



Motor Cables - Catalogue

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Motor Cables - Catalogue

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Contents

1	Introduction.....	1
1.1	About Motor Cable Catalogue	1
1.2	Trademarks.....	1
2	Product Overview.....	2
2.1	Cable Types	2
2.2	Catalogue Number Interpretation	3
3	Cable Selection Guide:	4
3.1	Alpha Motor Cable with AMD2000 Drive	4
3.1.1	Armature Cables.....	4
3.1.2	Encoder Cables	4
3.2	Gamma Motor Cable with AMD2000 Drive	5
3.2.1	Armature Cables.....	5
3.2.2	Encoder Cables	5
3.3	LinX® Motor Cable with AMD2000 Drive	6
3.3.1	Armature Cables.....	6
3.3.2	Encoder Cables	6
3.4	Gamma Motor Cable with AMD5x Drive.....	7
3.4.1	Armature Cables.....	7
3.4.2	HIPERFACE DSL® Cables	8
3.4.3	Encoder Cables	8
3.5	LinX® Motor Cable with AMD5x Drive	9
3.5.1	Armature Cables.....	9
3.5.2	Encoder Cables	9
4	Technical Specification.....	10
4.1	Alpha Motor Cable with AMD2000 Drive	10
4.2	Gamma Motor Cable with AMD2000 Drive	11
4.3	LinX® Motor Cable with AMD2000 Drive	12
4.4	Gamma Motor Cable with AMD5x Drive.....	13
4.5	LinX® Motor Cable with AMD5x Drive	14
5	Connector Details.....	15
5.1	Alpha Motor Cable with AMD2000 Drive	15
5.1.1	Alpha Motor Armature Cable with Plastic Connector	15
5.1.2	Alpha Motor Incremental ABZ Encoder Cable with Plastic Connector.....	16
5.1.3	Alpha Motor Armature Cable with Metal Connector.....	18
5.1.4	Alpha Motor Armature and Brake Cable with Metal Connector	19
5.1.5	Alpha motor Incremental ABZ Encoder Cable with Metal Connector	20
5.2	Gamma Motor Cable with AMD2000 Drive	22
5.2.1	Gamma Motor Armature Cable with Metal Connector	22
5.2.2	Gamma Motor with Analogue 1Vpp Encoder Cable with Metal Connector.....	23
5.2.3	Gamma motor with Incremental ABZ Encoder Cable with Metal Connector	25

5.3	LinX® Motor Cable with AMD2000 Drive	27
5.3.1	LinX® S-Series Armature Cable with Metal Connector	27
5.3.2	LinX® M-Series Armature Cable with Metal Connector	28
5.3.3	LinX® M-Series Analogue 1Vpp Encoder Cable with Metal Connector	29
5.3.4	LinX® M-Series Incremental ABZ Encoder Cable with Metal Connector	31
5.4	Gamma Motor Cable with AMD5x Drive	33
5.4.1	Gamm Motor Armature Cable with Metal M23 Connector	33
5.4.2	Gamma Motor Analogue 1Vpp Encoder Cable with Metal Connector	34
5.4.3	Gamma Motor Incremental ABZ Encoder Cable with Metal Connector	36
5.4.4	Gamma Motor Armature Cable with Metal M40 Connector	38
5.4.5	Gamma Motor HIPERFACE DSL® Cable with M23 Connector	39
5.5	LinX® Motor Cable with AMD5x Drive	40
5.5.1	LinX® S-Series Cable with Metal Connector	40
5.5.2	LinX® M-Series Armature Cable with Metal Connector	41
5.5.3	LinX® M-Series Analogue 1Vpp Encoder Cable with Metal Connector	42
6	Product, Sales, and Service Enquiries	44

1 Introduction

1.1 About Motor Cable Catalogue

The motor cable catalogue provides the required information about using and selecting cables with ANCA Motion's drive and motor unit. This catalogue is for the application engineers, trade persons and technical operators.

1.2 Trademarks

LinX® is a registered trademark of ANCA Motion Pty Ltd.

2 Product Overview

2.1 Cable Types

The motor cables are used to connect ANCA Motion's motors with ANCA Motion's drives, they can be used with both rotating motors as well as linear motors and for both the AMD2000 & AMD5x drives.

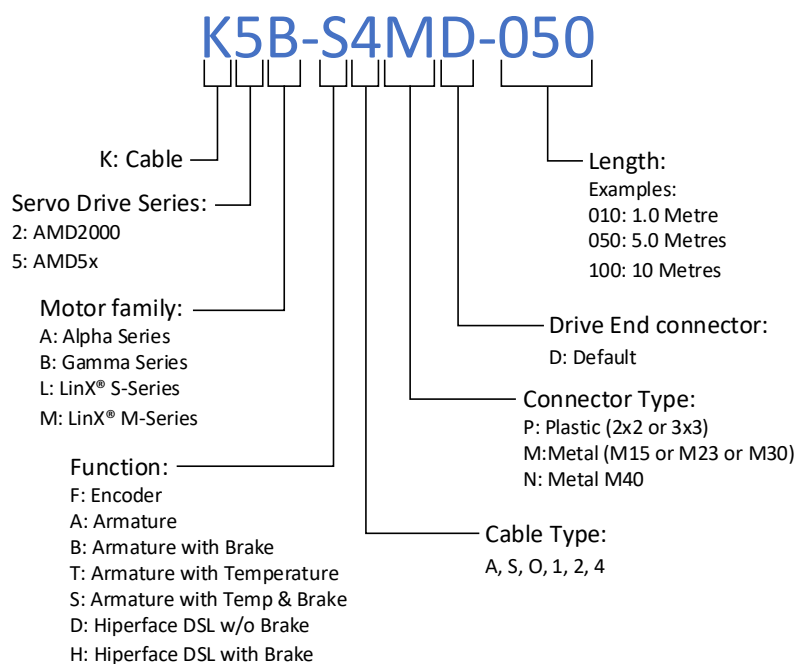
There are three main types of cables: Armature cable, Encoder cable and HIPERFACE DSL® cable. For further details about cables refer to [Table 2-1](#).

Cable type	Available motors	Available Drives	Cable selection
Armature Cable	Alpha motors	AMD2000	Section 3.1.1
	Gamma motors	AMD2000	Section 3.2.1
		AMD5x	Section 3.4.1
	LinX® motors	AMD2000	Section 3.3.1
		AMD5x	Section 3.5.1
Encoder Cable	Alpha Motors	AMD2000	Section 3.1.2
	Gamma Motors	AMD2000	Section 3.2.2
		AMD5x	Section 3.4.3
	LinX® M-Series motors	AMD2000	Section 3.3.2
		AMD5x	Section 3.5.2
HIPERFACE DSL® Cable	Gamma motors	AMD5x	Section 3.4.2

Table 2-1: Cable overview

2.2 Catalogue Number Interpretation

ANCA Motion cables can be Identified, selected, and ordered according to the catalogue numbers. The catalogue number is defined as shown in [Figure 2-1](#). All ANCA Motion cables are marked with an identification label according to their catalogue numbers.



Cable Function	Motor Family	Function	Connector Type	Cable Type	Description
Armature	Alpha Motor	A	P (2x2)	O	0.75mm ² cable
		A/B	M (M30)	S	1.5mm ² cable
	Gamma Motor	A/B/T/S	M (M23)	S	1.5mm ² cable
				2	2.5mm ² cable
			N (M40)	2	2.5mm ² cable
				4	4mm ² cable
	LinX® M-Series	T	M (M15)	1	1mm ² cable
	LinX® S-Series	T	M (M23)	S	1.5mm ² cable
Encoder	Alpha Motor	F	P (3x3)	S	Incremental ABZ cable
			M (M30)		Incremental ABZ cable
	Gamma Motor	F	M (M23)	S	Analogue 1Vpp cable
				A	Incremental ABZ cable
	LinX® M-Series	F	M (M15)	S	Analogue 1Vpp cable
				A	Incremental ABZ cable
HIPERFACE DSL®	Gamma Motor	D/H	M (M23)	S	1.5mm ² cable
				2	2.5mm ² cable

Figure 2-1 Catalogue Number Interpretation

Note:

1. All the cables are available with a minimum length of 1.0m and at an increment of 0.5m
2. For Armature cables, voltage rating can be different between AMD2000 and AMD5x drives

3 Cable Selection Guide:

Motor Cables can be selected based on the type of connection at the motor and the drive end. This section describes the range of cables available for a particular motor and drive combination.

3.1 Alpha Motor Cable with AMD2000 Drive

3.1.1 Armature Cables

Armature cables for Alpha motors with AMD2000 Drives can be selected from [Table 3-1](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
P (2x2)	K2A-AOPD-XXX	0.75mm ² Armature cable	Flying leads	Section 4.1	Section 5.1.1
M30	K2A-ASMD-XXX	1.5 mm ² Armature cable	Flying leads	Section 4.1	Section 5.1.3
M30	K2A-BSMD-XXX	1.5 mm ² Armature + Brake cable	Flying leads	Section 4.1	Section 5.1.4

Table 3-1: Armature cables for Alpha motors with AMD2000 drive

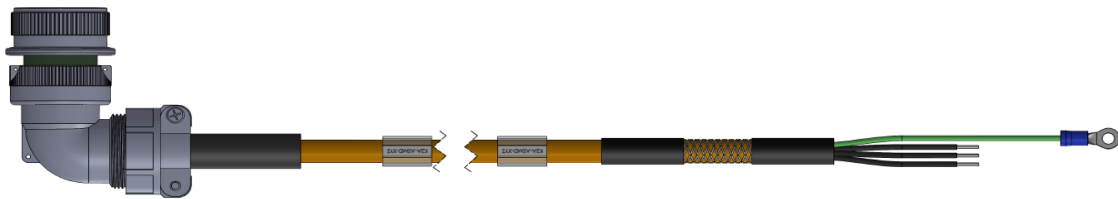


Figure 3-1: AMD2000-Alpha motor Armature cable with M30 connector



Figure 3-2: AMD2000-Alpha motor Armature cable with Plastic connector

3.1.2 Encoder Cables

Encoder cables for Alpha motors with AMD2000 Drives can be selected from [Table 3-2](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
P (3x3)	K2A-FSPD-XXX	Incremental ABZ Encoder cable	15Pin D-sub	Section 4.1	Section 5.1.2
M30	K2A-FSMD-XXX	Incremental ABZ Encoder cable	15Pin D-sub	Section 4.1	Section 5.1.5

Table 3-2: Encoder cables for Alpha motor with AMD2000 drive

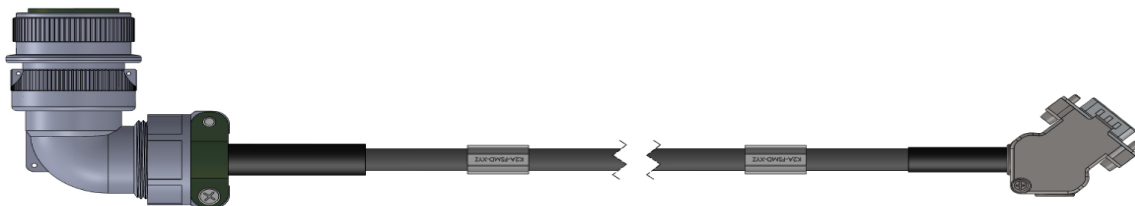


Figure 3-3: AMD2000-Alpha motor Encoder cable with Metal connector

3.2 Gamma Motor Cable with AMD2000 Drive

3.2.1 Armature Cables

Armature cables for Gamma motors with AMD2000 Drives can be selected from [Table 3-3](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
M23	K2B-ASMD-XXX	1.5 mm ² Armature cable	Flying Leads	Section 4.2	Section 5.2.1
M23	K2B-BSMD-XXX	1.5 mm ² Armature + Brake cable	Flying Leads	Section 4.2	Section 5.2.1
M23	K2B-TSMD-XXX	1.5 mm ² Armature + Temperature cable	Flying Leads	Section 4.2	Section 5.2.1
M23	K2B-SSMD-XXX	1.5mm ² Armature + Brake + Temperature cable	Flying Leads	Section 4.2	Section 5.2.1

