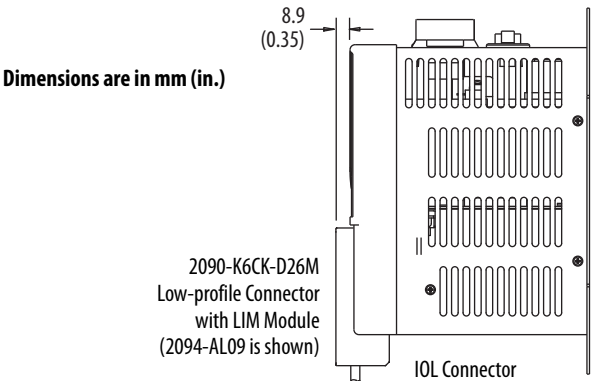In this example, the LIM module is shown with low-profile connector kit (catalog number 2090-K6CK-D26M). Use this connector with the I/O (IOL) connector on the 2094-AL09 and 2090-BL02 LIM modules. Refer to Low-profile Connector Kit Components on for more information.
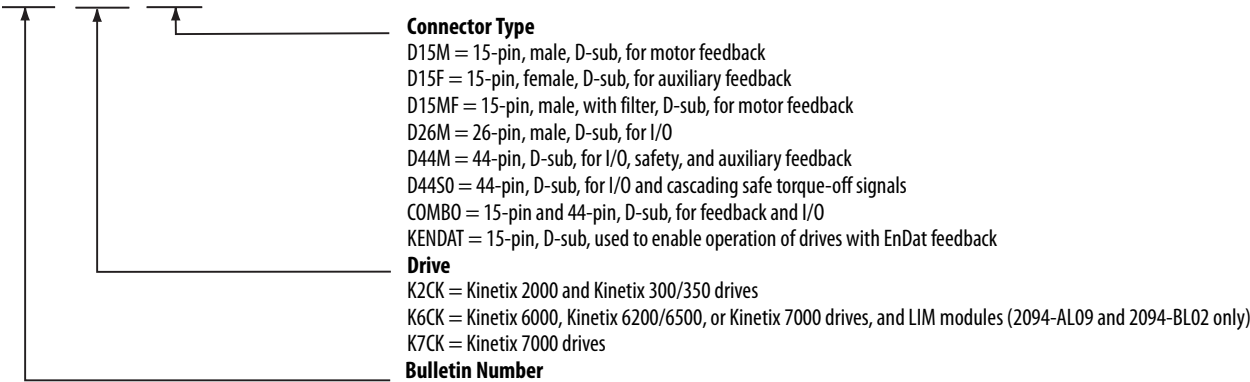
LIM Module Low-profile Connector Example

8.9
(0.35)

Dimensions are in mm (in.)

2090-K6CK-D26M
Low-profile Connector
with LIM Module
(2094-AL09 is shown)

IOL Connector

Catalog Numbers - Low-profile Connector Kits

Catalog numbers consist of various characters, each of which identifies a specific option for that component. Use the catalog numbering chart below to understand the configuration of your component.

2090 - K*x*CK - *xxxxx*

Connector Type
D15M = 15-pin, male, D-sub, for motor feedback
D15F = 15-pin, female, D-sub, for auxiliary feedback
D15MF = 15-pin, male, with filter, D-sub, for motor feedback
D26M = 26-pin, male, D-sub, for I/O
D44M = 44-pin, D-sub, for I/O, safety, and auxiliary feedback
D44S0 = 44-pin, D-sub, for I/O and cascading safe torque-off signals
COMBO = 15-pin and 44-pin, D-sub, for feedback and I/O
KENDAT = 15-pin, D-sub, used to enable operation of drives with EnDat feedback

Drive
K2CK = Kinetix 2000 and Kinetix 300/350 drives
K6CK = Kinetix 6000, Kinetix 6200/6500, or Kinetix 7000 drives, and LIM modules (2094-AL09 and 2094-BL02 only)
K7CK = Kinetix 7000 drives

