

***Cable & Connector
Documentation
Reference Guide***

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Foreword

The pages following are a compilation of several years of research regarding documentation referencing Cable and Connector information for Kollmorgen product families. This started out as a quick reference for myself to save me the trouble of having to repeatedly search for information that was at times not easy to obtain. Contained within is information that is published and unpublished, some of which is not necessarily for public usage. Therefore this is considered to be an internal document and not for general public distribution.

As with any research project, the information is at times subject to interpretation and generally based on what is observed or discovered, therefore I believe that a major percentage of what is contained herein is accurate but I am sure that there will be some areas that are subject to disagreement.

The format is relatively the same as my original compilation, with very little instruction, but in this document I have tried to add descriptions and a table of contents to make it easier for the user to find information quickly. An Index may be added in future releases but at this time I am more concerned with getting the document into the hands of those that can use the information.

Mark Beneski
March 1999

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GoldLINE Cable Model Numbering for DBS4 & BDS5 Amplifiers

The following is the model numbering scheme is for cables used with BDS4 &5, and Smart Drive amplifiers. More typically referred to as the “GC” series. This was the first family series of cables and was primarily developed out of the need for cables for these families of amplifiers. It will be noted that when using assembly documentation there are many references to BDS3 products. Although there is no specific family of cables for BDS3 it is believed this is the product that initiated the need to supply cables to customers as a product as well as motors and amplifiers. I believe that these were the early stages of evolution for cables as we moved from customers randomly requesting that we supply a cable to connect between the existing products, to a marketing defined model scheme that would allow easier ordering of cable sets. The “GC” series, followed the intelligent model number scheme like the BDS series of amplifiers, so in theory, information about the product could be determined directly from the model number. Or maybe the reverse was intended, and that a model number could be developed easily from knowing the requirements of the system. Either way, a clear definition was needed to define the entire scheme.

One of the more confusing aspects of these model numbers is with length standardization. A three meter increment has been used as the default standard and when requested and justified, lengths that fall outside of this standard were documented separately, sometimes being ordered by a specific part number rather than a “GC” series model. These specials contribute much confusion and it has been found that we have created unnecessary and duplicate documents.

GOLDLINE B & M MOTORS - GOLDLINE AMPLIFIERS

CABLE SET MODEL NUMBER SYSTEM

EXAMPLE: $\frac{\text{GCS}}{\text{AAA}} \frac{\text{A}}{\text{B}} - \frac{\text{M4A}}{\text{CCC}} / \frac{\text{R}}{\text{D}} - \frac{4/5}{\text{E/E}} - \frac{03}{\text{FF}}$

AAA - Cable set

GCS - GoldLine Cable set

B - Connector type

A - “GCSA”, Screw thread multi turn. Available for “B” & “M” series motors, 40X, 60X, and 80X.

NONE - “GCS”, Bayonet connectors. Available for “B” series motors 10X, 20X, 40X, 60X, & 80X, and “M” series motors 10X, & 20X.

CCC - Motor Frame size

M1 - B-10X, & M-10X, (BDS4/5, and SD, NEC rating to 12A continuous)
M2A - B-20X, & M-20X, (BDS4/5, and SD, NEC rating to 12A continuous)
M2B - B-20X, & M-20X, (BDS4/5, and SD, NEC rating to 16A continuous)
M4A - B-40X, & M-40X, (BDS4/5, and SD, NEC rating to 12A continuous)
M4B - B-40X, & M-40X, (BDS4/5, and SD, NEC rating to 40A continuous)
M6A - B-60X, & M-60X, (BDS4/5, and SD, NEC rating to 16A continuous)
M6B - B-60X, & M-60X, (BDS4/5, and SD, NEC rating to 40A continuous)
M8A - B-80X, & M-80X, (BDS4/5, and SD, NEC rating to 40A continuous)
M8B - B-80X, & M-80X, (BDS3/4/5, and SD, NEC rating to 68A continuous)
M8C - Custom, (BDS3/4/5, and SD, NEC rating to 92A continuous)

D - Feedback type

R - System resolver only.
RB - System resolver and Brake.
RBT - System resolver, Brake, and Tachometer.

E/E - Amplifier Termination

S/D - Smart Drive
4/5 - BDS4 or BDS5
N - Not terminated

FF - Cable length in Meters

03, 06, 09 to 75, in 3 Meter increments only

INDIVIDUAL CABLE MODEL NUMBER SYSTEM

EXAMPLE: $\frac{GC}{AA} \frac{A}{B} - \frac{M4A}{CCC} - \frac{4/5}{D/D} - \frac{03}{EE}$

AA - GoldLINE Cable

GC - GoldLine Cable

B - Connector type

A - “GCA”, Screw thread multi turn. Available for “B” & “M” series motors, 40X, 60X, and 80X.

NONE - “GC”, Bayonet connectors. Available for “B” series motors 10X, 20X, 40X, 60X, & 80X, and “M” series motors 10X, & 20X.

CCC - Cable type and Motor Frame size

M1 - B-10X, & M-10X, (BDS4/5, and SD, NEC rating to 12A continuous)
M2A - B-20X, & M20X, (BDS4/5, and SD, NEC rating to 12A continuous)
M2B - B-20X, & M20X, (BDS4/5, and SD, NEC rating to 16A continuous)
M4A - B-40X, & M40X, (BDS4/5, and SD, NEC rating to 12A continuous)
M4B - B-40X, & M40X, (BDS4/5, and SD, NEC rating to 40A continuous)
M6A - B-60X, & M60X, (BDS4/5, and SD, NEC rating to 16A continuous)
M6B - B-60X, & M60X, (BDS4/5, and SD, NEC rating to 40A continuous)
M8A - B-80X, & M80X, (BDS4/5, and SD, NEC rating to 40A continuous)
M8B - B-80X, & M80X, (BDS3/4/5, and SD, NEC rating to 68A continuous)
M8C - Custom, (BDS3/4/5, and SD, NEC rating to 92A continuous)
R - System resolver only.
RB - System resolver and Brake.
RBT - System resolver, Brake, and Tachometer.

D/D - Amplifier Termination

S/D - Smart Drive
4/5 - BDS4 or BDS5
N - Not terminated

EE - Cable length in Meters

03, 06, 09 to 75, in 3 Meter increments only

It became apparent that part of the “GC” series numbering was more cryptic than reasonably acceptable, such as the M1. M2A, M4A designators.

The accompanying table references a majority of the B & M series frame and winding configurations and a simple cross reference to the “M” designators.

Some general rules of thumb:

All “A” windings will use “MXA” designators.

M1 has never had a letter.

Encoder based GoldLINE 20X series use 40X size connectors.

M8B cables should not be used for motor currents above 68 A.