Table 3-3: Armature cables for Gamma motor with AMD2000 Drive

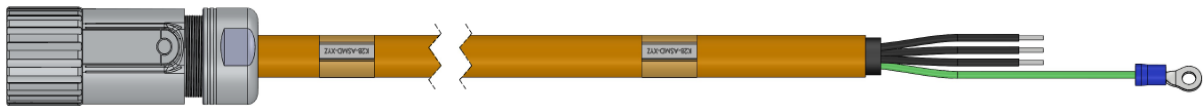


Figure 3-4: AMD2000-Gamma motor Armature cable

3.2.2 Encoder Cables

Encoder cables for Gamma motors with AMD2000 Drives can be selected from [Table 3-4](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
M23	K2B-FSMD-XXX	Analogue 1Vpp Encoder cable	15Pin D-sub	Section 4.2	Section 5.2.2
M23	K2B-FAMD-XXX	Incremental ABZ Encoder cable	15Pin D-sub	Section 4.2	Section 5.2.3

Table 3-4: Encoder cables for Gamma motor with AMD2000 Drive

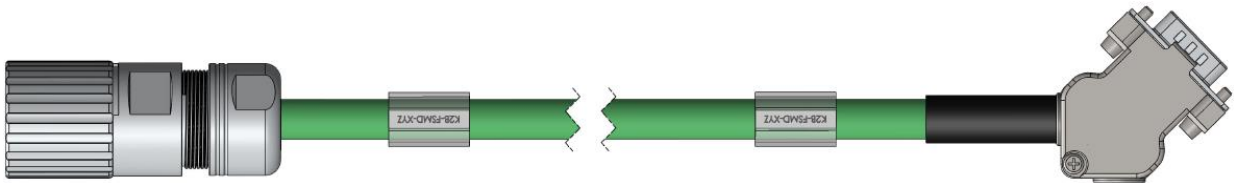


Figure 3-5: AMD2000-Gamma motor Sinusoidal Encoder cable

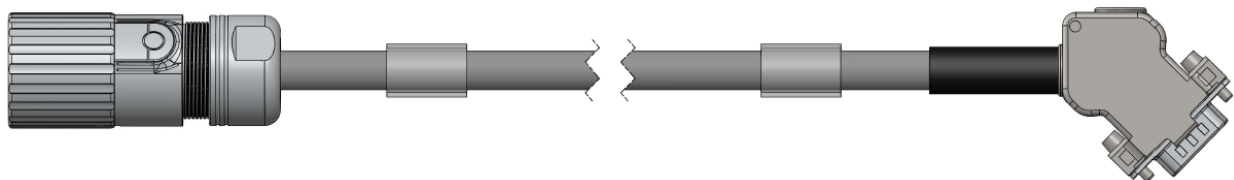


Figure 3-6: AMD2000-Gamma motor Incremental Encoder Cable

3.3 LinX[®] Motor Cable with AMD2000 Drive

3.3.1 Armature Cables

Armature cables for LinX[®] motors with AMD2000 Drives can be selected from [Table 3-5](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
M23	K2L-TSMD-XXX	LinX [®] S-Series 1.5 mm ² Armature cable	Flying Leads	Section 4.3	Section 5.3.1
M15	K2M-T1MD-XXX	LinX [®] M-Series 1 mm ² Armature cable	Flying Leads	Section 4.3	Section 5.3.2

Table 3-5: Armature cables for LinX[®] motors with AMD2000 drive



Figure 3-7: AMD2000-LinX[®] S-Series Armature cable



Figure 3-8: AMD2000-LinX[®] M-Series Armature cable

3.3.2 Encoder Cables

Encoder cables for LinX[®] motors with AMD2000 Drives can be selected from [Table 3-6](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
M15	K2M-FSMD-XXX	LinX [®] M-Series Analogue Encoder cable	15Pin D-sub	Section 4.3	Section 5.3.3
M15	K2M-FAMD-XXX	LinX [®] M-Series Incremental ABZ Encoder cable	15Pin D-sub	Section 4.3	Section 5.3.4

Table 3-6: Encoder cables for LinX[®] motors with AMD2000 drive

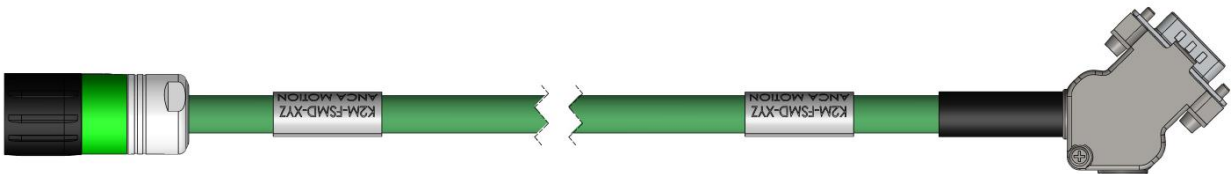


Figure 3-9: AMD2000-LinX[®] M-Series Analogue 1Vpp Encoder cable

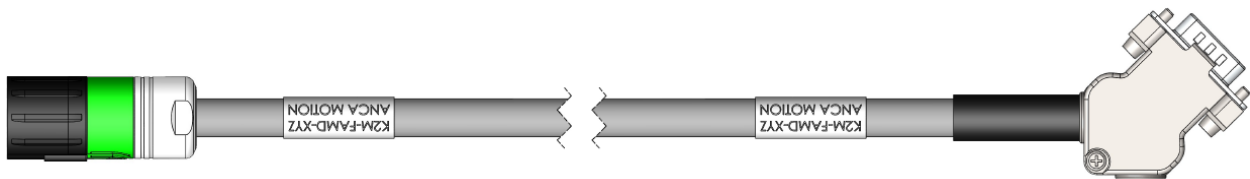


Figure 3-10: AMD2000-LinX[®] M-Series Incremental ABZ Encoder cable

3.4 Gamma Motor Cable with AMD5x Drive

3.4.1 Armature Cables

Armature cables of Gamma motors with AMD5x Drives can be selected from [Table 3-7](#).

Motor Connector	Cable Catalogue No.	Cable Type	Drive End	Cable Specification	Connector details
M23	K5B-ASMD-XXX	1.5 mm ² Armature cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-BSMD-XXX	1.5 mm ² Armature + Brake cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-TSMD-XXX	1.5 mm ² Armature + Temperature cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-SSMD-XXX	1.5 mm ² Armature + Brake + Temperature cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-A2MD-XXX	2.5 mm ² Armature cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-B2MD-XXX	2.5 mm ² Armature + Brake cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-T2MD-XXX	2.5 mm ² Armature + Temperature cable	Flying Leads	Section 4.4	Section 5.4.1
M23	K5B-S2MD-XXX	2.5 mm ² Armature + Brake + Temperature cable	Flying Leads	Section 4.4	Section 5.4.1
M40	K5B-A2ND-XXX	2.5 mm ² Armature cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-B2ND-XXX	2.5 mm ² Armature + Brake cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-T2ND-XXX	2.5 mm ² Armature + Temperature cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-S2ND-XXX	2.5 mm ² Armature + Brake + Temperature cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-A4ND-XXX	4 mm ² Armature cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-B4ND-XXX	4 mm ² Armature + Brake cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-T4ND-XXX	4 mm ² Armature + Temperature cable	Flying Leads	Section 4.4	Section 5.4.4
M40	K5B-S4ND-XXX	4 mm ² Armature + Brake + Temperature cable	Flying Leads	Section 4.4	Section 5.4.4

Table 3-7: Armature cables for Gamma motor with AMD5x drive



Figure 3-11: AMD5x-Gamma motor Armature cable

3.4.2 HIPERFACE DSL® Cables

HIPERFACE DSL® cables for Gamma motors with AMD5x Drives can be selected from [Table 3-8](#).

Motor Connector	Cable Catalogue No.	Cable Type	Drive End	Cable Specification	Connector details
M23	K5B-DSMD-XXX	1.5 mm ² HIPERFACE DSL [®] cable	Flying Leads	Section 4.4	Section 5.4.5
M23	K5B-HSMD-XXX	1.5 mm ² HIPERFACE DSL [®] + Brake cable	Flying Leads	Section 4.4	Section 5.4.5
M23	K5B-D2MD-XXX	2.5 mm ² HIPERFACE DSL [®] cable	Flying Leads	Section 4.4	Section 5.4.5
M23	K5B-H2MD-XXX	2.5 mm ² HIPERFACE DSL [®] + Brake cable	Flying Leads	Section 4.4	Section 5.4.5

Table 3-8: HIPERFACE DSL® cables for Gamma motors with AMD5x drive

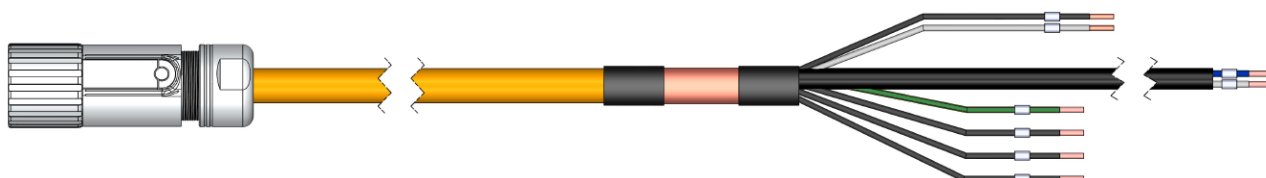


Figure 3-12: AMD5x-Gamma motor HIPERFACE DSL® cable

3.4.3 Encoder Cables

Encoder cables for Gamma motors with AMD5x Drives can be selected from [Table 3-9](#).

Motor Connector	Cable Catalogue No.	Cable Type	Drive End	Cable Specification	Connector details
M23	K5B-FSMD-XXX	Analogue 1Vpp Encoder cable	15Pin D-sub	Section 4.4	Section 5.4.2
M23	K5B-FAMD-XXX	Incremental ABZ Encoder cable	9Pin D-sub	Section 4.4	Section 5.4.3

Table 3-9: Encoder cable for Gamma motor with AMD5x drive

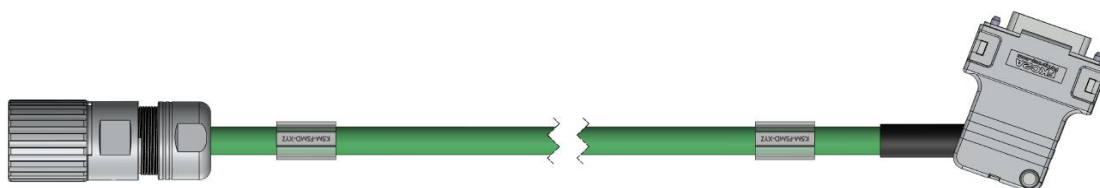


Figure 3-13: AMD5x-Gamma motor Analogue 1Vpp Encoder cable

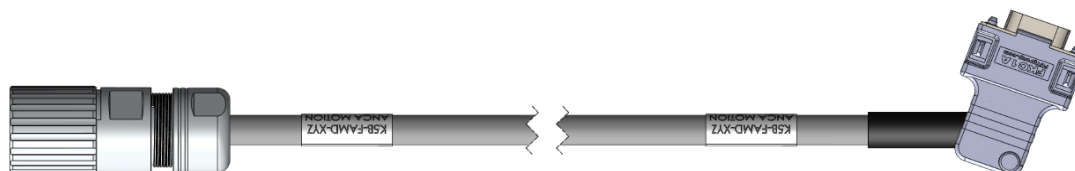


Figure 3-14: AMD5x-Gamma motor Incremental ABZ Encoder cable

3.5 LinX® Motor Cable with AMD5x Drive

3.5.1 Armature Cables

Armature cables for LinX® motors with AMD5x Drives can be selected from [Table 3-10](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
M23	K5L-TSMD-XXX	LinX® S-Series 1.5 mm ² Armature cable	Flying Leads	Section 4.5	Section 5.5.1
M15	K5M-T1MD-XXX	LinX® M-Series 1 mm ² Armature cable	Flying Leads	Section 4.5	Section 5.5.2

Table 3-10: Armature cables for LinX® motors with AMD5x drive



Figure 3-15: AMD5x-LinX® S-Series Armature cable



Figure 3-16: AMD5x-LinX® M-Series Armature cable

3.5.2 Encoder Cables

Encoder cables of LinX® motors with AMD5x Drives can be selected from [Table 3-11](#).

