

Alternate Configurations and Accessories

I Series

- Very Low Cost
- Power, Commutation and Encoder cable assemblies
- Power Cables available for I23, I34, IB23, IB34 Series
- Latching Connectors for Positive Retention
- Double Shielded for Maximum Noise Immunity
- Cable material is UL recognized
- NOT for Continuous Flex applications
- 10 ft and 25 ft lengths available
- "Make 'em Yourself" components also available



POWER	Application	Motor Fram Size	Catalog Number 10 ft	Catalog Number 25 ft	Notes	Pinout Chart
	"Generic" (flying leads)	2 inch	P2-10	P2-25	16 AWG, 3 conductor, 80 Deg.C, 300V, Foil & Braid Shielded, UL2464	1
		3 inch	P3-10	P3-25	14 AWG, 3 conductor, 80 Deg.C, 600V, Foil & Braid Shielded, UL2463	1

FEEDBACK	Application	Function (All Sizes)	Catalog Number 10 ft	Catalog Number 25 ft	Notes	Pinout Chart
	Generic (flying leads)	Hall Commutation	FH-10	FH-25	24 AWG, 5 conductor, 80 Deg.C, 300V, Foil & Braid Shield, UL2464	2
		Std. Encoder	FE-10	FE-25	24 AWG, 4 1/2 pair, 80 Deg.C, 300V, Foil & Braid Shield, UL2464	3
		Commutation Encoder	FC-10	FC-25	28 AWG, 7 1/2 pair, 105 Deg.C, 300V, Foil & Braid Shield, UL2103	4

COMPONENTS	Parts to "Make Your Own" Cables		
	Cat.Number	Description	Notes
	9700527	Mating Connector Kit for 2" Motor Power	Contains 4-Position Connector Body and Crimp Contacts (2 spare)
	9700528	Mating Connector Kit for 3" Motor Power	Contains 4-Position Connector Body and Crimp Contacts (2 spare)
	9700526	Mating Conn. Kit - Commutation (IB 23x, IB320, IB340 & IB460 sizes)	Contains 6-Position Connector Body and Crimp Contacts (2 spare)
	9700522	Mating Connector Kit for Std. Encoder (3-chan. w/ complements)	Contains 8-Pos.Conn.Body, Crimp Contacts (2 spare) and Latching adapter
	8100127	"Raw" cable for 2" Motor Power	16 AWG, 3 conductor, 80 Deg.C, 300V, Foil & Braid Shielded, UL2464
	8100128	"Raw" cable for 3" Motor Power	14 AWG, 3 conductor, 80 Deg.C, 600V, Foil & Braid Shielded, UL2463
	8100133	"Raw" Cable for Commutators	24 AWG, 5 conductor, 80 Deg.C, 300V, Foil & Braid Shield, UL2464
	8100134	"Raw" Cable for Std. Encoder (3-chan. w/ complements)	24 AWG, 4 1/2 pair, 80 Deg.C, 300V, Foil & Braid Shield, UL2464

Application Notes:

High Flex Applications - All cables listed above are not intended for continuous flexing or twisting (High Flex) applications. Cables are intended for stationary cable tray or fixed harness environments. AMETEK does not offer "High Flex" motor cables at this time.

Minimum Bending Radius - Excessive bending of cables can cause insulation or conductor failure. AMETEK specifies that the minimum bend radius of a fixed cable is no less than eight times (8X) the cable diameter.

Connection Information:

Pinout Chart #2 (FH Cable)		
FUNCTION	COLOR	PIN #
Vcc	Red	1
Gnd	Black	2
Comm A	Brown (1)	3
Comm B	Orange	4
Comm C	Yellow (2)	5
Cable Shield	Shield	6

Pinout Chart #3 (FE Cable)		
FUNCTION	COLOR	PIN #
Vcc (+5V)	Red	1
Common	Black	2
A	Brown	3
/A	White	4
B	Blue	5
/B	Green	6
Z	Orange	7
/Z	Yellow	8
Case Gnd	Wht/Blk	NC
Cable Shield	Bare	NC

Pinout Chart #1 (Px Cable)		
FUNCTION	COLOR	PIN #
Phase R	Red	1
Phase S	White	2
Phase T	Black	3
Case Gnd	Shield	4

Pinout Chart #4 (FC Cable)		
FUNCTION	COLOR	PIN #
Vcc (+5V)	Red	1
Output A	Brown	2
Output B	Blue	3
Output Z	Orange	4
Output U	Violet	5
Output V	White / Brown	6
Output W	White / Orange	7
Case Ground	Black / White	8
Common	Black	9
Output A'	White	10
Output B'	Green	11
Output Z'	Yellow	12
Output U'	Gray	13
Output V'	White / Red	14
Output W'	White / Yellow	15
Cable Shield	Drain Wire	16

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. Actual performance will vary depending on the operating environment and application. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For products designed to meet specific applications, contact PITTMAN Motor Sales Department.

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