Motor Frame and Winding		Cable Designator
B-102-A	M-103-A	M1
B-102-B	M-103-B	M1
B-104-A	M-105-A	M1
B-104-B	M-105-B	M1
B-106-A	M-107-A	M1
B-106-B	M-107-B	M1
B-106-C	M-107-C	M1
B-202-A	M-203-A	M2A
B-202-B	M-203-B	M2A
B-202-C	M-203-C	M2A
B-204-A	M-205-A	M2A
B-204-B	M-205-B	M2A
B-204-C	M-205-C	M2A
B-204-D	M-205-D	M2A
B-206-A	M-207-A	M2A
B-206-B	M-207-B	M2A
B-206-C	M-207-C	M2A
B-206-D	M-207-D	M2B
B-206-E	M-207-E	M2A
B-206-F	M-207-F	M2A
B-402-A	M-403-A	M4A
B-402-B	M-403-B	M4A
B-402-C	M-403-C	M4A
B-404-A	M-405-A	M4A
B-404-B	M-405-B	M4A
B-404-C	M-405-C	M4A
B-404-D	M-405-D	M4A
B-404-E	M-405-E	M4B
B-406-A	M-407-A	M4A
B-406-B	M-407-B	M4A
B-406-C	M-407-C	M4B
B-406-D	M-407-D	M4A
B-602-A	M-603-A	M6A
B-602-B	M-603-B	M6A
B-602-C	M-603-C	M6A
B-604-A	M-605-A	M6A
B-604-B	M-605-B	M6B
B-604-C	M-605-C	M6B
B-604-D	M-605-D	M6A
B-606-A	M-607-A	M6A
B-606-B	M-607-B	M6B
B-606-C	M-607-C	M6B
B-606-D	M-607-D	M6B
B-606-E	M-607-E	M6B
B-606-F	M-607-F	M6A
B-802-A	M-803-A	M8A
B-802-B	M-803-B	M8A
B-802-C	M-803-C	M8A
B-804-A	M-805-A	M8A
B-804-B	M-805-B	M8A
B-804-C	M-805-C	M8B
B-804-D	M-805-D	M8B
B-806-A	M-807-A	M8A
B-806-B	M-807-B	M8B
B-806-C	M-807-C	M8A
B-806-D	M-807-D	M8B

Goldline BDS4/5

Cable & Connector Documentation Reference Guide, Issue 1A.

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GoldLINE Cable Documentation Tables

The following tables contain references to all assembly documentation for GoldLINE motors to the early GoldLINE amplifiers, BDS4, BDS5 and Smart Drives. All the documentation is pre “CE” and uses standard connectors. Some documentation covers a range of sizes therefore you will find that many drawings are multi sheet drawings. Also the format is generically dual purpose and was also used in installation manuals and includes wordy assembly instructions that do not always reflect the exact components.

Standard Assembly Reference documentation

Frame size	Amplifier	GC CABLES (BAYONET)				GCA CABLES (THREADED)			
		Motor power	FEEDBACK			Motor power	FEEDBACK		
			R	RB	RBT		R	RB	RBT
M1	BDS4/5	A-93421	A-93369	A-93369	A-93369	-----	-----	-----	-----
M1	S/D	A-93981	A-93982	A-93982	-----	-----	-----	-----	-----
M1	N	B-84218	C-84220	C-93701	C-93495	-----	-----	-----	-----
M2A	BDS4/5	A-93421	A-93369	A-93369	A-93369	-----	-----	-----	-----
M2A	S/D	A-93981	A-93982	A-93982	-----	-----	-----	-----	-----
M2A	N	B-84218	C-84220	C-93701	C-93495	-----	-----	-----	-----
M2B	BDS4/5	A-93421	A-93369	A-93369	A-93369	-----	-----	-----	-----
M2B	S/D	A-93981	A-93982	A-93982	-----	-----	-----	-----	-----
M2B	N	B-84716	C-84220	C-93701	C-93495	-----	-----	-----	-----
M4A	BDS4/5	A-93421	A-93369	A-93369	A-93369	A-93538	A-93540	A-93540	A-93540
M4A	S/D	A-93981	A-93982	A-93982	-----	A-96069	A-96068	A-96068	-----
M4A	N	B-84716	C-84220	C-93701	C-93495	B-93772	C-93665	C-93771	C-93791
M4B	BDS4/5	A-93414	A-93369	A-93369	A-93369	A-93539	A-93540	A-93540	A-93540
M4B	S/D	A-93414	A-93982	A-93982	-----	A-93539	A-96068	A-96068	-----
M4B	N	B-93663	C-84220	C-93701	C-93495	A-96352	C-93665	C-93771	C-93791
M6A	BDS4/5	A-93421	A-93369	A-93369	A-93369	A-93538	A-93540	A-93540	A-93540
M6A	S/D	A-93981	A-93982	A-93982	-----	A-96069	A-96068	A-96068	-----
M6A	N	B-97481	C-84220	C-93701	C-93495	B-97382	C-93665	C-93771	C-93791
M6B	BDS4/5	A-93414	A-93369	A-93369	A-93369	A-93539	A-93540	A-93540	A-93540
M6B	S/D	A-93414	A-93982	A-93982	-----	A-93539	A-96068	A-96068	-----
M6B	N	B-93663	C-84220	C-93701	C-93495	A-96352	C-93665	C-93771	C-93791
M8A	BDS4/5	A-93414	A-93369	A-93369	A-93369	A-93539	A-93540	A-93540	A-93540
M8A	S/D	A-93414	A-93982	A-93982	-----	A-93539	A-96068	A-96068	-----
M8A	N	B-84986	C-84220	C-93701	C-93495	A-96352	C-93665	C-93771	C-93791
M8B	BDS4/5	A-93414	A-93369	A-93369	A-93369	A-93539	A-93540	A-93540	A-93540
M8B	S/D	NO DWG	A-93982	A-93982	-----	A-93539	A-96068	A-96068	-----
M8B	N	A-93414	C-84220	C-93701	C-93495	A-96352	C-93665	C-93771	C-93791

Special length Assembly Documentation

Frame size	Amplifier	GC CABLES (BAYONET)				GCA CABLES (THREADED)			
		Motor power	FEEDBACK			Motor power	FEEDBACK		
			R	RB	RBT		R	RB	RBT
M1	BDS4/5		C-96223			----	----	----	----
M1	S/D		A-96899			----	----	----	----
M1	N					----	----	----	----
M2A	BDS4/5	C-96222	C-96223			----	----	----	----
M2A	S/D		A-96899			----	----	----	----
M2A	N					----	----	----	----
M2B	BDS4/5		C-96223			----	----	----	----
M2B	S/D		A-96899			----	----	----	----
M2B	N					----	----	----	----
M4A	BDS4/5		C-96223			C-97442	C-97443		
M4A	S/D		A-96899			B-96311	C-96310		
M4A	N								
M4B	BDS4/5		C-96223				C-97443		
M4B	S/D		A-96899				C-96310		
M4B	N								
M6A	BDS4/5		C-96223				C-97443		
M6A	S/D		A-96899			B-96308	C-96310		
M6A	N								
M6B	BDS4/5		C-96223				C-97443		
M6B	S/D		A-96899				C-96310		
M6B	N								
M8A	BDS4/5		C-96223				C-97443		
M8A	S/D		A-96899				C-96310		
M8A	N								
M8B	BDS4/5		C-96223				C-97443		
M8B	S/D		A-96899				C-96310		
M8B	N								

