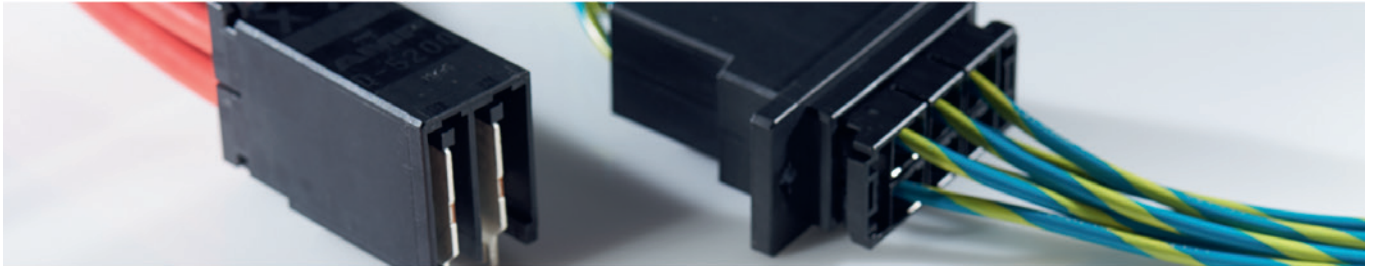


D-3000 First Mate Last Break (FMLB)

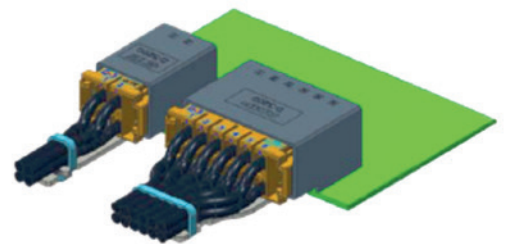
Dynamic Series connector system



TE Connectivity's (TE) new first mate last break (FMLB) Dynamic Series connectors are designed for applications where there are specific **grounding requirements**. It allows the ground to be established prior to the power connections being made, and the ground is maintained until after the power connections are broken. The latest addition to this family is the D-3000 FMLB 5.08mm option, now offering FMLB solutions from signal level circuitry to power circuit connectivity up to 15A – all in a ruggedized, industrialized package.

FEATURES

- Additional **grounding** feature **NEW**
- IP20 certified **NEW**
- Plug-on strain relief **NEW**
- 0.38 µm gold plated contacts
- Vibration & shock proven design
- Integrated keying function
- Positive audible locking

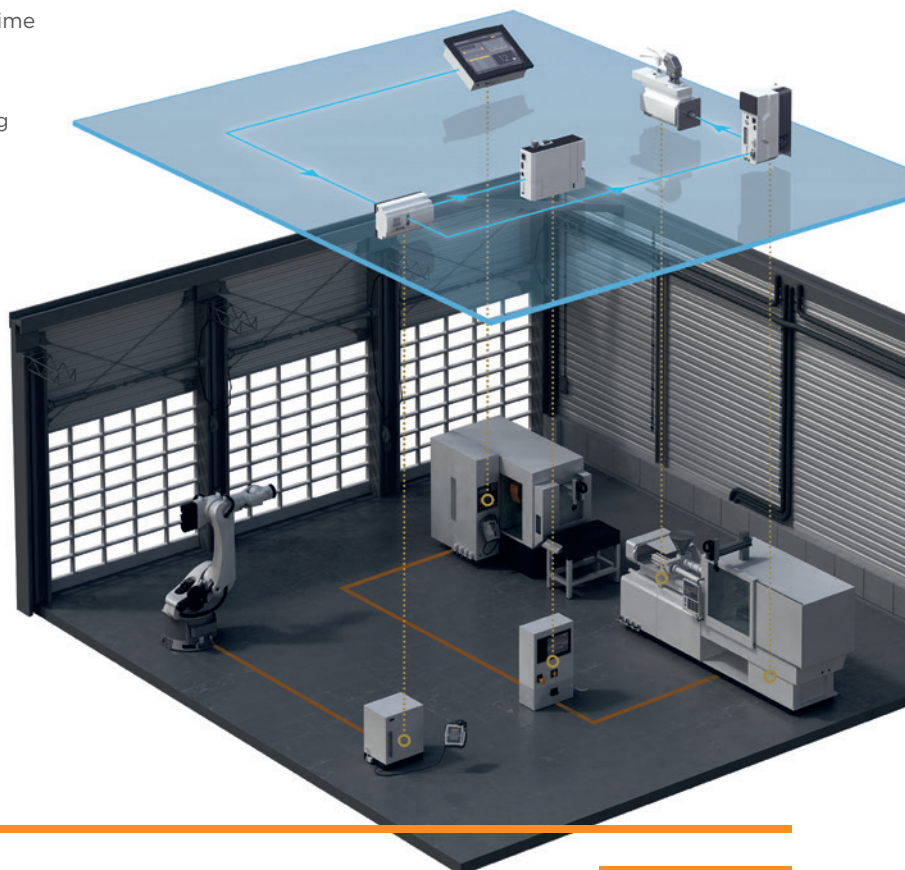


BENEFITS

- **Establish ground before making power connection** and maintain ground until after power connections are broken, helping ensure a safer connection
- Multiple points of contact, provide a very stable electrical and mechanical connection
- Gold plated contacts result in high conductivity and enable very low insertion forces
- Vibration resistant designed to withstand the most demanding and inhospitable environments
- Housings are keyed preventing mis-mating and misalignment, simplifying and reducing installation/maintenance time in the field for service engineers
- Positive audible locking sound when inserting the connector provides assurance of positive mating
- Lower your total cost of ownership by using the standard D-3000 hand applicator tooling