Motor Connector	Cable Catalogue No.	Description	Drive End	Cable Specification	Connector details
M15	K5M-FSMD-XXX	LinX® M-Series Analogue 1Vpp Encoder cable	15Pin D-sub	Section 4.5	Section 5.5.3

Table 3-11: Encoder cable for LinX® motors with AMD5x drive

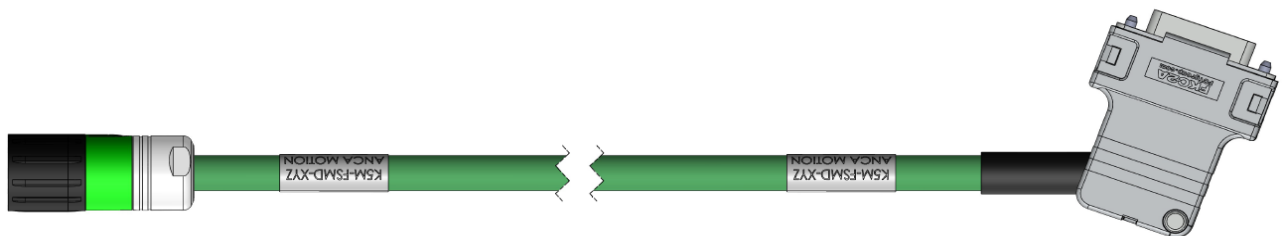


Figure 3-17: AMD5x LinX® M-Series Analogue 1Vpp Encoder cable

4 Technical Specification

4.1 Alpha Motor Cable with AMD2000 Drive

Technical properties for Alpha motor cables with AMD2000 drive can be viewed from [Table 4-1](#) and [Table 4-2](#). To select appropriate cable, refer to [Section 3.1](#).

Cable Type	Conductor Description	OD	Mass (kg/m)	Min Bending Radius Static (mm)	Min. Bending Radius Flexible (mm)	Max. Length (m)
K2A-AOXX-XXX	[(3+E)x0.75] S	8.4	0.119	33.6	63	15
K2A-ASXX-XXX	[(3+E)x1.5] S	8.7	0.140	65.3	65.3	15
K2A-BSXX-XXX	[(3+E)x1.5 + (2x1.5)S] S	11.6	0.261	46.4	87	15
K2A-FSXX-XXX	[4x(2x0.25)] S	7.4	0.085	29.6	55.5	15

Table 4-1: Technical properties of Alpha motor cables with AMD2000 drive

Cable Type	Min. Number of Bend cycles (10 ⁶)	Voltage Rating (V) (AC/DC)	Max Speed Drag chain (m/s)	Max accel Drag chain (m/s/s)	Operating temp. static (°C)	Operating temp Drag chain (°C)	Color
K2A-AOXX-XXX	10	300/500	5	20	-40 to 80	0 to 70	Grey
K2A-ASXX-XXX	8	1000	5	50	-40 to 80	-40 to 80	Orange
K2A-BSXX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K2A-FSXX-XXX	10	49/74	5	50	-40 to 80	-40 to 80	Grey

Table 4-2: Additional technical properties of Alpha motor cables with AMD2000 drive

Notes:

1. All Cables are suitable to be used with drag chain, have Polyurethane jacket and are oil resistant.
2. To select cables for Alpha motors with AMD2000 drive refer [Section 3.1](#)

4.2 Gamma Motor Cable with AMD2000 Drive

Technical properties for Gamma motor cables with AMD2000 drive can be viewed from [Table 4-3](#) and [Table 4-4](#). To select appropriate cable, refer to [Section 3.2](#)

Cable Type	Conductor Description	OD	Mass (kg/m)	Min Bending Radius Static (mm)	Min. Bending Radius Flexible (mm)	Max. Length (m)
K2B-AOXX-XXX	[(3+E)x0.75] S	8.4	0.111	33.6	63	15
K2B-ASXX-XXX	[(3+E)x1.5] S	8.7	0.140	65.3	65.3	15
K2B-BSXX-XXX	[(3+E)x1.5 + (2x1.0)S] S	11.2	0.261	44.8	84	15
K2B-TSXX-XXX	[(3+E)x1.5 + (2x0.75)S] S	11.4	0.261	45.6	85.5	15
K2B-SSXX-XXX	[(3+E)x1.5 + 2x(2x0.75)S] S	12.2	0.313	48.8	91.5	30
K2B-FSXX-XXX	[3x(2x0.14)S + 4x0.14 + 2x0.5] S	8.8	0.110	35.2	66	15
K2B-FAXX-XXX	[4x(2x0.34)] S	8.4	0.119	33.6	63	15

Table 4-3: Technical property for Gamma motor cable with AMD2000 drive

Cable Type	Min. Number of Bend cycles (10 ⁶)	Voltage Rating (V) (AC/DC)	Max Speed Drag chain (m/s)	Max accel Drag chain (m/s/s)	Operating temp. static (°C)	Operating temp Drag chain (°C)	Color
K2B-AOXX-XXX	5	300/500	5	50	-40 to 80	0 to 70	Grey
K2B-ASXX-XXX	8	1000	5	50	-40 to 90	-40 to 90	Orange
K2B-BSXX-XXX	8	600/1000	5	50	-40 to 80	-40 to 80	Orange
K2B-TSXX-XXX	8	600/1000	5	50	-50 to 90	-40 to 70	Orange
K2B-SSXX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K2B-FSXX-XXX	10	30/30	5	50	-50 to 80	-20 to 60	Green
K2B-FAXX-XXX	10	49/74	3	50	-40 to 80	-40 to 80	Grey

Table 4-4: Additional technical property of Gamma motor cable with AMD2000 drive

Note:

1. All Cables are suitable to be used with drag chain, have Polyurethane jacket and are oil resistant.
2. To select cables for Gamma motors with AMD2000 drive refer [Section 3.2](#)

4.3 LinX[®] Motor Cable with AMD2000 Drive

The technical properties of LinX[®] motors cables with AMD2000 drive can be viewed from [Table 4-5](#) and [Table 4-6](#).

To select appropriate cable, refer to [Section 3.3](#).

Cable Type	Conductor Description	OD	Mass (kg/m)	Min Bending Radius Static (mm)	Min. Bending Radius Flexible (mm)	Max. Length (m)
K2L-TSMD-XXX	$[(3+E) \times 1.5 + (2 \times 0.75)S] S$	11.4	0.261	45.6	85.5	15
K2M-T1MD-XXX	$[(3+E) \times 1.0 + (2 \times 0.5)S] S$	10	0.151	75	100	15
K2M-FSMD-XXX	$[3 \times (2 \times 0.14)S + 2 \times (0.5)] S$	8.9	0.12	35.6	66.75	15
K2M-FAMD-XXX	$[4 \times (2 \times 0.34)] S$	8.4	0.119	33.6	63	15

Table 4-5: Technical property of LinX[®] cables with AMD2000 drive

Cable Type	Min. Number of Bend cycles (10 ⁶)	Voltage Rating (V) (AC/DC)	Max Speed Drag chain (m/s)	Max accel Drag chain (m/s/s)	Operating temp. static (°C)	Operating temp Drag chain (°C)	Color
K2L-TSMD-XXX	8	600/1000	5	50	-50 to 90	-40 to 70	Orange
K2M-T1MD-XXX	5	600	5	50	-40 to 80	-5 to 70	Orange
K2M-FSMD-XXX	10	30/30	5	50	-50 to 80	-40 to 80	Green
K2M-FAMD-XXX	10	49/74	3	50	-40 to 80	-40 to 80	Grey

Table 4-6: Additional technical property of LinX[®] cables with AMD2000 drive

Note:

1. All Cables are suitable to be used with drag chain, have Polyurethane jacket and are oil resistant.
2. To select cables for LinX[®] motors with AMD2000 drive refer [Section 3.3](#)

4.4 Gamma Motor Cable with AMD5x Drive

The technical properties of Gamma motor cables with AMD5x drive can be viewed from [Table 4-7](#) and [Table 4-8](#). To select appropriate cable, refer to [Section 3.4](#).

Cable Type	Conductor Description	OD	Mass (kg/m)	Min Bending Radius Static (mm)	Min. Bending Radius Flexible (mm)	Max. Length (m)
K5B-ASXX-XXX	$[(3+E) \times 1.5] S$	8.7	0.140	65.3	65.3	30
K5B-BSXX-XXX	$[(3+E) \times 1.5 + (2 \times 1.0)S] S$	11.2	0.261	44.8	84	30
K5B-TSXX-XXX	$[(3+E) \times 1.5 + (2 \times 1.0)S] S$	11.2	0.261	44.8	84	30
K5B-SSXX-XXX	$[(3+E) \times 1.5 + 2 \times (2 \times 0.75)S] S$	12.2	0.313	48.8	91.5	30
K5B-A2XX-XXX	$[(3+E) \times 2.5] S$	10.6	0.197	44.2	79.5	30
K5B-B2XX-XXX	$[(3+E) \times 2.5 + (2 \times 1.5)S] S$	13.4	0.318	53.6	100.5	30
K5B-T2XX-XXX	$[(3+E) \times 2.5 + (2 \times 1.5)S] S$	13.4	0.318	53.6	100.5	30
K5B-S2XX-XXX	$[(3+E) \times 2.5 + 2 \times (2 \times 1.0)S] S$	14.6	0.395	58.4	109.5	30
K5B-A4XX-XXX	$[(3+E) \times 4.0] S$	11.9	0.268	47.6	89.25	30
K5B-B4XX-XXX	$[(3+E) \times 4.0 + (2 \times 1.5)S] S$	14.8	0.385	59.2	111	30
K5B-T4XX-XXX	$[(3+E) \times 4.0 + (2 \times 1.5)S] S$	14.8	0.385	59.2	111	30
K5B-S4XX-XXX	$[(3+E) \times 4.0 + 2 \times (2 \times 1.0)S] S$	16.1	0.466	64.4	120.75	30
K5B-FSXX-XXX	$[3 \times (2 \times 0.14)S + 4 \times 0.14 + 2 \times 0.5] S$	8.4	0.110	35.2	66	30
K5B-FAXX-XXX	$[4 \times (2 \times 0.34)] S$	8.8	0.119	33.6	63	30
K5B-DSXX-XXX	$[(3+E) \times 1.5 + (2 \times 22AWG)S] S$	11.2	0.198	56	84	30
K5B-HSXX-XXX	$[(3+E) \times 1.5 + (2 \times 1.0)S + (2 \times 22AWG)S] S$	13.2	0.195	66	99	20
K5B-D2XX-XXX	$[(3+E) \times 2.5 + (2 \times 22AWG)S] S$	12.6	0.269	63	94.5	30
K5B-H2XX-XXX	$[(3+E) \times 2.5 + (2 \times 1.0)S + (2 \times 22AWG)S] S$	14	0.313	70	105	30

Table 4-7: Technical property of Gamma motor cable with AMD5x drive

Cable Type	Min. Number of Bend cycles (10^6)	Voltage Rating (V) (AC/DC)	Max Speed Drag chain (m/s)	Max accel Drag chain (m/s/s)	Operating temp. static (°C)	Operating temp Drag chain (°C)	Color
K5B-ASXX-XXX	8	1000	5	50	-40 to 90	-40 to 90	Orange
K5B-BSXX-XXX	8	600/1000	5	50	-40 to 80	-40 to 80	Orange
K5B-TSXX-XXX	8	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-SSXX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-A2XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-B2XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-T2XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-S2XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-A4XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-B4XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-T4XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-S4XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-FSXX-XXX	10	30/30	5	50	-50 to 80	-20 to 60	Green
K5B-FAXX-XXX	10	49/74	5	50	-40 to 80	-40 to 80	Grey
K5B-DSXX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-HSXX-XXX	10	600/1000	5	50	-40 to 80	-40 to 80	Orange
K5B-D2XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange
K5B-H2XX-XXX	10	600/1000	5	50	-50 to 80	-40 to 80	Orange

Table 4-8: Additional technical properties of Gamma motor cable with AMD5x drive

Note:

1. All Cables are suitable to be used with drag chain, have Polyurethane jacket and are oil resistant.
2. To select cables for Gamma motors with AMD5x drive refer [Section 3.4](#)

4.5 LinX[®] Motor Cable with AMD5x Drive

The technical properties of LinX[®] motor cables with AMD5x drive can be viewed from [Table 4-9](#) and [Table 4-10](#). To select appropriate cable, refer to [Section 3.5](#).