90° Connector Assembly Documentation

		GC CABLES (BAYONET)				GCA CABLES (THREADED)			
			FEEDBACK				FEEDBACK		
Frame size	Amplifier	Motor power	R	RB	RBT	Motor power	R	RB	RBT
M1	BDS4/5					----	----	----	----
M1	S/D					----	----	----	----
M1	N					----	----	----	----
M2A	BDS4/5					----	----	----	----
M2A	S/D					----	----	----	----
M2A	N					----	----	----	----
M2B	BDS4/5					----	----	----	----
M2B	S/D					----	----	----	----
M2B	N					----	----	----	----
M4A	BDS4/5					B-96786	B-96678	C-96525	
M4A	S/D						C-96406		
M4A	N					B-93826	C-96097		C-93825
M4B	BDS4/5						B-96678	C-96525	
M4B	S/D						C-96406		
M4B	N						C-96097		C-93825
M6A	BDS4/5					B-96098	B-96678	C-96525	
M6A	S/D						C-96406		
M6A	N						C-96097		C-93825
M6B	BDS4/5					B-96676	B-96678	C-96525	
M6B	S/D						C-96406		
M6B	N						C-96097		C-93825
M8A	BDS4/5					B-97096	B-96678	C-96525	
M8A	S/D						C-96406		
M8A	N					B-96465	C-96097		C-93825
M8B	BDS4/5						B-96678	C-96525	
M8B	S/D						C-96406		
M8B	N						C-96097		C-93825

Special Assembly Documentation

Motor	amplifier	Connector type	Drawing	Special characteristic
M1-M6A	S/D	Bayonet	A-97440	Motor power, High flex (C-Tray) for robotic applications, Wire manufactured by Olflex
M4A-M6A	S/D	Threaded	A-97439	Motor power, High flex (C-Tray) for robotic applications, Wire manufactured by Olflex
M4A-M8B	N	Threaded	C-96782	Application Resolver, unterminated
M1-M8B	N	Bayonet	C-93824	Application Resolver, unterminated
M40XA	BDS4/5	Threaded	B-96694	Motor power, with drive terminals shipped loose.
M1-M8B	BDS4/5	Bayonet	C-93210	Resolver, Brake, Thermostat, brake and thermostat do not extend 1 ft beyond connector.
M1-M8B	BDS4/5	Bayonet	B-93911	Resolver, With 9 ft extension on thermostat leads.
M1-M8B	BDS4/5	Bayonet	B-93599	Resolver, With 6 ft extension on thermostat leads.
M4A-M8B	BDS4/5	Threaded	B-93728	Resolver, 90° connector, Drive terminals shipped loose.
M60XA	BDS4/5	Bayonet	B-93436	Motor power, with drive terminals shipped loose.

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GoldLINE Cable Model Numbering for ServoSTAR Amplifiers

The model numbering scheme for cables used with ServoSTAR amplifiers had much more forethought put into it than the “GC” series. It is a continuation of the intelligent numbering system that has much more detail embedded into it. The original scheme only considered GoldLINE B & M series ,Platinum XT, SilverLINE and a later dropped, Linear motor families. GoldLINE XT was added later after it was determined that similarities were required to create familiarity with end users. Typically referred to as the “CS” series, this section only deals with the GoldLINE B , M & XT series motors. Inclusion of all the possible variables for the different families tends to make the breakdown large and difficult to grasp. It is to be noted however, that since all these families share the same numbering scheme we are now left with little room for expansion. The next generation of motors and or amplifiers needs to either use these same cable sets or devise a complete new scheme.

GOLDLINE B & M, & XT MOTORS/SERVOSTAR AMPLIFIER

CABLE SET MODEL NUMBER SYSTEM

EXAMPLE: $\frac{CS}{AA} - \frac{SS}{BB} - \frac{R}{C} \frac{G}{D} \frac{A}{E} \frac{1}{F} \frac{2}{G} \frac{B}{H} \frac{}{I} \frac{}{J} - \frac{03}{KK}$

AA - Cable set

CS - Cable set

BB - Amplifier Family

SS - ServoSTAR

C - Primary Feedback

C - Commutation Encoder (using single ended halls on XT and Differential Halls on BE & ME series)
 R - Resolver
 S2 - Sine Encoder (type 2, non-Serial Interface)

D - Motor End- Feedback connector

G - GOLDline (Bayonet type)
 A - GOLDline (Threaded type)
 T - GOLDline XT (Threaded type)
 H - GoldLINE XT (Threaded Euro Style)
 U - Unterminated

E - Amplifier End- connection

A - ServoSTAR: 3, 6, 10, & 20 AMP
 B - ServoSTAR: 30 AMP
 C - ServoSTAR: 55 AMP
 F - ServoSTAR: 85 AMP
 G - ServoSTAR 600: 3, 6, 10, & 20 AMP
 U - Unterminated

F - Wire size-Power cable (SEE MOTOR CABLE TABLE)

1 - 14 AWG: GL (M1, M2A, T1A, T3A)
 2 - 12 AWG: GL (M2B, M4A, M6A, T5A, T7A)
 3 - 10 AWG: (T3B)
 4 - 8 AWG: GL (M4B, M6B, M8A, T7B)
 5 - 6 AWG: HAS NEVER BEEN USED
 6 - 4 AWG: GL (M8B, T7C)
 8 - 2 AWG: GL (M8C,custom)
 A - 14/18 AWG Composite: used on Euro style Power and Brake cables
 B - 12/18 AWG Composite: used on Euro style Power and Brake cables
 C - 10/18 AWG Composite: used on Euro style Power and Brake cables

G - Motor End-Power connector type

- 2 - M1, M2A, GL PT Bayonet type
- 3 - M2B, M4A, GL Reverse Bayonet type
- 4 - M4B, M6A, M6B, GL Reverse Bayonet type
- 5 - M8A, GL Reverse Bayonet type
- 6 - M8B, GL Reverse Bayonet type
- 7 - M4A,T5A, GL Threaded type
- 8 - M4B, M6A, M6B,T7A, GL Threaded type
- 9 - M8A, GL Threaded type
- A - M8B,T7C, GL Threaded type
- B - M2A, GL, Threaded type, (BE, Encoder / Hall feedback only, 12AWG)
- C - M8C, High Current custom, Threaded connector
- D - M8C, High Current custom, Reverse Bayonet connector
- E - T7B, GL Threaded type
- H - Euro Threaded Style (T1A, T3A, T3B GL XT series)
- U - Unterminated

H - Brake Option - Omit if not used, Separate Cable on 230V XT 50X & 70X motors

- B - Brake leads, 3 ft.