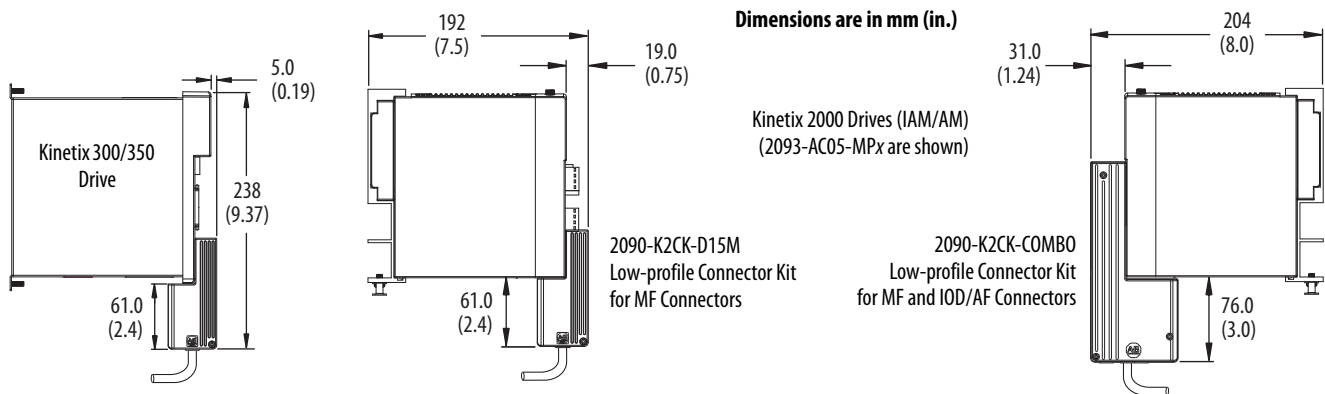**Bulletin Number**

Breakout Components and Connector Kits

This section contains examples, descriptions, dimensions, specifications, and catalog numbers for breakout components and connector kits.

Low-profile Connector Kits

Use these examples to identify the best solution for wiring flying-lead feedback and I/O cables to servo drives or line interface modules (LIM).
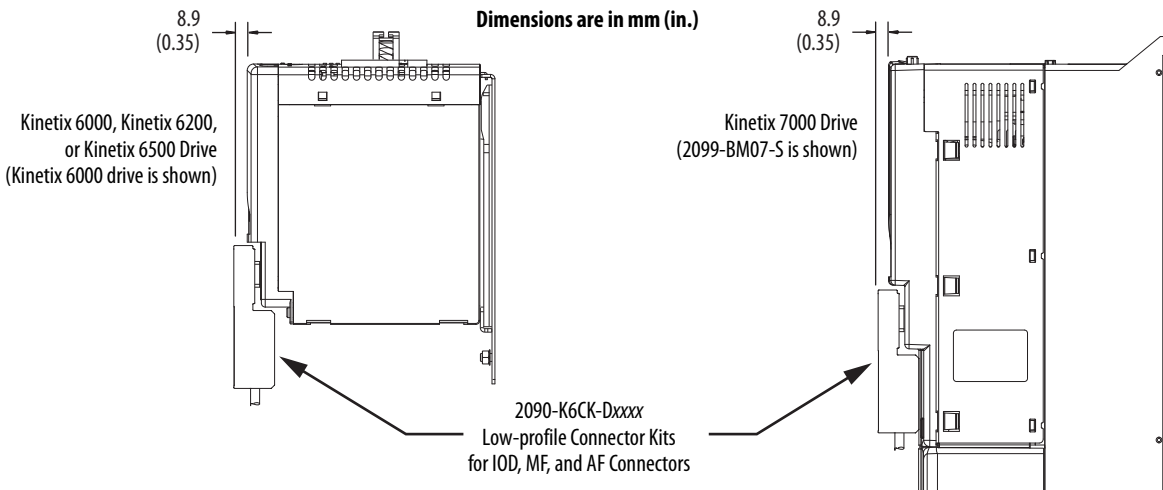
In this example, the Kinetix 2000 (IAM/AM) is shown with catalog number 2090-K2CK-D15M, for use with the motor feedback (MF) connector. Also shown is catalog number 2090-K2CK-COMBO for use with the motor feedback (MF) and I/O (IOD/AF) connectors. Refer to Low-profile Connector Kit Components on for more information.

Kinetix 2000 (IAM/AM) and Kinetix 300/350 Examples

Kinetix 300/350 Drive

5.0 (0.19)

238 (9.37)

61.0 (2.4)

192 (7.5)

19.0 (0.75)

61.0 (2.4)

2090-K2CK-D15M Low-profile Connector Kit for MF Connectors

Dimensions are in mm (in.)

Kinetix 2000 Drives (IAM/AM) (2093-AC05-MPx are shown)

31.0 (1.24)

204 (8.0)

2090-K2CK-COMBO Low-profile Connector Kit for MF and IOD/AF Connectors

76.0 (3.0)

In this example, the Kinetix 6000 and Kinetix 7000 drives are shown with low-profile connector kits (catalog numbers 2090-K6CK-D*xxx*). Use these kits with the I/O (IOD), motor feedback (MF), and auxiliary feedback (AF) connectors. The 2090-K6CK-D*xxx* kits also apply to the Kinetix 6200 and Kinetix 6500 drives. The Refer to Low-profile Connector Kit Components on for more information.