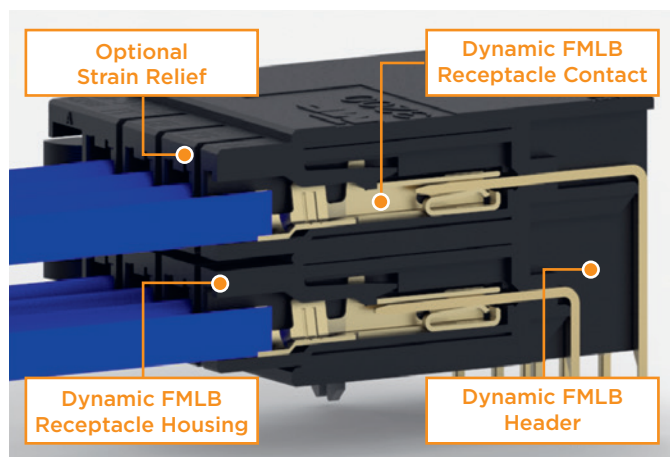
APPLICATIONS

- Industrial Control
- Human Machine Interface (HMI)
- Data Communication
- Motion & Drives
- Production Equipment
- Robotics
- Servo Drives
- Elevator/Escalator
- Power Distribution
- Industrial Process Controls
- Factory Automation Computers
- Numeric Controllers
- Variable Frequency Drives
- Switching Power Supplies

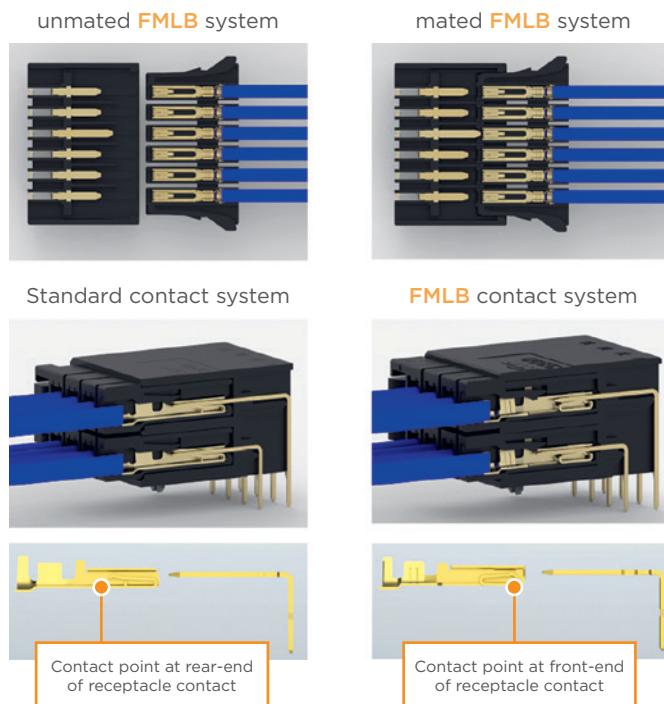


D-3000 First Mate Last Break (FMLB)

Dynamic Series connector system



- The **prolonged grounding contact** provides the first electrical connection during the mating procedure and is an essential part of each safety earthing system in electrical distribution systems
- The grounding contact can be positioned anywhere in the receptacle housing on request, tailored to the application requirements
- The new housings avoid mis-mating with existing standard Dynamic Series connectors due to **special keying**



D-3000 FMLB PRODUCT OFFERING

No. of Pos.	Keying	Rec Contact	Rec Housing	Plating*	Board Mounted Horizontal Header	Optional Strain Relief Kit**
4	RR	2298107-3 Strip (AWG 20-16 / 0.5-1.42 mm ²)	1-2291727-1	0.38 µm gold	1-2299004-1	1-2303376-1
	SS		2-2291727-1		2-2299004-1	2-2303376-1
12	RR	2298107-2 Strip (AWG 24-20 / 0.2-0.5 mm ²)	1-2291728-1		1-2299005-1	1-2303378-1
	SS		2-2291728-1		2-2299005-1	2-2303378-1

*all receptacle contacts and header contacts are available in 0.76 µm gold plating on request

**separate strain relief accessory part number: 2291733-2 (4 pos.), 2291733-6 (12pos.)

COMPLEMENTARY FMLB PRODUCT OFFERING WITHIN THE DYNAMIC SERIES CONNECTOR FAMILY

Description	D-2000	D-3000	D-4000	D-5000	D-7000***
Available position	3, 8, 12, 16	4, 12	2, 3, 4, 6	2, 3, 4, 6	4
Pitch (mm)	2.50	5.08	6.35	10.16	16.00
Maximum Current Rating (A)	5	15	24	35	65
Maximum Voltage Rating (V AC/DC) UL	250	600	600	630	630
AWG	28 ~ 18	20 ~ 16	16 ~ 12	16 ~ 8	16 ~ 6
Product Specifications	108-5619	108-5349	108-78182	108-5453	108-78470
Application Specifications	114-5258	114-5148	114-5369	114-5206	114-5452

***only wire to wire type available

Please find more information around Dynamic Series such as our product video on our [Dynamic Series landing page](#).