I - Tach option - Omit if not used

- T - Customer use only, Not supported by ServoSTAR

J - CE Connector Option - Omit if not used, * “E” Standard on XT Cables

- E - CE safety option, Connector shell tied to Shield.

KK - Cable length in meters - 3 meter increments only

XX - i.e. 03,06,09, etc.

Encoder feedback 30 meter maximum length.
Resolver feedback, 75 meter maximum length.

INDIVIDUAL CABLE MODEL NUMBER SYSTEM

Feedback Cables

EXAMPLE: $\frac{CF}{AA}$ - $\frac{SS}{BB}$ - $\frac{R}{C} \frac{G}{D} \frac{A}{E} \frac{B}{F} \frac{\quad}{G} \frac{\quad}{H}$ - $\frac{03}{II}$

AA - Cable set

CF - Feedback Cable

BB - Amplifier Family

SS - ServoSTAR

C - Primary Feedback

C - Commutation Encoder (using single ended halls on XT and Differential Halls on BE & ME series)

R - Resolver

S2 - Sine Encoder (type 2, non-Serial Interface)

D - Motor End- Feedback connector

G - GOLDline (Bayonet type)

A - GOLDline (Threaded type)

T - GOLDline XT (Threaded Type)

H - GoldLINE XT (Threaded Euro Style)

U - Unterminated

E - Amplifier End- connection

A - ServoSTAR: 3-85 AMP

G - ServoSTAR 600: 3, 6, 10, & 20 AMP

U - Unterminated

F - Brake Option - Omit if not used, Not Available on Feedback cable on XT Series

B - Brake leads, 3 ft.

G - Tach option - Omit if not used

T - Customer use only, Not supported by ServoSTAR

H - CE Connector Option - Omit if not used **E” Standard on XT Cables

E - CE safety option, Connector shell tied to Shield.

II - Cable length in meters - 3 meter increments only

XX - i.e. 03,06,09, etc.

Encoder feedback 30 meter maximum length.

Resolver feedback, 75 meter maximum length

INDIVIDUAL CABLE MODEL NUMBER SYSTEM

Motor Power Cables

EXAMPLE: $\frac{CP}{AA} - \frac{SS}{BB} - \frac{A}{C} \frac{1}{D} \frac{2}{E} \frac{_}{F} \frac{_}{G} - \frac{03}{HH}$

AA - Cable set

CP - Motor Power Cable

BB - Amplifier Family

SS - ServoSTAR

C - Amplifier End- connection

A - ServoSTAR: 3, 6, 10, & 20 AMP
 B - ServoSTAR: 30 AMP
 C - ServoSTAR: 55 AMP
 F - ServoSTAR: 85 AMP
 G - ServoSTAR 600: 3, 6, 10, & 20 AMP
 U - Unterminated

D - Wire size-Power cable (SEE MOTOR CABLE TABLE)

1 - 14 AWG: GL (M1, M2A, T1A, T3A)
 2 - 12 AWG: GL (M2B, M4A, M6A, T5A, T7A)
 3 - 10 AWG: (T3B)
 4 - 8 AWG: GL (M4B, M6B, M8A, T7B)
 5 - 6 AWG: HAS NEVER BEEN USED
 6 - 4 AWG: GL (M8B, T7C)
 8 - 2 AWG: GL (M8C,custom)
 A - 14/18 AWG Composite: used on Euro style Power and Brake cables
 B - 12/18 AWG Composite: used on Euro style Power and Brake cables
 C - 10/18 AWG Composite: used on Euro style Power and Brake cables

E - Motor End-Power connector type

2 - M1, M2A, GL PT Bayonet type
 3 - M2B, M4A, GL Reverse Bayonet type
 4 - M4B, M6A, M6B, GL Reverse Bayonet type
 5 - M8A, GL Reverse Bayonet type
 6 - M8B, GL Reverse Bayonet type
 7 - M4A,T5A, GL Threaded type
 8 - M4B, M6A, M6B,T7A, GL Threaded type
 9 - M8A, GL Threaded type
 A - M8B,T7C, GL Threaded type
 B - M2A, GL, Threaded type, (BE, Encoder / Hall feedback only, 12AWG)
 C - M8C, High Current custom, Threaded connector
 D - M8C, High Current custom, Reverse Bayonet connector
 E - T7B, GL Threaded type

H - Euro Threaded Style (T1A, T3A, T3B GL XT series)
 U - Unterminated
 E - T7B, GL Threaded type
 U - Unterminated

F - **Brake Option** - Omit if not used, Not Available on Feedback cable on XT Series

B - Brake leads, 3 ft.

G - **CE Connector Option** - Omit if not used **Standard on XT Cables**

E - CE safety option, Connector shell tied to Shield.

HH - **Cable length in meters** - 3 meter increments only

XX - i.e. 03,06,09, etc.

Motor Brake Cables

(Available as separate cable for XT 50X & 70X motor Family)

EXAMPLE: $\frac{CB}{AA} - \frac{T}{B} \frac{E}{C} - \frac{U}{D} - \frac{03}{EE}$

AA - **Cable type**

CB - Motor Brake Cable

B - **Motor Family**

T - GoldLINE XT (50X & 70X)

C - **CE Connector Option** - Omit if not used * “E” **Standard on XT Cables.**

E - CE safety option, Connector shell tied to Shield.* **Standard on XT Cables**

D - **Termination type**

U - **Unterminated**

EE - **Cable length in meters** - 3 meter increments

XX - i.e. 03,06,09, etc. Note: Cable is 3 ft longer than specified length

MOTOR CABLE TABLE

Designator	Frame size	Drive rating
M1	B-10X, M-10X	3-20 Amps continuous
M2A	B-20X, M-20X	3-20 Amps continuous
M2B	B-20X, M-20X	30 Amps continuous
M4A	B-40X, M-40X	3-20 Amps continuous
M4B	B-40X, M-40X	30 Amps continuous
M6A	B-60X, M-60X	3-20 Amps continuous
M6B	B-60X, M-60X	30-55 Amps continuous
M8A	B-80X, M-80X	30-55 Amps continuous
M8B	B-80X, M-80X	30-55 Amps continuous
M8C	B-80X, M-80X	85 Amps continuous
T1A	XT 150X	3-10 Amps Continuous
T3A	XT 30X	3-10 Amps Continuous
T5A	XT 50X	3-10 Amps Continuous
T5B	XT 50X	10-20 aMPS
T7A	XT 70X	3-10 Amps Continuous
T7B	XT 70X	30 Amps Continuous
T7C	XT 70X	40-55 Amps Continuous

