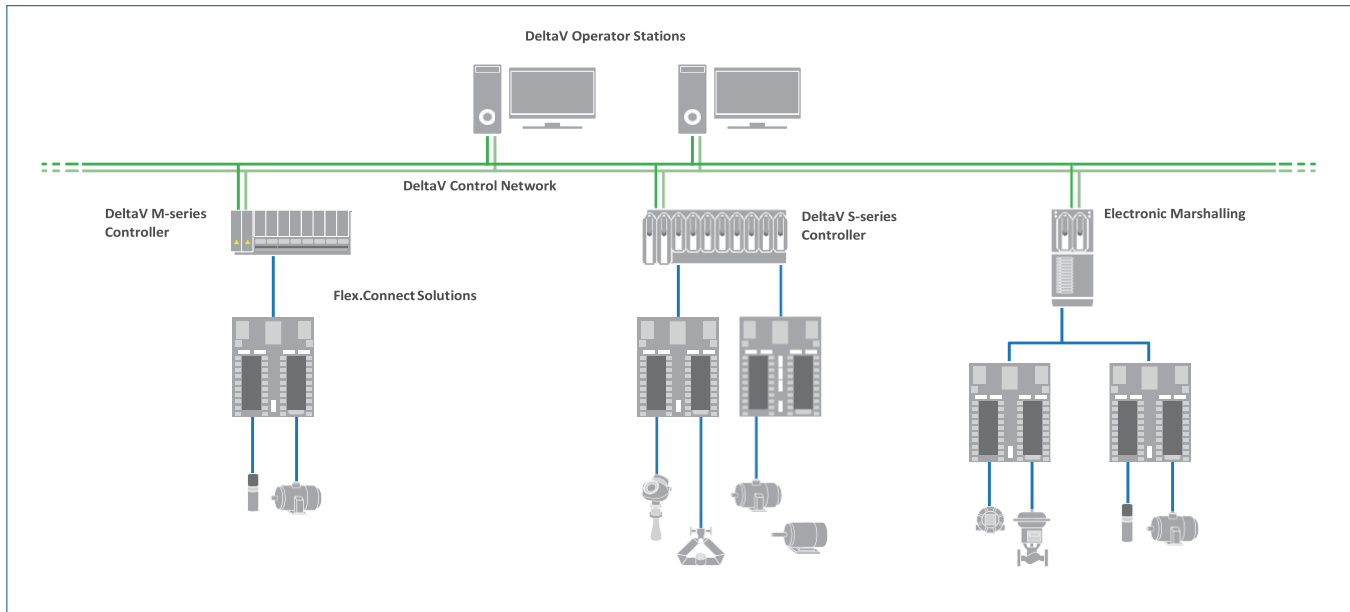


# DeltaV™ Flex.Connect Solutions for Bailey® INFI 90® I/O



DeltaV™ Flex.Connect Solutions protect your wiring investment as you convert from Bailey® INFI 90® to the DeltaV™ system.

- Reduce business risks by minimizing process downtime
- Save on installation costs
- Preserve HART® signals

## Introduction

If concerns about downtime and wiring costs are preventing you from migrating your Bailey® INFI 90® system to a new DeltaV™ system, consider DeltaV Flex.Connect solutions for Bailey Systems.

## Benefits

**Reduce business risks by minimizing process downtime.** This solution brings device signals to DeltaV I/O from existing Bailey I/O terminations. Keeping device wires intact accelerates new system startup, enabling you to rapidly resume production.

**Save installation costs.** Eliminating new device wiring saves money and reduces risk of errors. Time and materials savings are significant.

**Preserve HART signals.** Use HART® Pass-through for complete diagnostics at the DeltaV workstations.

## Product Description and Specification

DeltaV Flex.Connect solutions provide direct connection from Bailey INFI 90 I/O to DeltaV Electronic Marshalling (CHARMs) via flying-lead cables. Optionally, M and S-series traditional I/O can be utilized in these solutions.

