	Female Receptacle
P-PWR-GSDFa-bcEX-eM/f	Male Receptacle

a = Material Code: M or V

b = number/AWG of conductors: 30, 32, 34, 40, 42 or 44

c = pinout/color code: 1, 2, 3, 4, 5, 6, 7, 8, 9 or blank

e = cable or lead length (meters)

f = Entry thread: /14.5/NPT or /14.75/NPT

### **A-Size Powerfast Cords**

Model No.	Description
P-PWR-RKFa cd-fM/g	Female Receptacle
P-PWR-RSFa cd-fM/g	Male Receptacle
P-PWR-RKa cd-e-fM	Straight Female Cord
P-PWR-RSa cd-e-fM	Straight Male Cord
P-PWR-WKa cd-e-fM	Right Angle Female Cord
P-PWR-WSa cd-e-fM	Right Angle Male Cord
P-PWR-GSDMb RKa cd-0	D-Size to A-Size Reducer

See control drawing NI-2.416 for permitted cord combinations.

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a = Material Code: M or V  
b = Material Code: A, M or V  
c = Number/AWG of conductors: 34 or 44  
d = Pinout/color code: 1, 2, 3, 4, 5, 6, 7, 8, 9 or blank  
e = 4-digit cable number  
f = Cable length (meters)  
g = Entry thread: /14.5/NPT, /14.75/NPT, or M20

## **Powerfast Tees**

Model No.
P-PWR-GSDa/2GKDa ce-f-g
P-PWR-GSDa/GKDa/GKDWa ce-f-g
P-PWR-GSDa/GKDa/RKb de-f-g
P-PWR-GSDa/GKDa/WKb de-f-g
P-PWR-GSDa/GKDa/Tce-f-g
P-PWR-SH-GSDa/2GKDa ce-f-g
P-PWR-SH-GSDa/GKDa/GKDW ace-f-g
P-PWR-SH-GSDa/GKDa/RKb de-f-g
P-PWR-SH-GSDa/GKDa/Tce-f-g
P-PWR-SH-GSDa/GKDa/WKb de-f-g

a = Material Code: A, M or V  
b = Material Code: M or V  
c = Number/AWG of conductors: 30, 32, 34, 40, 42 or 44  
d = Number/AWG of conductors: 32 or 44  
e = Pinout/color code: 1, 2, 3, 4, 5, 6, 7, 8, 9 or blank  
f = 4-digit TC-ER cable number or blank  
g = Cable length (meters), or blank

### 13. Specific Conditions of Use:

None

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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## **16. Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
24 <sup>th</sup> May, 2012	Original Issue.
25 <sup>th</sup> April 2017	<u>Supplement 1:</u> Report Reference: – 3057587 dated 25 <sup>th</sup> April 2017 Description of the Change: Updated to new format. Feed-thru receptacles added.

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