B & M Motor	Current Rating	ServoSTAR (resolver based)								
		Bayonet type connectors								
		Resolver			Resolver/Brake			Resolver/Brake/Tach		
		Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback
B-102-A	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-104-A	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-104-B	6A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-106-A	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-106-B	6A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-202-A	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-202-B	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-202-C	6A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-204-A	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-204-B	6A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-204-C	10A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-206-A	3A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-206-B	6A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-206-C	10A	CS-SS-RGA12-XX	CP-SS-A12-XX	CF-SS-RGA-XX	CS-SS-RGA12B-XX	CP-SS-A12-XX	CF-SS-RGAB-XX	CS-SS-RGA12BT-XX	CP-SS-A12-XX	N/A
B-206-D	20A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-402-A	3A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-402-B	6A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-402-C	10A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-404-A	6A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-404-B	10A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-404-C	20A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-406-A	10A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-406-B	20A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-406-C	30A	CS-SS-RGB44-XX	CP-SS-B44-XX	CF-SS-RGA-XX	CS-SS-RGB44B-XX	CP-SS-B44-XX	CF-SS-RGAB-XX	CS-SS-RGB44BT-XX	CP-SS-B44-XX	N/A
B-406-D	20A	CS-SS-RGA23-XX	CP-SS-A23-XX	CF-SS-RGA-XX	CS-SS-RGA23B-XX	CP-SS-A23-XX	CF-SS-RGAB-XX	CS-SS-RGA23BT-XX	CP-SS-A23-XX	N/A
B-602-A	10A	CS-SS-RGA24-XX	CP-SS-A24-XX	CF-SS-RGA-XX	CS-SS-RGA24B-XX	CP-SS-A24-XX	CF-SS-RGAB-XX	CS-SS-RGA24BT-XX	CP-SS-A24-XX	N/A
B-602-B	20A	CS-SS-RGA24-XX	CP-SS-A24-XX	CF-SS-RGA-XX	CS-SS-RGA24B-XX	CP-SS-A24-XX	CF-SS-RGAB-XX	CS-SS-RGA24BT-XX	CP-SS-A24-XX	N/A
B-604-A	20A	CS-SS-RGA24-XX	CP-SS-A24-XX	CF-SS-RGA-XX	CS-SS-RGA24B-XX	CP-SS-A24-XX	CF-SS-RGAB-XX	CS-SS-RGA24BT-XX	CP-SS-A24-XX	N/A
B-604-B	30A	CS-SS-RGB44-XX	CP-SS-B44-XX	CF-SS-RGA-XX	CS-SS-RGB44B-XX	CP-SS-B44-XX	CF-SS-RGAB-XX	CS-SS-RGB44BT-XX	CP-SS-B44-XX	N/A
B-604-C	55A	CS-SS-RGC44-XX	CP-SS-C44-XX	CF-SS-RGA-XX	CS-SS-RGC44B-XX	CP-SS-C44-XX	CF-SS-RGAB-XX	CS-SS-RGC44BT-XX	CP-SS-C44-XX	N/A
B-606-A	20A	CS-SS-RGA24-XX	CP-SS-A24-XX	CF-SS-RGA-XX	CS-SS-RGA24B-XX	CP-SS-A24-XX	CF-SS-RGAB-XX	CS-SS-RGA24BT-XX	CP-SS-A24-XX	N/A
B-606-B	55A	CS-SS-RGC44-XX	CP-SS-C44-XX	CF-SS-RGA-XX	CS-SS-RGC44B-XX	CP-SS-C44-XX	CF-SS-RGAB-XX	CS-SS-RGC44BT-XX	CP-SS-C44-XX	N/A
B-606-C	55A	CS-SS-RGC44-XX	CP-SS-C44-XX	CF-SS-RGA-XX	CS-SS-RGC44B-XX	CP-SS-C44-XX	CF-SS-RGAB-XX	CS-SS-RGC44BT-XX	CP-SS-C44-XX	N/A
B-606-D	30A	CS-SS-RGB44-XX	CP-SS-B44-XX	CF-SS-RGA-XX	CS-SS-RGB44B-XX	CP-SS-B44-XX	CF-SS-RGAB-XX	CS-SS-RGB44BT-XX	CP-SS-B44-XX	N/A
B-802-A	30A	CS-SS-RGB45-XX	CP-SS-B45-XX	CF-SS-RGA-XX	CS-SS-RGB45B-XX	CP-SS-B45-XX	CF-SS-RGAB-XX	CS-SS-RGB45BT-XX	CP-SS-B45-XX	N/A
B-802-B	55A	CS-SS-RGC45-XX	CP-SS-C45-XX	CF-SS-RGA-XX	CS-SS-RGC45B-XX	CP-SS-C45-XX	CF-SS-RGAB-XX	CS-SS-RGC45BT-XX	CP-SS-C45-XX	N/A
B-804-A	55A	CS-SS-RGC45-XX	CP-SS-C45-XX	CF-SS-RGA-XX	CS-SS-RGC45B-XX	CP-SS-C45-XX	CF-SS-RGAB-XX	CS-SS-RGC45BT-XX	CP-SS-C45-XX	N/A
B-804-B	55A	CS-SS-RGC45-XX	CP-SS-C45-XX	CF-SS-RGA-XX	CS-SS-RGC45B-XX	CP-SS-C45-XX	CF-SS-RGAB-XX	CS-SS-RGC45BT-XX	CP-SS-C45-XX	N/A
B-804-C	---									
B-806-A	55A	CS-SS-RGC45-XX	CP-SS-C45-XX	CF-SS-RGA-XX	CS-SS-RGC45B-XX	CP-SS-C45-XX	CF-SS-RGAB-XX	CS-SS-RGC45BT-XX	CP-SS-B45-XX	N/A
B-806-B	---									
B-806-C	30A	CS-SS-RGB45-XX	CP-SS-B45-XX	CF-SS-RGA-XX	CS-SS-RGB45B-XX	CP-SS-B45-XX	CF-SS-RGAB-XX	CS-SS-RGB45BT-XX	CP-SS-C45-XX	N/A