The following Bailey INFI 90 field wiring types have DeltaV Flex.Connect solutions as described here:

### Analog Inputs

Up to 16 Bailey two-wire 4-20 mA Analog Inputs (AI) connect to single-channel 4-20 mA HART DeltaV AI CHARMs.

### Analog Outputs

Up to 16 Bailey 4-20 mA Analog Outputs (AO) connect to single-channel 4-20 mA HART DeltaV AO CHARMs.

### Discrete Inputs

Up to 16 Bailey 24 VDC Dry Contact Discrete Inputs (DI) connect to single-channel 24 VDC DeltaV DI Dry Contact CHARMs.

### Discrete Outputs

Up to 16 Bailey 24 VDC Discrete Outputs (DO) connect to single-channel 24 VDC HSS DeltaV DO CHARMs.

### Discrete Outputs - Relay

Up to 16 Bailey Discrete Outputs-Relay (DO-R) connect to single-channel 24 VDC HSS DeltaV DO CHARMs.

## Ordering Information

For inquiries and ordering information, please contact your local Emerson sales office. Please specify required cable lengths on your request. Maximum cable length is 30 meters. (Note: DeltaV Flex.Connect solution drawings are available upon request.)

### DeltaV Flex.Connect solutions organized by Bailey® Termination

Flex.Connect Solution #	Bailey Termination Panel Models	Bailey INFI 90 Series Signals	DeltaV I/O Types	Flex.Connect Solutions Drawing Numbers
FC-B1-CBL-3-10	NTAI01, NTAI05	15-Channel, 4-20 mA, AI, 2-wire	AI, 4-20 mA HART	FC-B1-AI15-1
FC-B1-CBL-4-11	NTAI06	16-Channel, 4-20 mA, AI, 2-wire	AI, 4-20 mA HART	FC-B1-AI16-2
FC-B1-CBL-4-40	NTAI06	16-Channel, RTD, AI	AI, RTD	FC-B1-RTD
FC-B1-CBL-4-41	NTAI03, NTAI04	16-Channel, RTD, AI	AI, RTD	FC-B1-RTD1
FC-B1-CBL-1-20	NTAO01	8-Channel, 4-20 mA, AO	AO, 4-20mA HART	FC-B1-AO8
FC-B1-CBL-2-21	NTDI01	14-Channel, 4-20 mA, AO	AO, 4-20mA HART	FC-B1-AO14
FC-B1-CBL-4-22	NTDI01	16-Channel, 4-20 mA, AO	AO, 4-20mA HART	FC-B1-AO16
FC-B1-CBL-4-50	NTDI01	16-Channel, 24 VDC, DI, Dry contact	DI, 24 VDC Dry	FC-B1-DI16
FC-B1-CBL-4-60	NTDI01	16-Channel, 24 VDC, DO	DO, 24 VDC HSS	FC-B1-DO16
FC-B1-CBL-4-61	6642016D2	16-Channel, DO-Relay	DO, 24 VDC HSS	FC-B1-DOR

## Ordering Information (Cont'd)

Manufactured cables are available in the following lengths; 1, 3, 5, 10, 15, and 30 meters. For analog I/O we recommend the twisted-pair versions. For discrete I/O we recommend non-twisted pair. These cables are 24 and 36-Pin pluggable on one end, straight through, open-end / flying lead on the other end, all open wires marked with the corresponding pin number and have ferrules on each wire, 24 AWG, shielded, and 16 inches of flying-lead to connect to the DeltaV I/O terminal blocks. Contact your local Emerson representative for pricing and availability.

## Prerequisites

A preliminary site visit is required in order to survey installed control system architecture and electrical grounding practices, to document I/O models and numbers of each, and to review schedule constraints and turnaround objectives. Qualified Emerson engineers or technicians perform site reviews.

## Services

For help in planning, justifying or implementing your system migration, contact your local Emerson representative. Expert consultants are available to advise you on a variety of concerns including safety system design, implementation and standards compliance; digital buses, wireless applications, control performance and process optimization.

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