Cable Type	Conductor Description	OD	Mass (kg/m)	Min Bending Radius Static (mm)	Min. Bending Radius Flexible (mm)	Max. Length (m)
K5L-TSMD-XXX	$[(3+E) \times 1.5 + (2 \times 0.75)S] S$	11.4	0.261	45.6	85.5	100
K5M-T1MD-XXX	$[(3+E) \times 1.0 + (2 \times 0.5)S] S$	10	0.151	75	100	100
K5M-FSMD-XXX	$[3 \times (2 \times 0.14)S + 2 \times 0.5] S$	8.9	0.12	35.6	66.75	100

Table 4-9: Physical property of LinX[®] cables with AMD5x drive

Cable Type	Min. Number of Bend cycles (10 ⁶)	Voltage Rating (V) (AC/DC)	Max Speed Drag chain (m/s)	Max accel Drag chain (m/s/s)	Operating temp. static (°C)	Operating temp Drag chain (°C)	Color
K5L-TSMD-XXX	8	600/1000	5	50	-50 to 90	-40 to 70	Orange
K5M-T1MD-XXX	5	600	5	50	-40 to 80	-5 to 70	Orange
K5M-FSMD-XXX	10	30/30	5	50	-50 to 80	-40 to 80	Green

Table 4-10: Technical property of LinX[®] cables with AMD5x drive

Note:

1. All Cables are suitable to be used with drag chain, have Polyurethane jacket and are oil resistant.
2. To select cables for LinX[®] motors with AMD5x drive refer [Section 3.5](#)

5 Connector Details

5.1 Alpha Motor Cable with AMD2000 Drive

5.1.1 Alpha Motor Armature Cable with Plastic Connector

Applicable for: K2A-AOPD-XXX

Motor End:

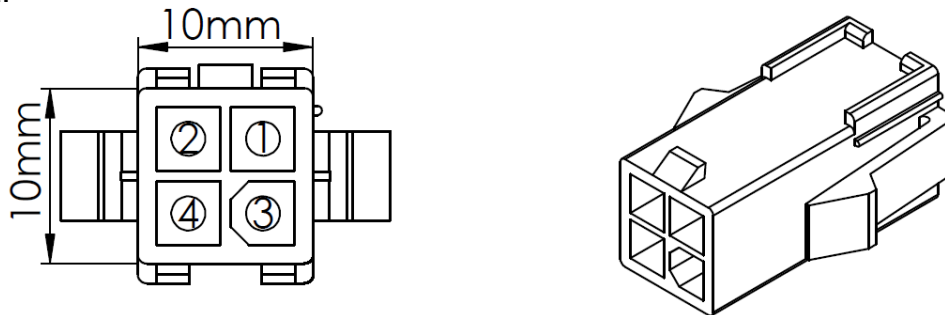


Figure 5-1: Female plastic 2x2 connectors

Pin No.	Designation	Function	Color
1	U	Power	Black
2	V	Power	Black
3	W	Power	Black
4	$\bar{G}$	Earthing	Green/Yellow

Drive end:

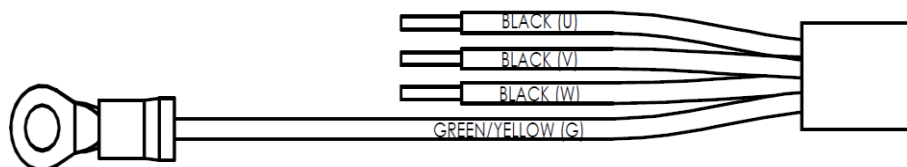


Figure 5-2: Flying Leads

Note: To select cables for Alpha motors with AMD2000 drive refer [Section 3.1](#)

5.1.2 Alpha Motor Incremental ABZ Encoder Cable with Plastic Connector

Applicable for: K2A-FSPD-XXX

Motor End:

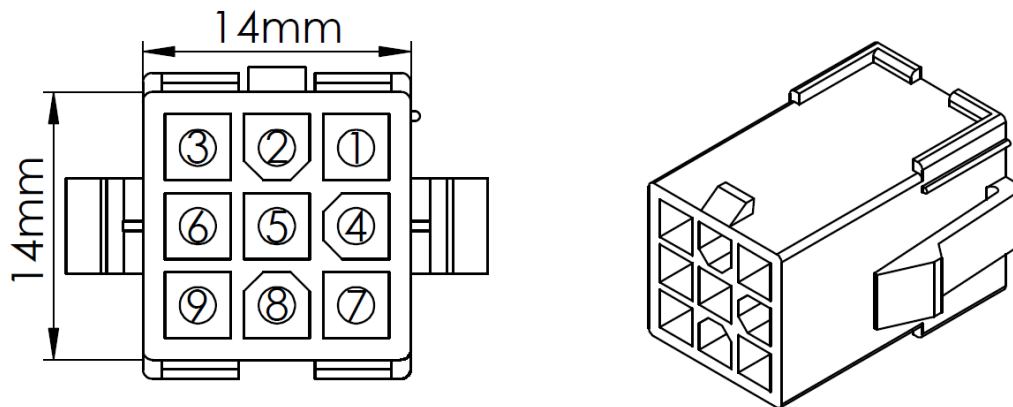


Figure 5-3: Female plastic 3x3 Connectors

Pin No.	Designation	Function	Color
1	5 Vdc	+5V supply	Yellow
2	GND	0V Ground	Green
3	B+	90° Signal+	Brown
4	B-	90° Signal-	White
5	A+	0° Signal+	Blue
6	A-	0° Signal-	Red
7	Z+	Ref signal+	Pink
8	Z-	Ref signal-	Grey
9	Outer Shield	Shield	-

Drive End:

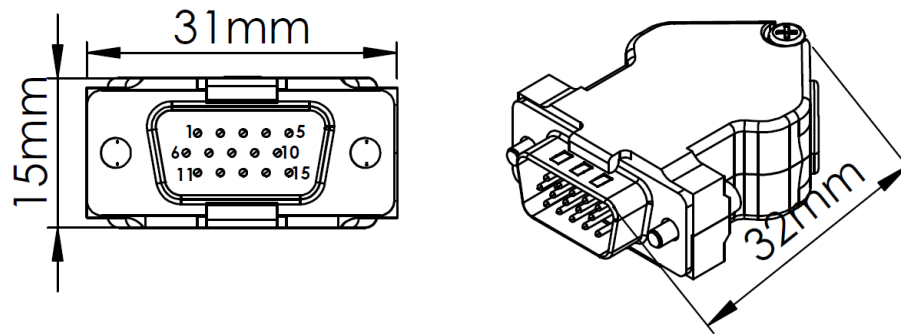


Figure 5-4: 15 pin D-sub male Connectors

Pin No.	Designation	Function	Color
1	-	Not Connected	-
2	-	Not Connected	-
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	A+	0° Signal+	Blue
8	A-	0° Signal-	Red
9	B+	90° Signal+	Brown
10	B-	90° Signal-	White
11	Z+	Ref Signal+	Pink
12	Z-	Ref Signal-	Grey
13	-	Not Connected	-
14	5 Vdc	+5V Supply	Yellow
15	GND	0V Ground	Green
Backshell	Outer Shield	Shield	-

Note: To select cables for Alpha motors with AMD2000 drive refer [Section 3.1](#)

5.1.3 Alpha Motor Armature Cable with Metal Connector

Applicable for: K2A-ASMD-XXX

Motor End:

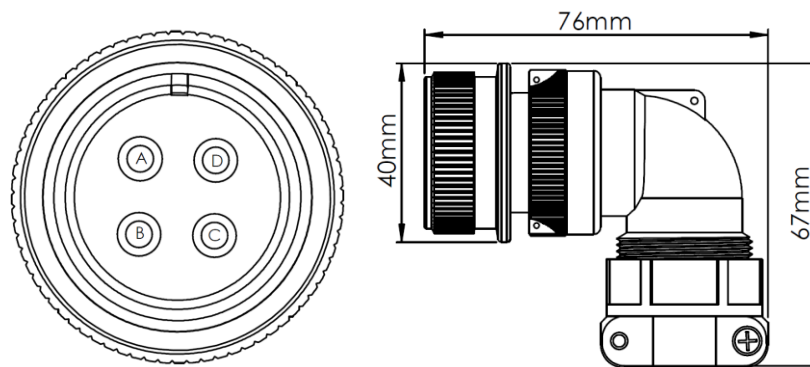


Figure 5-5: Metal Female Connector

Pin No.	Designation	Function	Color
A	U	Power	Black
B	V	Power	Black
C	W	Power	Black
D	$\bar{G}$	Ground	Green/Yellow

Drive end:

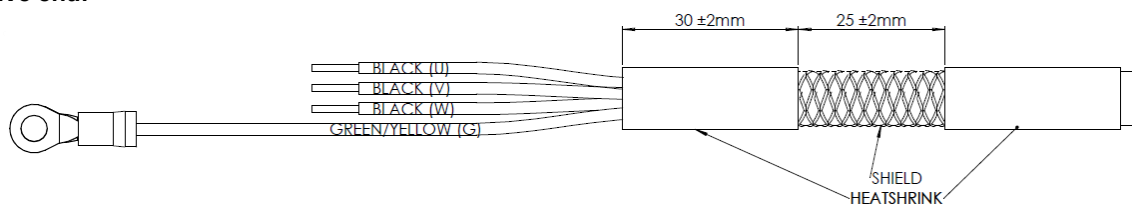


Figure 5-6: Flying Leads

Note: To select cables for Alpha motors with AMD2000 drive refer [Section 3.1](#)

5.1.4 Alpha Motor Armature and Brake Cable with Metal Connector

Applicable for: K2A-BSMD-XXX

Motor End:

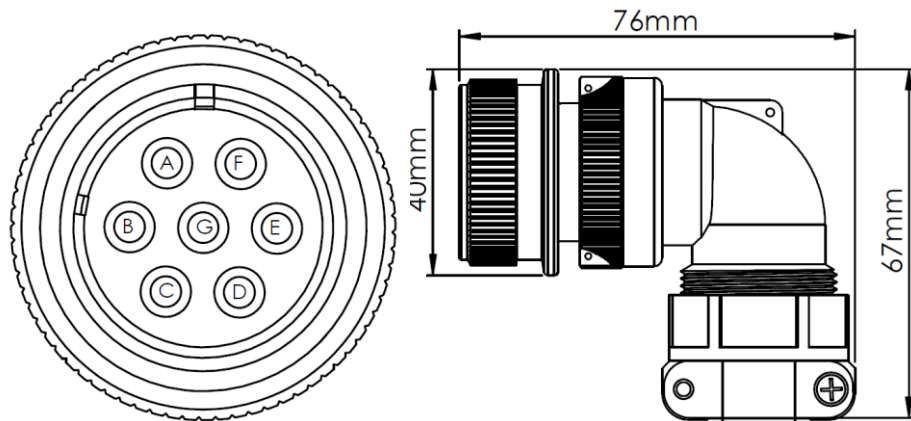


Figure 5-7: Metal Female Connector

Drive End:

Pin No.	Designation	Function	Color
A	B+	Brake +	Black
B	U	Power	Black
C	G	Ground	Green/Yellow
D	-	Not Connected	-
E	V	Power	Black
F	B-	Brake -	Black
G	W	Power	Black
Backshell	Outer Shield	Shield	-