B & M Motor	Current Rating	ServoSTAR (resolver based)								
		Threaded type connectors								
		Resolver			Resolver/Brake			Resolver/Brake/tach		
		Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback
B-102-A	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-104-A	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-104-B	6A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-106-A	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-106-B	6A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-202-A	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-202-B	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-202-C	6A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-204-A	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-204-B	6A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-204-C	10A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-A	3A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-B	6A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-C	10A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-D	20A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-402-A	3A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-402-B	6A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-402-C	10A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-404-A	6A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-404-B	10A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-404-C	20A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-406-A	10A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-406-B	20A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-406-C	30A	CS-SS-RAB48-XX	CP-SS-B48-XX	CF-SS-RAA-XX	CS-SS-RAB48B-XX	CP-SS-B48-XX	CF-SS-RAAB-XX	CS-SS-RAB48BT-XX	CP-SS-B48-XX	N/A
B-406-D	20A	CS-SS-RAA27-XX	CP-SS-A27-XX	CF-SS-RAA-XX	CS-SS-RAA27B-XX	CP-SS-A27-XX	CF-SS-RAAB-XX	CS-SS-RAA27BT-XX	CP-SS-A27-XX	N/A
B-602-A	10A	CS-SS-RAA28-XX	CP-SS-A28-XX	CF-SS-RAA-XX	CS-SS-RAA28B-XX	CP-SS-A28-XX	CF-SS-RAAB-XX	CS-SS-RAA28BT-XX	CP-SS-A28-XX	N/A
B-602-B	20A	CS-SS-RAA28-XX	CP-SS-A28-XX	CF-SS-RAA-XX	CS-SS-RAA28B-XX	CP-SS-A28-XX	CF-SS-RAAB-XX	CS-SS-RAA28BT-XX	CP-SS-A28-XX	N/A
B-604-A	20A	CS-SS-RAA28-XX	CP-SS-A28-XX	CF-SS-RAA-XX	CS-SS-RAA28B-XX	CP-SS-A28-XX	CF-SS-RAAB-XX	CS-SS-RAA28BT-XX	CP-SS-A28-XX	N/A
B-604-B	30A	CS-SS-RAB48-XX	CP-SS-B48-XX	CF-SS-RAA-XX	CS-SS-RAB48B-XX	CP-SS-B48-XX	CF-SS-RAAB-XX	CS-SS-RAB48BT-XX	CP-SS-B48-XX	N/A
B-604-C	55A	CS-SS-RAC48-XX	CP-SS-C48-XX	CF-SS-RAA-XX	CS-SS-RAC48B-XX	CP-SS-C48-XX	CF-SS-RAAB-XX	CS-SS-RAC48BT-XX	CP-SS-C48-XX	N/A
B-606-A	20A	CS-SS-RAA28-XX	CP-SS-A28-XX	CF-SS-RAA-XX	CS-SS-RAA28B-XX	CP-SS-A28-XX	CF-SS-RAAB-XX	CS-SS-RAA28BT-XX	CP-SS-A28-XX	N/A
B-606-B	55A	CS-SS-RAC48-XX	CP-SS-C48-XX	CF-SS-RAA-XX	CS-SS-RAC48B-XX	CP-SS-C48-XX	CF-SS-RAAB-XX	CS-SS-RAC48BT-XX	CP-SS-C48-XX	N/A
B-606-C	55A	CS-SS-RAC48-XX	CP-SS-C48-XX	CF-SS-RAA-XX	CS-SS-RAC48B-XX	CP-SS-C48-XX	CF-SS-RAAB-XX	CS-SS-RAC48BT-XX	CP-SS-C48-XX	N/A
B-606-D	30A	CS-SS-RAB48-XX	CP-SS-B48-XX	CF-SS-RAA-XX	CS-SS-RAB48B-XX	CP-SS-B48-XX	CF-SS-RAAB-XX	CS-SS-RAB48BT-XX	CP-SS-B48-XX	N/A
B-802-A	30A	CS-SS-RAB49-XX	CP-SS-B49-XX	CF-SS-RAA-XX	CS-SS-RAB49B-XX	CP-SS-B49-XX	CF-SS-RAAB-XX	CS-SS-RAB49BT-XX	CP-SS-B49-XX	N/A
B-802-B	55A	CS-SS-RAC49-XX	CP-SS-C49-XX	CF-SS-RAA-XX	CS-SS-RAC49B-XX	CP-SS-C49-XX	CF-SS-RAAB-XX	CS-SS-RAC49BT-XX	CP-SS-C49-XX	N/A
B-804-A	55A	CS-SS-RAC49-XX	CP-SS-C49-XX	CF-SS-RAA-XX	CS-SS-RAC49B-XX	CP-SS-C49-XX	CF-SS-RAAB-XX	CS-SS-RAC49BT-XX	CP-SS-C49-XX	N/A
B-804-B	55A	CS-SS-RAC49-XX	CP-SS-C49-XX	CF-SS-RAA-XX	CS-SS-RAC49B-XX	CP-SS-C49-XX	CF-SS-RAAB-XX	CS-SS-RAC49BT-XX	CP-SS-C49-XX	N/A
B-804-C	---									
B-806-A	55A	CS-SS-RAC49-XX	CP-SS-C49-XX	CF-SS-RAA-XX	CS-SS-RAC49B-XX	CP-SS-C49-XX	CF-SS-RAAB-XX	CS-SS-RAC49BT-XX	CP-SS-C49-XX	N/A
B-806-B	---									
B-806-C	30A	CS-SS-RAB49-XX	CP-SS-B49-XX	CF-SS-RAA-XX	CS-SS-RAB49B-XX	CP-SS-B49-XX	CF-SS-RAAB-XX	CS-SS-RAB49BT-XX	CP-SS-B49-XX	N/A

B & M Motor	Current Rating	ServoSTAR (Encoder based)					
		Bayonet type connectors					
		Encoder			Encoder/Brake		
		Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback
B-102-A	3A	CS-SS-CGA!2-XX	CP-SS-A12-XX	CF-SS-CGA-XX	CS-SS-CGA!2B-XX	CP-SS-A12-XX	CF-SS-CGAB-XX
B-104-A	3A	CS-SS-CGA!2-XX	CP-SS-A12-XX	CF-SS-CGA-XX	CS-SS-CGA!2B-XX	CP-SS-A12-XX	CF-SS-CGAB-XX
B-104-B	6A	CS-SS-CGA!2-XX	CP-SS-A12-XX	CF-SS-CGA-XX	CS-SS-CGA!2B-XX	CP-SS-A12-XX	CF-SS-CGAB-XX
B-106-A	3A	CS-SS-CGA!2-XX	CP-SS-A12-XX	CF-SS-CGA-XX	CS-SS-CGA!2B-XX	CP-SS-A12-XX	CF-SS-CGAB-XX
B-106-B	6A	CS-SS-CGA!2-XX	CP-SS-A12-XX	CF-SS-CGA-XX	CS-SS-CGA!2B-XX	CP-SS-A12-XX	CF-SS-CGAB-XX
B-202-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-202-B	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-202-C	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-204-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-204-B	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-204-C	10A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-B	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-C	10A	N/A	N/A	N/A	N/A	N/A	N/A
B-206-D	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-402-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-402-B	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-402-C	10A	N/A	N/A	N/A	N/A	N/A	N/A
B-404-A	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-404-B	10A	N/A	N/A	N/A	N/A	N/A	N/A
B-404-C	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-406-A	10A	N/A	N/A	N/A	N/A	N/A	N/A
B-406-B	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-406-C	30A	N/A	N/A	N/A	N/A	N/A	N/A
B-406-D	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-602-A	10A	N/A	N/A	N/A	N/A	N/A	N/A
B-602-B	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-604-A	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-604-B	30A	N/A	N/A	N/A	N/A	N/A	N/A
B-604-C	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-606-A	20A	N/A	N/A	N/A	N/A	N/A	N/A
B-606-B	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-606-C	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-606-D	30A	N/A	N/A	N/A	N/A	N/A	N/A
B-802-A	30A	N/A	N/A	N/A	N/A	N/A	N/A
B-802-B	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-804-A	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-804-B	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-804-C	---	N/A	N/A	N/A	N/A	N/A	N/A
B-806-A	55A	N/A	N/A	N/A	N/A	N/A	N/A
B-806-B	---	N/A	N/A	N/A	N/A	N/A	N/A
B-806-C	30A	N/A	N/A	N/A	N/A	N/A	N/A