Kinetix 6000, Kinetix 6200, Kinetix 6500, and Kinetix 7000 Low-profile Connector Examples

8.9 (0.35)

Kinetix 6000, Kinetix 6200, or Kinetix 6500 Drive (Kinetix 6000 drive is shown)

Dimensions are in mm (in.)

8.9 (0.35)

Kinetix 7000 Drive (2099-BM07-S is shown)

2090-K6CK-D*xxxx* Low-profile Connector Kits for IOD, MF, and AF Connectors

Low-profile Connector Kit Components

Low-profile connector kits are designed for use with the Kinetix 300/350, Kinetix 6000, Kinetix 6200/6500, Kinetix 2000, and Kinetix 7000 drives, and LIM modules. Use this table to identify the low-profile connector kit for your feedback or I/O connector.

	IMPORTANT	The flying-lead compatible cables listed below require connector kits to complete feedback and I/O connections to the drive.

Cat. No.	Description	Cable Compatibility
2090-K2CK-D15M	Low-profile connector kit for motor feedback (15-pin, male, D-sub). Use with any Kinetix 2000 IAM/AM module or Kinetix 300/350 drive and compatible motors with incremental or high-resolution feedback. Does not include 3.6V battery (catalog number 2090-DA-BAT2) required for use with TLY-A*xxxx*-B high-resolution motors and 17-bit encoders.	2090-XXNFMF-S*xx* 2090-CFBM4DF-CDAF*xx* 2090-CFBM7DF-CEAA*xx* 2090-CFBM7DF-CEAF*xx* 2090-CFBM7DF-CDAF*xx* 2090-CFBM6DF-CBAA*xx*
2090-K2CK-COMBO	Low-profile connector kit for motor feedback (15-pin, male, D-sub) and IO (44-pin, male, D-sub). Use with any Kinetix 2000 IAM/AM module and compatible motors with incremental or high-resolution feedback. Does not include 3.6V battery (catalog number 2090-DA-BAT2) required for use with TLY-A*xxxx*-B high-resolution motors and 17-bit encoders. The 2090-K2CK-COMBO kit, mounted on the Kinetix 2000 (IAM/AM) drive, fits in a standard 10 in. enclosure.	
2090-K6CK-D15M	Low-profile connector kit for motor feedback (15-pin, male, D-sub). Use with any Kinetix 6000, Kinetix 6200/6500, or Kinetix 7000 drive and compatible motors with incremental or high-resolution feedback.	
	Low-profile connector kit for motor feedback (15-pin, male, D-sub). Use with any Kinetix 6000 IAM/AM module and MPL-B*xxxx*-R or MPM-A/B*xxxxx*-2 (resolver feedback) motors.	2090-CFBM7DF-CEAA*xx* 2090-CFBM7DF-CEAF*xx*
2090-K6CK-D15F	Low-profile connector kit for auxiliary feedback (15-pin, female, D-sub). Use with any Kinetix 6000 IAM/AM module or Kinetix 7000 drive auxiliary feedback application.	
2090-K6CK-D26M	Low-profile connector kit for I/O (26-pin, male, D-sub). For use with any Kinetix 6000 IAM/AM module, Kinetix 7000 drive, or 2094-AL09 and 2094-BL02 LIM module.	Customer supplied
2090-K6CK-D44M	Low-profile connector kit for I/O, safety, and auxiliary feedback (44-pin, male, D-sub). For use with any Kinetix 6200 or Kinetix 6500 control module.	
2090-K6CK-D44S0	Low-profile connector kit for I/O and cascading safe torque-off signals (44-pin, male, D-sub). For use with any Kinetix 6200 or Kinetix 6500 (safe torque-off, -S0 control module). Refer to Kinetix 6200 and Kinetix 6500 Safe-off Components on page 91 for example diagrams.	2090-CS0DSDS-AA*xx*

Dimensions – Low-profile Connector Kits

Catalog Number 2090-K2CK-D15M

3.6V battery (catalog number 2090-DA-BAT2) for use with only TLY-A*xxxx*-B motors (high-resolution 17-bit encoders).

2090-K2CK-D15M (motor feedback)
15-pin Feedback Connector

45
(1.7)

20
(0.8)

Dimensions are in mm (in.)

103
(4.0)

61
(2.4)

20
(0.8)