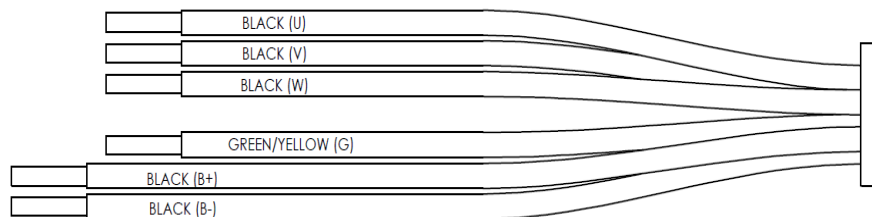


Figure 5-8: Flying Leads

Note: To select cables for Alpha motors with AMD2000 drive refer [Section 3.1](#)

5.1.5 Alpha motor Incremental ABZ Encoder Cable with Metal Connector

Applicable for: K2A-FSMD-XXX

Motor End:

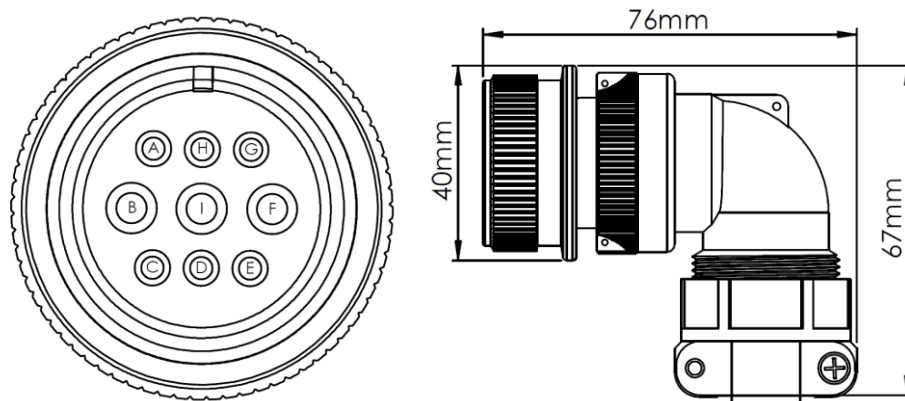


Figure 5-9: Metal Female Connectors

Pin No.	Designation	Function	Color
A	B+	90° Signal+	Grey
B	5 Vdc	+5V Supply	White
C	B-	90° Signal-	Pink
D	A-	0° Signal-	Yellow
E	Z-	Ref Signal-	Blue
F	Outer Shield	Shield	N.A.
G	Z+	Ref Signal+	Red
H	A+	0° Signal+	Green
I	GND	0V Ground	Brown

Drive End:

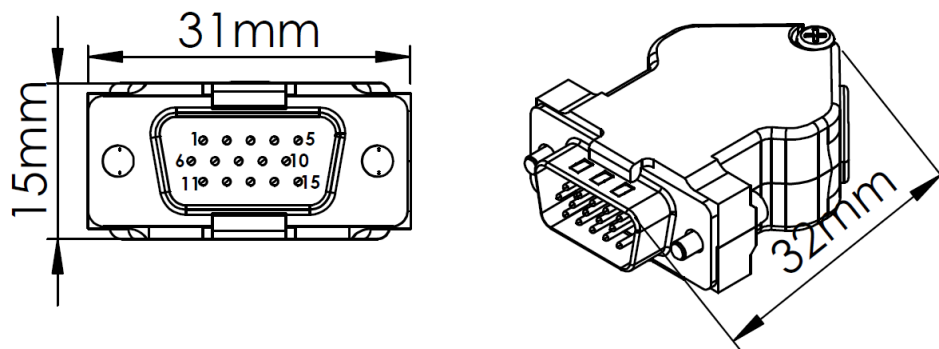


Figure 5-10: 15Pin D-sub male Connectors

Pin No.	Designation	Function	Color
1	-	Not Connected	-
2	-	Not Connected	-
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	A+	0° Signal+	Green
8	A-	0° Signal-	Yellow
9	B+	90° Signal+	Grey
10	B-	90° Signal-	Pink
11	Z+	Ref Signal+	Red
12	Z-	Ref Signal-	Blue
13	-	Not Connected	-
14	5 Vdc	+5V Supply	White
15	GND	0V Ground	Brown
Backshell	Outer Shield	Shield	-

Note: To select cables for Alpha motors with AMD2000 drive refer [Section 3.1](#)

5.2 Gamma Motor Cable with AMD2000 Drive

5.2.1 Gamma Motor Armature Cable with Metal Connector

Applicable for: K2B-AXMD-XXX, K2B-BXMD-XXX, K2B-TXMD-XXX, K2B-SXMD-XXX

Motor End:

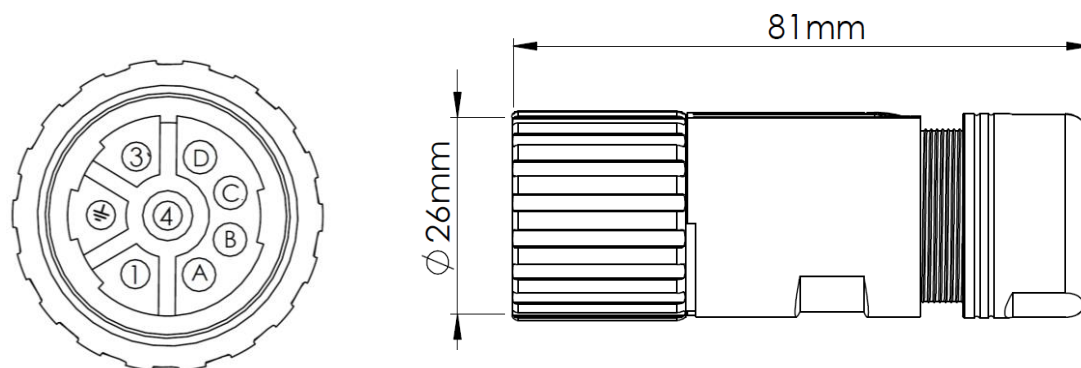


Figure 5-11: M23 Female connector

Pin No.	Designation	Function	Color
1	U	Power	Black
	Ġ	Ground	Green/Yellow
3	W	Power	Black
4	V	Power	Black
A	T+	Temperature Sensor+	Black
B	T-	Temperature Sensor-	White
C	B+	Brake+	Black
D	B-	Brake-	White
Backshell	Outer Shield	Shield	-

Drive End:

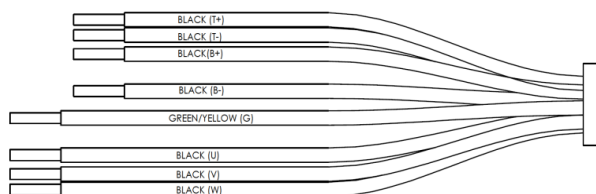


Figure 5-12: Flying Leads

Note: To select cables for Gamma motors with AMD2000 drive refer [Section 3.2](#)

5.2.2 Gamma Motor with Analogue 1Vpp Encoder Cable with Metal Connector

Applicable for: K2B-FSMD-XXX

Motor End:

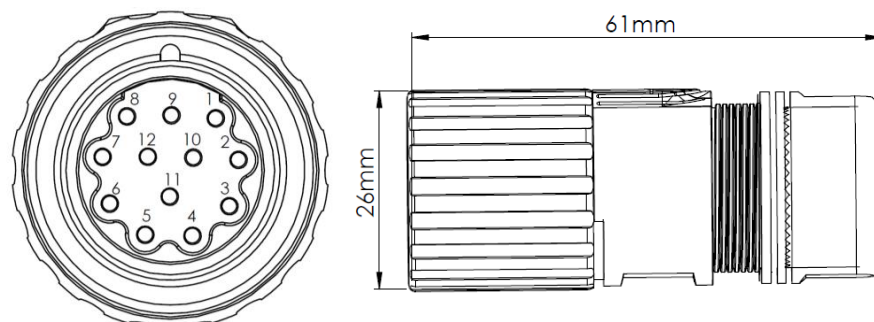
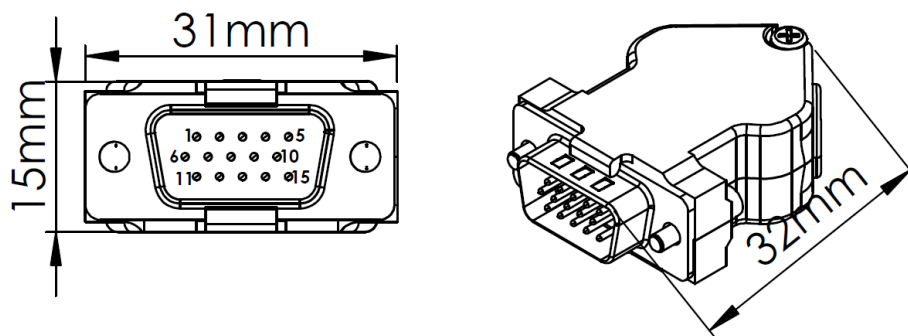


Figure 5-13: M23 Female Connector

Pin No.	Designation	Function	Color
1	COS-	Cos Signal+	Brown
2	-	Not Connected	-
3	REF+	Ref Signal+	Red
4	REF-	Ref Signal-	Orange
5	SIN+	Sin Signal+	Yellow
6	SIN-	Sin Signal-	Green
7	-	Not Connected	-
8	COS+	Cos Signal+	Black
9	-	Not Connected	-
10	GND	0V Ground	Brown/Blue
11	-	-	Not Connected
12	5 Vdc	5V Supply	Brown/Red
Backshell	Outer Shield	Shield	-

Drive End:**Figure 5-14: 15 Pin D-sub male connector**

Pin No.	Designation	Function	Color
1	SIN-	Sin Signal-	Green
2	SIN+	Sin Signal+	Yellow
3	COS-	Cos Signal-	Brown
4	COS+	Cos Signal+	Black
5	REF-	Ref Signal-	Orange
6	REF+	Ref Signal+	Red
7	-	Not Connected	-
8	-	Not Connected	-
9	-	Not Connected	-
10	-	Not Connected	-
11	-	Not Connected	-
12	-	Not Connected	-
13	-	Not Connected	-
14	5 Vdc	+5V Supply	Brown/Red
15	GND & Inner Shield	0V Ground	Brown/Blue
Backshell	Outer Shield	Shield	N.A.

Note: To select cables for Gamma motors with AMD2000 drive refer [Section 3.2](#)

5.2.3 Gamma motor with Incremental ABZ Encoder Cable with Metal Connector

Applicable for: K2B-FAMD-XXX

Motor End:

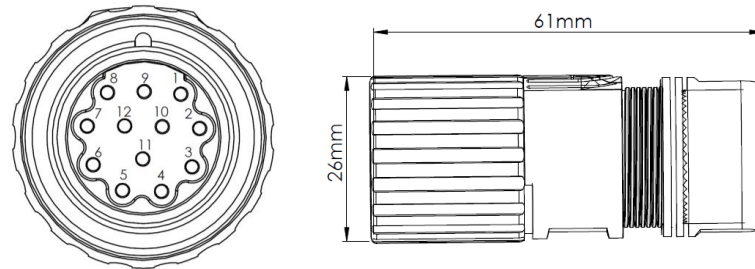


Figure 5-15: M23 Female Connector

Pin No.	Designation	Function	Color
1	B-	90° Signal-	White
2	-	Not Connected	-
3	Z+	Ref Signal+	Pink
4	Z-	Ref Signal-	Grey
5	A+	0° Signal+	Blue
6	A-	0° Signal-	Red
7	-	Not Connected	-
8	B+	90° Signal+	Brown
9	-	Not Connected	-
10	GND	0V Ground	Green
11	-	Not Connected	-
12	5 Vdc	+5V Supply	Yellow
Backshell	Outer Shield	Shield	

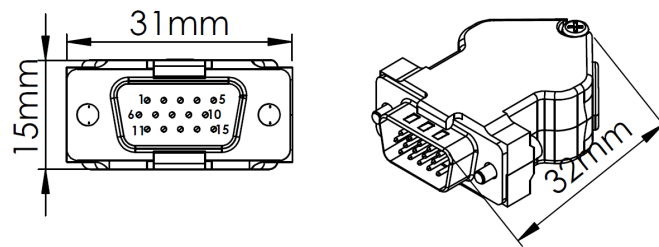
Drive End:

Figure 5-16: 15 Pin D-sub male connector

Pin No.	Designation	Function	Color
1	-	Not Connected	-
2	-	Not Connected	-
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	A+	0° Signal+	Blue
8	A-	0° Signal-	Red
9	B+	90° Signal+	Brown
10	B-	90° Signal-	White
11	Z+	Ref Signal+	Pink
12	Z-	Ref Signal-	Grey
13	-	Not Connected	-
14	5 Vdc	+5V Supply	Yellow
15	GND	0V Ground	Green
Backshell	Outer Shield	Shield	N.A.