B & M Motor	Current Rating	ServoSTAR (Encoder based)					
		Threaded type connectors					
		Encoder			Encoder/Brake		
		Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback
B-102-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-104-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-104-B	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-106-A	3A	N/A	N/A	N/A	N/A	N/A	N/A
B-106-B	6A	N/A	N/A	N/A	N/A	N/A	N/A
B-202-A	3A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-202-B	3A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-202-C	6A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-204-A	3A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-204-B	6A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-204-C	10A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-206-A	3A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-206-B	6A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-206-C	10A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-206-D	20A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-402-A	3A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-402-B	6A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-402-C	10A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-404-A	6A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-404-B	10A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-404-C	20A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-406-A	10A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-406-B	20A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-406-C	30A	CS-SS-CAB48-XX	CP-SS-B48-XX	CF-SS-CAA-XX	CS-SS-CAB48B-XX	CP-SS-B48-XX	CF-SS-CAAB-XX
B-406-D	20A	CS-SS-CAA27-XX	CP-SS-A27-XX	CF-SS-CAA-XX	CS-SS-CAA27B-XX	CP-SS-A27-XX	CF-SS-CAAB-XX
B-602-A	10A	CS-SS-CAA28-XX	CP-SS-A28-XX	CF-SS-CAA-XX	CS-SS-CAA28B-XX	CP-SS-A28-XX	CF-SS-CAAB-XX
B-602-B	20A	CS-SS-CAA28-XX	CP-SS-A28-XX	CF-SS-CAA-XX	CS-SS-CAA28B-XX	CP-SS-A28-XX	CF-SS-CAAB-XX
B-604-A	20A	CS-SS-CAA28-XX	CP-SS-A28-XX	CF-SS-CAA-XX	CS-SS-CAA28B-XX	CP-SS-A28-XX	CF-SS-CAAB-XX
B-604-B	30A	CS-SS-CAB48-XX	CP-SS-B48-XX	CF-SS-CAA-XX	CS-SS-CAB48B-XX	CP-SS-B48-XX	CF-SS-CAAB-XX
B-604-C	55A	CS-SS-CAC48-XX	CP-SS-C48-XX	CF-SS-CAA-XX	CS-SS-CAC48B-XX	CP-SS-C48-XX	CF-SS-CAAB-XX
B-606-A	20A	CS-SS-CAA28-XX	CP-SS-A28-XX	CF-SS-CAA-XX	CS-SS-CAA28B-XX	CP-SS-A28-XX	CF-SS-CAAB-XX
B-606-B	55A	CS-SS-CAC48-XX	CP-SS-C48-XX	CF-SS-CAA-XX	CS-SS-CAC48B-XX	CP-SS-C48-XX	CF-SS-CAAB-XX
B-606-C	55A	CS-SS-CAC48-XX	CP-SS-C48-XX	CF-SS-CAA-XX	CS-SS-CAC48B-XX	CP-SS-C48-XX	CF-SS-CAAB-XX
B-606-D	30A	CS-SS-CAB48-XX	CP-SS-B48-XX	CF-SS-CAA-XX	CS-SS-CAB48B-XX	CP-SS-B48-XX	CF-SS-CAAB-XX
B-802-A	30A	CS-SS-CAB49-XX	CP-SS-B49-XX	CF-SS-CAA-XX	CS-SS-CAB49B-XX	CP-SS-B49-XX	CF-SS-CAAB-XX
B-802-B	55A	CS-SS-CAC49-XX	CP-SS-C49-XX	CF-SS-CAA-XX	CS-SS-CAC49B-XX	CP-SS-C49-XX	CF-SS-CAAB-XX
B-804-A	55A	CS-SS-CAC49-XX	CP-SS-C49-XX	CF-SS-CAA-XX	CS-SS-CAC49B-XX	CP-SS-C49-XX	CF-SS-CAAB-XX
B-804-B	55A	CS-SS-CAC49-XX	CP-SS-C49-XX	CF-SS-CAA-XX	CS-SS-CAC49B-XX	CP-SS-C49-XX	CF-SS-CAAB-XX
B-804-C	---		CP-SS-C49-XX	CF-SS-CAA-XX		CP-SS-C49-XX	CF-SS-CAAB-XX
B-806-A	55A	CS-SS-CAC49-XX	CP-SS-C49-XX	CF-SS-CAA-XX	CS-SS-CAC49B-XX	CP-SS-C49-XX	CF-SS-CAAB-XX
B-806-B	---		CP-SS-B49-XX	CF-SS-CAA-XX		CP-SS-B49-XX	CF-SS-CAAB-XX
B-806-C	30A	CS-SS-CAB49-XX	CP-SS-B49-XX	CF-SS-CAA-XX	CS-SS-CAB49B-XX	CP-SS-B49-XX	CF-SS-CAAB-XX