Note: To select cables for Gamma motors with AMD2000 drive refer [Section 3.2](#)

5.3 LinX[®] Motor Cable with AMD2000 Drive

5.3.1 LinX[®] S-Series Armature Cable with Metal Connector

Applicable for: K2L-TSMD-XXX

Motor End:

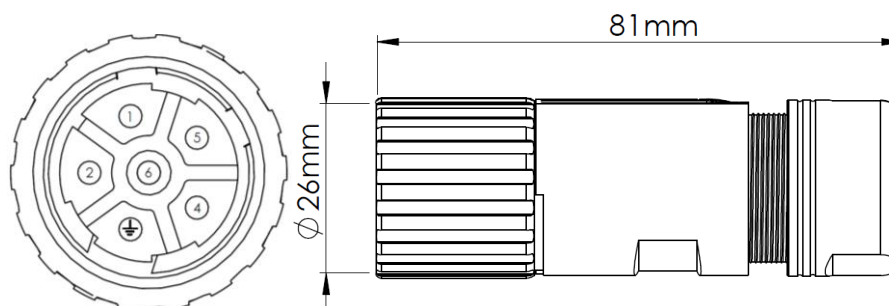


Figure 5-17: M23 Female connector

Pin No.	Designation	Function	Color
1	U	Power	Black
2	V	Power	Black
3	$\bar{G}$	Ground	Yellow/Green
4	T+	Temperature Sensor+	Black
5	T-	Temperature Sensor-	White
6	W	Power	Black
Backshell	Outer Shield	Shield	N.A.

Drive End:

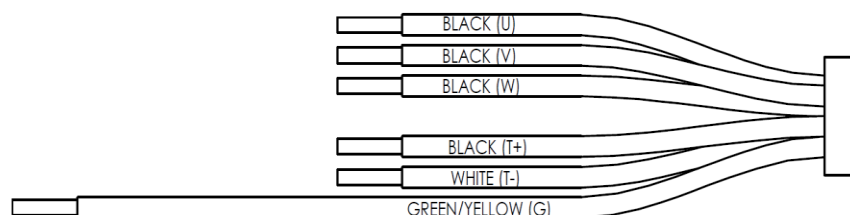


Figure 5-18: Flying Leads

Note:

1. LinX[®] S-Series motor does not have built in encoder in cable. It has only one cable for power connections
2. To select cables for LinX[®] motors with AMD2000 drive refer [Section 3.3](#)

5.3.2 LinX® M-Series Armature Cable with Metal Connector

Applicable for: K2M-T1MD-XXX

Motor End:

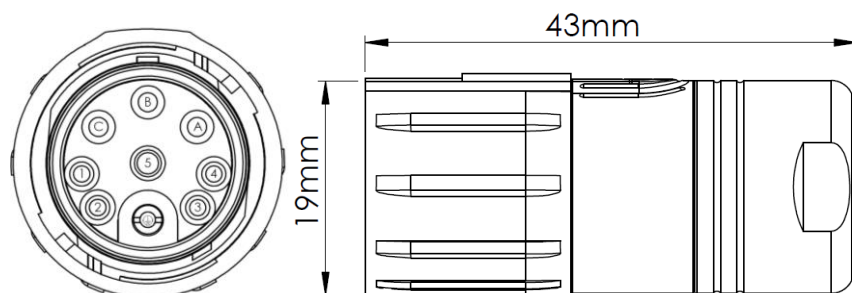


Figure 5-19: M15 Female connector

Pin No.	Designation	Function	Color
A	U	Power	Black
B	V	Power	Black
C	W	Power	Black
⊕	Ġ	Ground	Yellow/Green
1	T+	Temperature Sensor+	Black
2	T-	Temperature Sensor-	White
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
Backshell	Outer Shield	Shield	N.A.

Drive End:

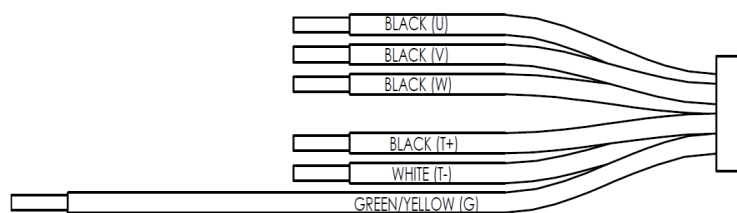


Figure 5-20: Flying Leads

Note: To select cables for LinX® motors with AMD2000 drive refer [Section 3.3](#)

5.3.3 LinX[®] M-Series Analogue 1Vpp Encoder Cable with Metal Connector

Applicable for: K2M-FSMD-XXX

Motor End:

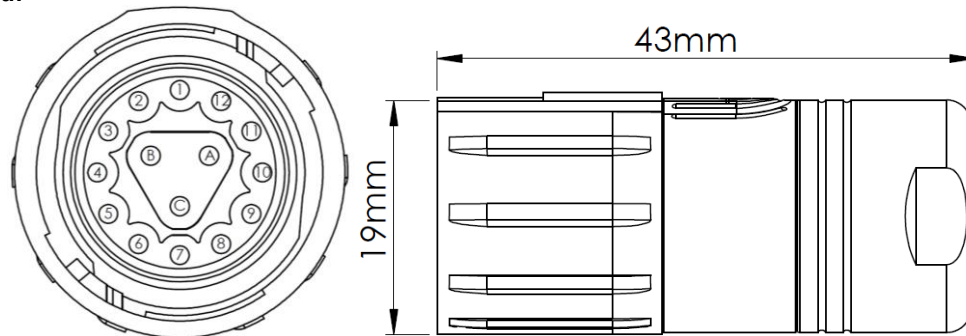
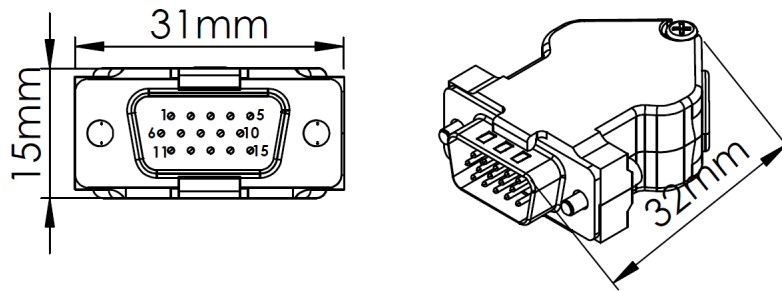


Figure 5-21: M15 female connector

Pin No.	Designation	Function	Color
1	5 Vdc	+5V Supply	Brown/Red
2	GND	0V Ground	Brown/Blue
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	SIN+	Sin Signal+	Yellow
8	SIN-	Sin Signal-	Green
9	COS+	Cos Signal+	Black
10	COS-	Cos Signal-	Brown
11	-	Not Connected	-
12	-	Not Connected	-
A	-	Not Connected	-
B	-	Not Connected	-
C	-	Not Connected	-
Backshell	Outer Shield	Shield	-

Drive End:**Figure 5-22: 15 Pin D-sub male connector**

Pin No.	Designation	Function	Color
1	SIN-	Sin Signal-	Green
2	SIN+	Sin Signal+	Yellow
3	COS-	Cos Signal-	Brown
4	COS+	Cos Signal+	Black
5	-	Not Connected	-
6	-	Not Connected	-
7	-	Not Connected	-
8	-	Not Connected	-
9	-	Not Connected	-
10	-	Not Connected	-
11	-	Not Connected	-
12	-	Not Connected	-
13	-	Not Connected	-
14	5 Vdc	+5V Supply	Brown/Red
15	GND & Inner Shield	0V Ground	Brown/Blue
Backshell	Outer Shield	Shield	-

Note: To select cables for LinX® motors with AMD2000 drive refer [Section 3.3](#)

5.3.4 LinX[®] M-Series Incremental ABZ Encoder Cable with Metal Connector

Applicable for: K2M-FAMD-XXX

Motor End:

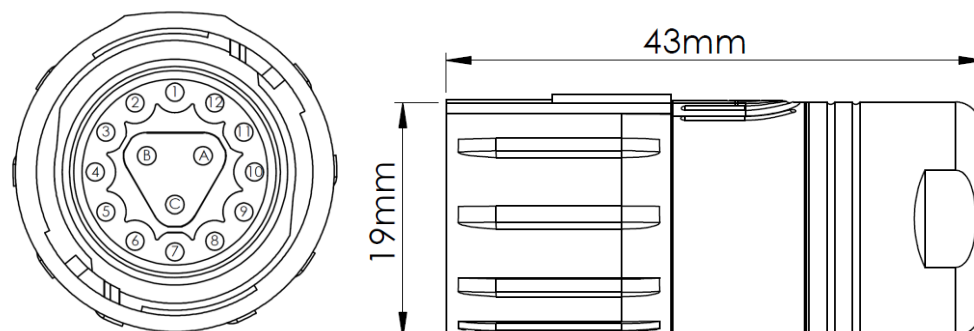


Figure 5-23: M15 female connector

Pin No.	Designation	Function	Color
1	5 Vdc	+5V Supply	Yellow
2	GND	0V Ground	Green
3	A+	0° Signal+	Blue
4	A-	0° Signal-	Red
5	B+	90° Signal+	Brown
6	B-	90° Signal-	White
7	-	Not Connected	-
8	-	Not Connected	-
9	-	Not Connected	-
10	-	Not Connected	-
11	Z+	Ref Signal+	Pink
12	Z-	Ref Signal-	Grey
A	-	Not Connected	-
B	-	Not Connected	-
C	-	Not Connected	-
Backshell	Outer Shield	Shield	-

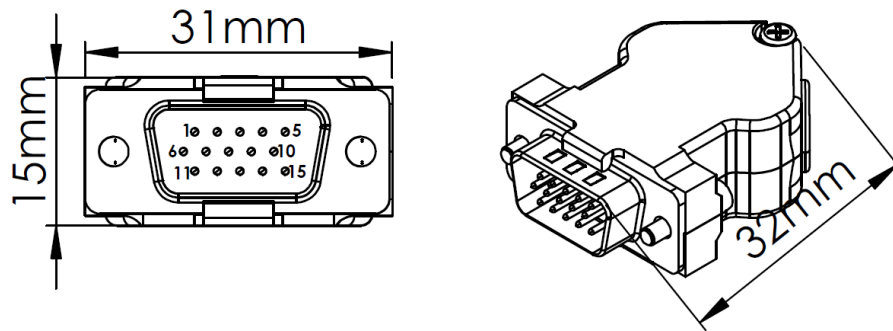
Drive End:

Figure 5-24: 15 Pin D-sub male connector

Pin No.	Designation	Function	Color
1	-	Not Connected	-
2	-	Not Connected	-
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	A+	0° Signal+	Blue
8	A-	0° Signal-	Red
9	B+	90° Signal+	Brown
10	B-	90° Signal-	White
11	Z+	Ref Signal+	Pink
12	Z-	Ref Signal-	Grey
13	-	Not Connected	-
14	5 Vdc	+5V Supply	Yellow
15	GND	0V Ground	Green
Backshell	Outer Shield	Shield	-

Note: To select cables for LinX® motors with AMD2000 drive refer [Section 3.3](#)

5.4 Gamma Motor Cable with AMD5x Drive

5.4.1 Gamm Motor Armature Cable with Metal M23 Connector

Applicable for: K5B-AXMD-XXX, K5B-BXMD-XXX, K5B-TXMD-XXX, K5B-SXMD-XXX

Motor End:

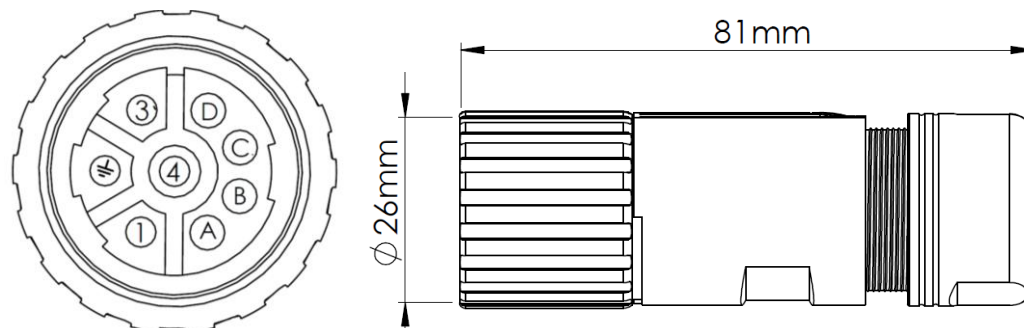


Figure 5-25: M23 Female connector

Pin No.	Designation	Function	Color
1	U	Power	Black
	$\bar{G}$	Ground	Yellow/Green
3	W	Power	Black
4	V	Power	Black
A	T+	Temperature Sensor+	Black
B	T-	Temperature Sensor-	Black
C	B+	Brake+	Black
D	B-	Brake-	Black
Backshell	Outer Shield	Shield	-

Drive end:

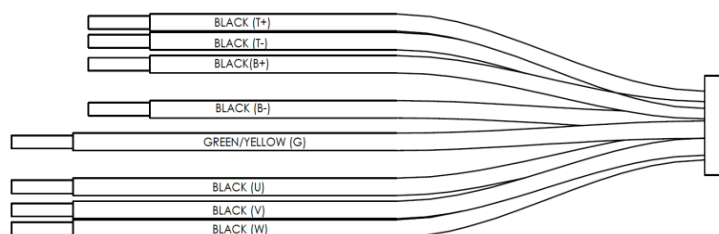


Figure 5-26: Flying Leads

Note: To select cables for Gamma motors with AMD5x drive refer [Section 3.4](#)

5.4.2 Gamma Motor Analogue 1Vpp Encoder Cable with Metal Connector

Applicable for: K5B-FSMD-XXX

Motor End:

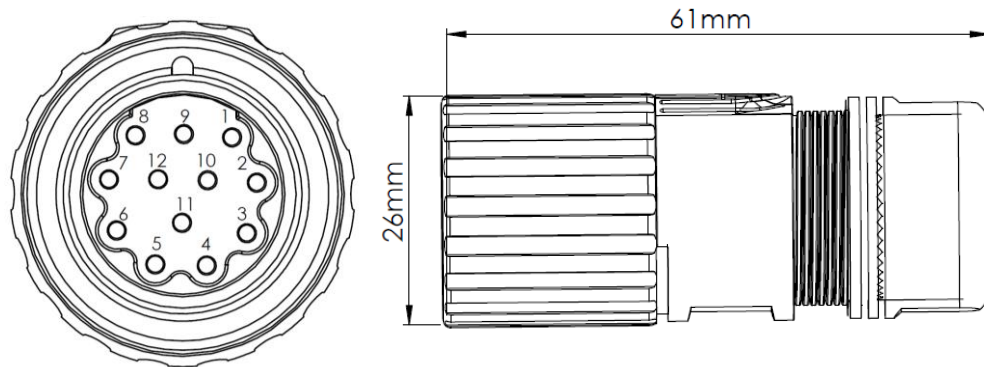


Figure 5-27: M23 Female Connector

Pin No.	Designation	Function	Color
1	COS-	Cos Signal-	Brown
2	COS COM-	Cos Com track-	White/Yellow
3	REF+	Ref Signal+	Red
4	REF-	Ref Signal-	Orange
5	SIN+	Sin Signal+	Yellow
6	SIN-	Sin Signal-	Green
7	SIN COM+	Sin Com track+	Blue
8	COS+	Cos Signal+	Black
9	SIN COM-	Sin Com track-	Grey
10	GND	0V Ground	Brown/Blue
11	COS COM+	Cos Com track+	White/Black
12	+5V	+5V Supply	Brown/Red
Backshell	Outer Shield	Shield	-

Drive End:

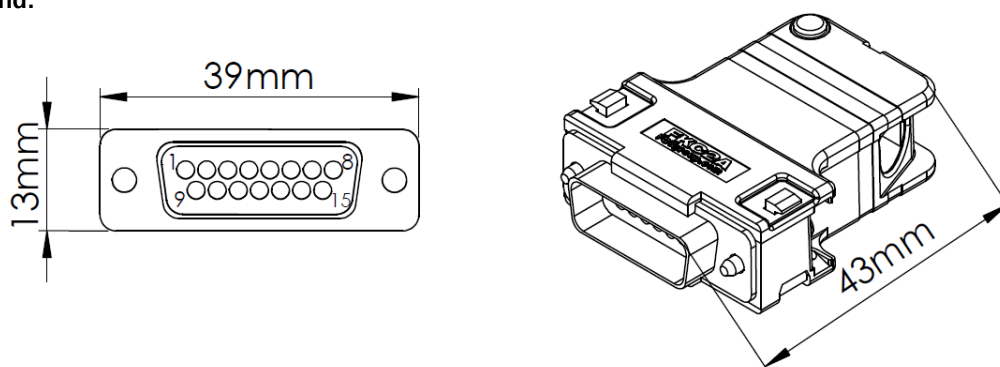


Figure 5-28: 15 Pin D-sub male connector

Pin No.	Designation	Function	Color
1	REF+	Ref Signal+	Red
2	COS-	Cos Signal-	Brown
3	COS_COM-	Cos Com track-	White/Yellow
4	-	Not Connected	-
5	-	Not Connected	-
6	SIN_COM-	Sin Com track-	Grey
7	SIN-	Sin Signal-	Green
8	+5V	+5V Supply	Brown/Red
9	REF-	Ref Signal-	Orange
10	COS+	Cos Signal+	Black
11	COS_COM+	Cos Com track+	White/Black
12	Inner Shield	Shield	-
13	SIN_COM+	Sin Com track+	Blue
14	SIN+	Sin Signal+	Yellow
15	0V	0V Ground	Brown/Blue
Backshell	Outer Shield	Shield	-

Note: To select cables for Gamma motors with AMD5x drive refer [Section 3.4](#)

5.4.3 Gamma Motor Incremental ABZ Encoder Cable with Metal Connector

Applicable for: K5B-FAMD-XXX

Motor End:

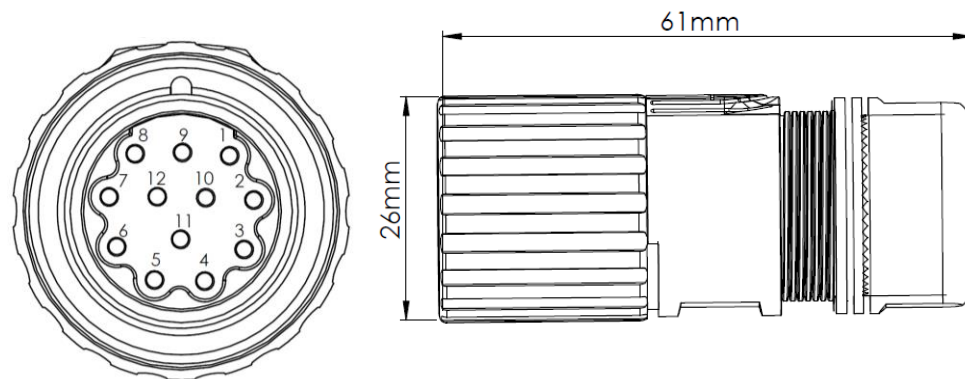


Figure 5-29: M23 Female Connector

Pin No.	Designation	Function	Color
1	B-	90° Signal-	White
2	-	Not Connected	-
3	Z+	Ref Singal+	Pink
4	Z-	Ref Signal-	Grey
5	A+	0° Signal+	Blue
6	A-	0° Signal-	Red
7	-	Not Connected	-
8	B+	90° Signal+	Brown
9	-	Not Connected	-
10	0V	0V Ground	Green
11	-	Not Connected	-
12	+5V	+5V Supply	Yellow
Backshell	Outer Shield	Shield	-

Drive End:

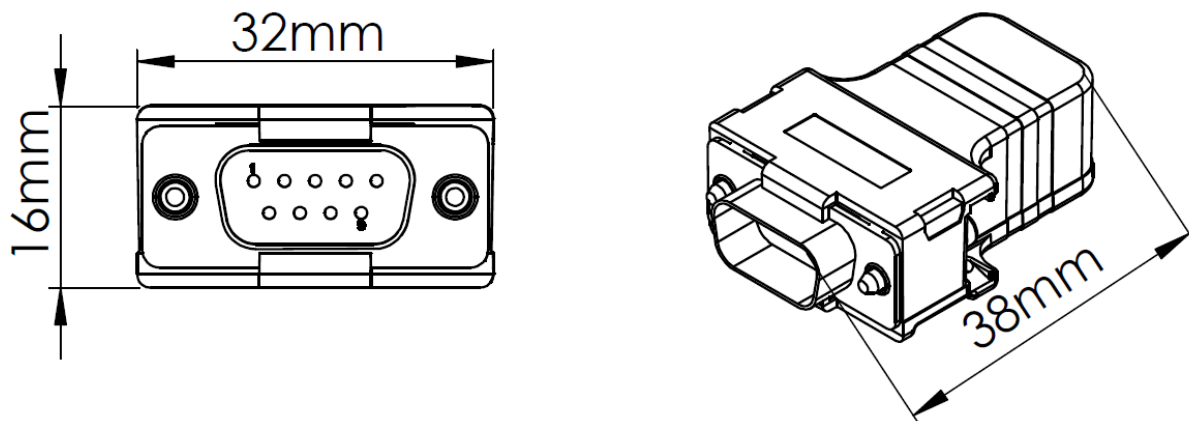


Figure 5-30: 9 Pin D-sub male connector

Pin No.	Designation	Function	Color
1	+5V	+5V Supply	Yellow
2	A+	0° Signal+	Blue
3	A-	0° Signal-	Red
4	-	Not Connected	-
5	Z-	Ref Signal-	Grey
6	0V	0V Ground	Green
7	B+	90° Signal+	Brown
8	B-	90° Signal-	White
9	Z+	Ref Signal+	Pink
Backshell	Outer Shield	Shield	-

Note: To select cables for Gamma motors with AMD5x drive refer [Section 3.4](#)

5.4.4 Gamma Motor Armature Cable with Metal M40 Connector

Applicable for: K5B-AXND-XXX, K5B-BXND-XXX, K5B-TXND-XXX, K5B-SXND-XXX

Motor End:

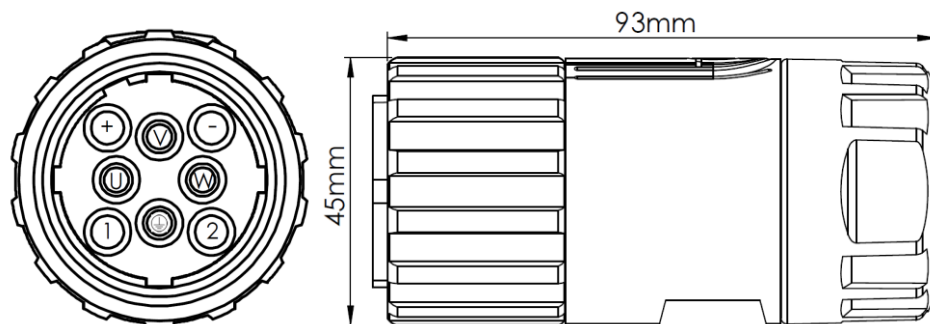


Figure 5-31: M40 Female connector

Pin No.	Designation	Function	Color
U	U	Power	Black
V	V	Power	Black
W	W	Power	Black
⊕	Ġ	Ground	Yellow/Green
1	T+	Temperature Sensor+	Black
2	T-	Temperature Sensor-	White
+	B+	Brake+	Black
-	B-	Brake-	White
Backshell	Outer Shield	Shield	N.A.

Drive End:

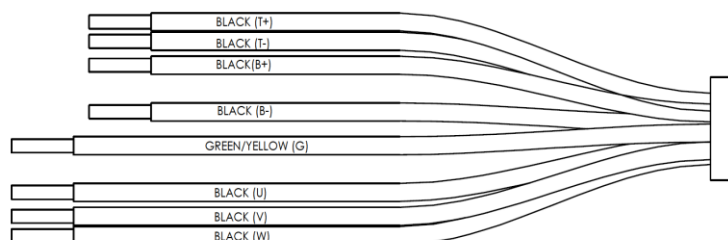


Figure 5-32: Flying Leads

Note: To select cables for Gamma motors with AMD5x drive refer [Section 3.4](#)

5.4.5 Gamma Motor HIPERFACE DSL® Cable with M23 Connector

Applicable for: K5B-HXMD-XXX, K5B-DXMD-XXX

Motor End:

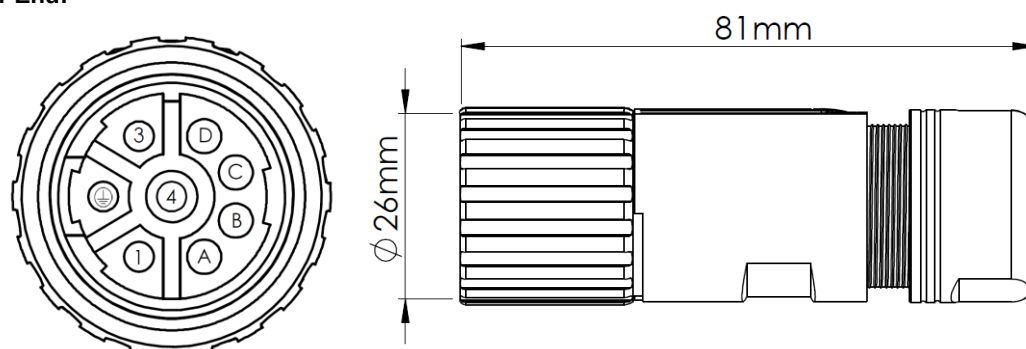


Figure 5-33: M23 Female connector

Pin No.	Designation	Function	Color
1	U	Power	Black
	$\bar{G}$	Ground	Yellow/Green
3	W	Power	Black
4	V	Power	Black
A	D+	HIPERFACE DSL® +	Blue
B	D-	HIPERFACE DSL® -	White
C	B+	Brake+	White
D	B-	Brake-	Black
Backshell	Outer Shield	Shield	-

Drive End:

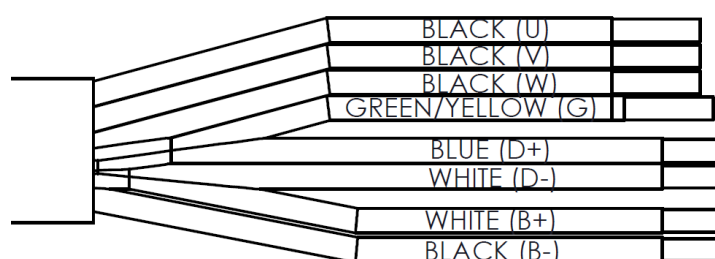


Figure 5-34: Flying Leads

Note: To select cables for Gamma motors with AMD5x drive refer [Section 3.4](#)

5.5 LinX[®] Motor Cable with AMD5x Drive

5.5.1 LinX[®] S-Series Cable with Metal Connector

Applicable for: K5L-TSMD-XXX

Motor End:

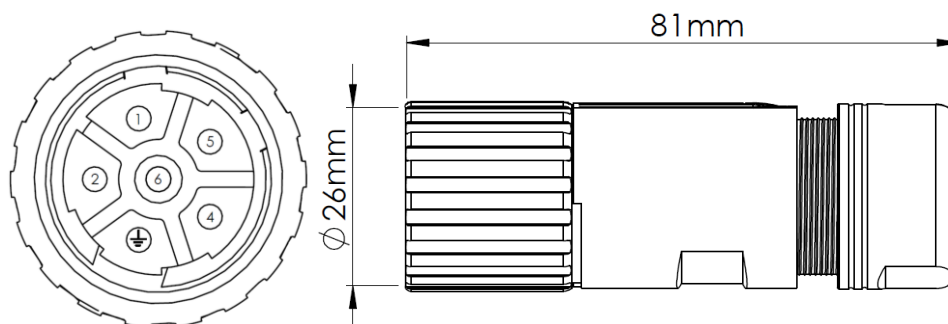


Figure 5-35: M23 Female connector

Pin No.	Designation	Function	Color
1	U	Power	Black
2	V	Power	Black
⊕	Ⓖ	Ground	Yellow/Green
4	T+	Temperature Sensor+	Black
5	T-	Temperature Sensor-	White
6	W	Power	Black
Backshell	Outer Shield	Shield	-

Drive End:

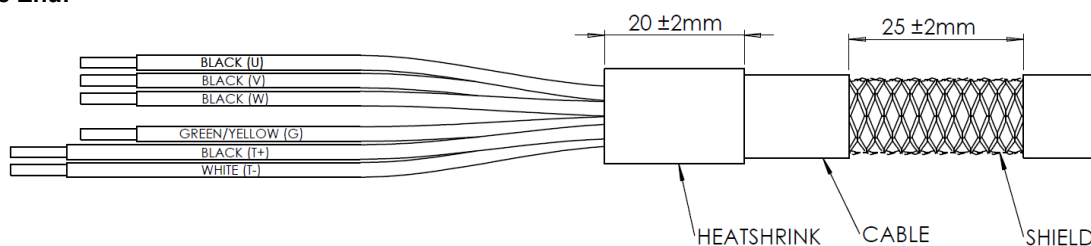


Figure 5-36: Flying Leads

Note: To select cables for LinX[®] motors with AMD5x drive refer [Section 3.5](#)

5.5.2 LinX[®] M-Series Armature Cable with Metal Connector

Applicable for: K5M-T1MD-XXX

Motor End:

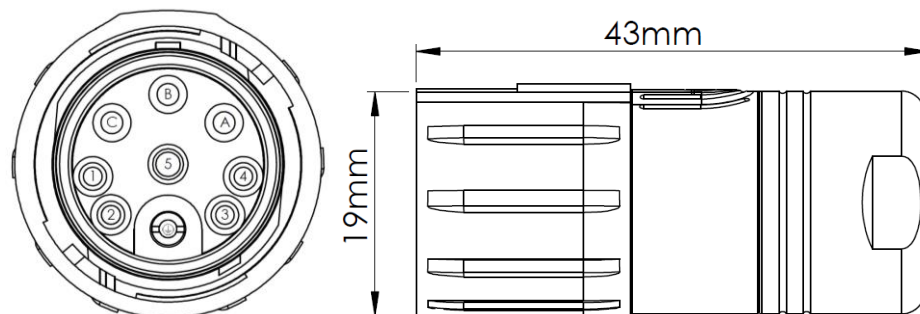


Figure 5-37: M15 Female connector

Pin No.	Designation	Function	Color
A	U	Power	Black
B	V	Power	Black
C	W	Power	Black
⊕	Ⓖ	Ground	Black
1	T+	Temperature Sensor+	Black
2	T-	Temperature Sensor-	White
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
Backshell	Outer Shield	Shield	-

Drive End:

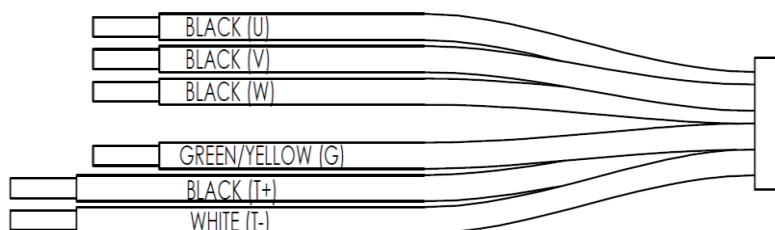


Figure 5-38: Flying Leads

Note: To select cables for LinX[®] motors with AMD5x drive refer [Section 3.5](#)

5.5.3 LinX® M-Series Analogue 1Vpp Encoder Cable with Metal Connector

Applicable for: K5M-FSMD-XXX

Motor End:

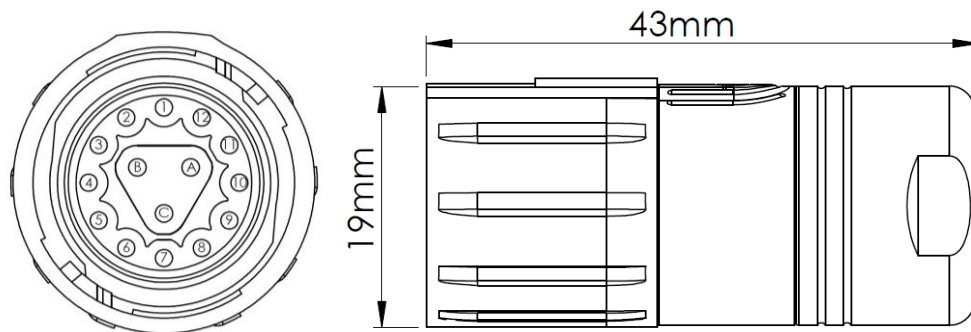


Figure 5-39: M15 Female connector

Pin No.	Designation	Function	Color
1	+5V	+5V Supply	Brown/Red
2	0V	0V Ground	Brown/Blue
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	SIN+	Sin Signal+	Yellow
8	SIN-	Sin Signal-	Green
9	COS+	Cos Signal+	Black
10	COS-	Cos Signal-	Brown
11	-	Not Connected	-
12	-	Not Connected	-
A	-	Not Connected	-
B	-	Not Connected	-
C	-	Not Connected	-
Backshell	Outer Shield	Shield	-

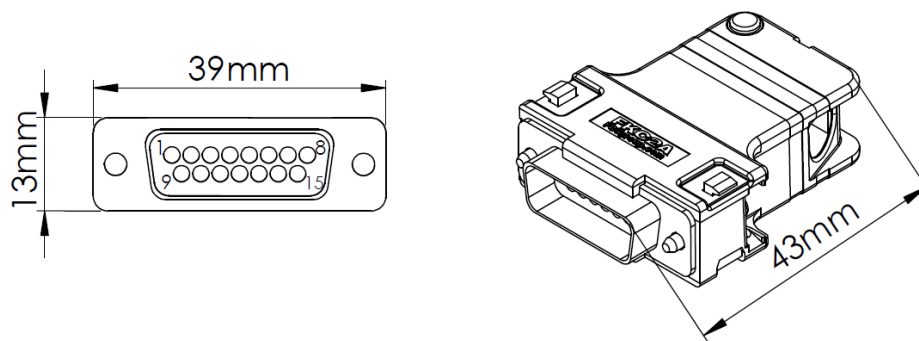
Drive End:

Figure 5-40: 15 Pin D sub male connector

Pin No.	Designation	Function	Color
1	-	Not Connected	-
2	COS-	Cos Signal-	Brown
3	-	Not Connected	-
4	-	Not Connected	-
5	-	Not Connected	-
6	-	Not Connected	-
7	SIN-	Sin Signal-	Green
8	+5V	+5V Supply	Brown/Red
9	-	Not Connected	-
10	COS+	Cos Signal+	Black
11	-	Not Connected	-
12	-	Not Connected	-
13	-	Not Connected	-
14	SIN+	Sin Signal+	Yellow
15	0V	0V Ground	Brown/Blue
Backshell	Outer Shield	Shield	N.A.

Note: To select cables for LinX® motors with AMD5x drive refer [Section 3.5](#)

6 Product, Sales, and Service Enquiries

For details of other products, please contact the closest ANCA Motion Office in your area for details.

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