XT Motor	Current Rating	ServoSTAR (Encoder based)						
		XT Threaded type connectors						
		Encoder			Encoder/Brake			
		Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback	Brake
1502A	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
1502B	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
1504A	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
1504B	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
1506A	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
1506B	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
302A	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
302B	6A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
304A	3A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
304B	6A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
306A	6A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
306B	10A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
308A	6A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
308B	10A	CS-SS-CHA1HE-XX	CP-SS-A1HE-XX	CF-SS-CHAE-XX	CS-SS-CHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-CHAE-XX	N/A
502A	3A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
502B	6A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
504A	6A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
504B	10A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
506A	10A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
506B	20A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
508A	N/A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
508B	N/A	CS-SS-CTA27E-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CS-SS-CTA27BE-XX	CP-SS-A27E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
701A	10A	CS-SS-CTA28E-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CS-SS-CTA28BE-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
701B	20A	CS-SS-CTA28E-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CS-SS-CTA28BE-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
702A	20A	CS-SS-CTA28E-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CS-SS-CTA28BE-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
702B	30A	CS-SS-CTB48E-XX	CP-SS-B48E-XX	CF-SS-CTAE-XX	CS-SS-CTB48BE-XX	CP-SS-B48E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
704A	20A	CS-SS-CTA28E-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CS-SS-CTA28BE-XX	CP-SS-A28E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
704B	30A	CS-SS-CTB48E-XX	CP-SS-B48E-XX	CF-SS-CTAE-XX	CS-SS-CTB48BE-XX	CP-SS-B48E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
706A	30A	CS-SS-CTB48E-XX	CP-SS-B48E-XX	CF-SS-CTAE-XX	CS-SS-CTB48BE-XX	CP-SS-B48E-XX	CF-SS-CTAE-XX	CB-TE-U-XX
706B	55A	CS-SS-CTC6AE-XX	CP-SS-C6AE-XX	CF-SS-CTAE-XX	CS-SS-CTC6BAE-XX	CP-SS-C6AE-XX	CF-SS-CTAE-XX	CB-TE-U-XX
708A	55A	CS-SS-CTC6AE-XX	CP-SS-C6AE-XX	CF-SS-CTAE-XX	CS-SS-CTC6BAE-XX	CP-SS-C6AE-XX	CF-SS-CTAE-XX	CB-TE-U-XX
708B	55A	CS-SS-CTC6AE-XX	CP-SS-C6AE-XX	CF-SS-CTAE-XX	CS-SS-CTC6BAE-XX	CP-SS-C6AE-XX	CF-SS-CTAE-XX	CB-TE-U-XX

XT Motor	Current Rating	ServoSTAR (Resolver based)							
		XT Threaded type connectors							
		Resolver			Resolver/Brake				
		Cable set	Motor cable	Feedback	Cable set	Motor cable	Feedback	Brake	
1502A	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
1502B	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
1504A	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
1504B	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
1506A	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
1506B	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
302A	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
302B	6A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
304A	3A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
304B	6A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
306A	6A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
306B	10A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
308A	6A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
308B	10A	CS-SS-RHA1HE-XX	CP-SS-A1HE-XX	CF-SS-RHAE-XX	CS-SS-RHAAHBE-XX	CP-SS-AAHBE-XX	CF-SS-RHAE-XX	N/A	
502A	3A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
502B	6A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
504A	6A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
504B	10A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
506A	10A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
506B	20A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
508A	N/A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
508B	N/A	CS-SS-RTA27E-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CS-SS-RTA27BE-XX	CP-SS-A27E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
701A	10A	CS-SS-RTA28E-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CS-SS-RTA28BE-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
701B	20A	CS-SS-RTA28E-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CS-SS-RTA28BE-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
702A	20A	CS-SS-RTA28E-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CS-SS-RTA28BE-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
702B	30A	CS-SS-RTB48E-XX	CP-SS-B48E-XX	CF-SS-RTAE-XX	CS-SS-RTB48BE-XX	CP-SS-B48E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
704A	20A	CS-SS-RTA28E-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CS-SS-RTA28BE-XX	CP-SS-A28E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
704B	30A	CS-SS-RTB48E-XX	CP-SS-B48E-XX	CF-SS-RTAE-XX	CS-SS-RTB48BE-XX	CP-SS-B48E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
706A	30A	CS-SS-RTB48E-XX	CP-SS-B48E-XX	CF-SS-RTAE-XX	CS-SS-RTB48BE-XX	CP-SS-B48E-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
706B	55A	CS-SS-RTC6AE-XX	CP-SS-C6AE-XX	CF-SS-RTAE-XX	CS-SS-RTC6BAE-XX	CP-SS-C6AE-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
708A	55A	CS-SS-RTC6AE-XX	CP-SS-C6AE-XX	CF-SS-RTAE-XX	CS-SS-RTC6BAE-XX	CP-SS-C6AE-XX	CF-SS-RTAE-XX	CB-TE-U-XX	
708B	55A	CS-SS-RTC6AE-XX	CP-SS-C6AE-XX	CF-SS-RTAE-XX	CS-SS-RTC6BAE-XX	CP-SS-C6AE-XX	CF-SS-RTAE-XX	CB-TE-U-XX	

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GoldLINE Cable Documentation for ServoSTAR Amplifiers

The following tables contain references to assembly documentation for cables used with ServoSTAR amplifiers. You may note that there is some documentation that is dual purpose and used in the previous “GC” series of cables. Also these tables contain far fewer variations than the “GC” series. Partly due to the maturity of the “GC” line, approximately 10 years (at the time of this writing), vs. 2-3 years for the “CS” families.

Complexity of the drawings vary as some of these drawings were still intended to be used in installation manuals. However when looking at the drawings for the XT series it can be noted that the multi sheet drawing has been dropped, and that the “C” size format has been adopted, since it allows more room to work in CAD and it reduces conveniently to an “A” size sheet when needed. Also, with the XT series, we evolved into “CE” style connector backshells (EMI/RFI), complex assembly procedures are now separate, and the drawings tend to take on a more generic format.

B & M Standard Assembly Reference Documentation

Bayonet Type					
Motor Designator	Power	Feedback			
		Resolver	Resolver /brake	Encoder	Encoder/Brake
M1	A-93421	A-96687	B-97247	A-96760	A-96760
M2A	A-93421	A-96687	B-97247	N/A	N/A
M2B	A-93421	A-96687	B-97247	N/A	N/A
M4A	A-93421	A-96687	B-97247	N/A	N/A
M4B	A-93414	A-96687	B-97247	N/A	N/A
M6A	A-93421	A-96687	B-97247	N/A	N/A
M6B	A-93414	A-96687	B-97247	N/A	N/A
M8A	A-93414	A-96687	B-97247	N/A	N/A
M8B	A-93414	A-96687	B-97247	N/A	N/A

B & M Standard Assembly Reference Documentation

Threaded Type					
Motor Designator	Power	Feedback			
		Resolver	Resolver /brake	Encoder	Encoder /brake
M1	N/A	A-97060	B-97248	N/A	N/A
M2A	N/A	A-97060	B-97248	A-96761	C-97669
M2B	N/A	A-97060	B-97248	A-96761	C-97669
M4A	A-93538	A-97060	B-97248	A-96761	C-97669
M4B	A-93539	A-97060	B-97248	A-96761	C-97669
M6A	A-93538	A-97060	B-97248	A-96761	C-97669
M6B	A-93539	A-97060	B-97248	A-96761	C-97669
M8A	A-93539	A-97060	B-97248	A-96761	C-97669
M8B	A-93539	A-97060	B-97248	A-96761	C-97669

Note: BE-20X motors use 40X size power connectors, Check motor construction for correct mating cable set!

B & M Special Assembly Documentation

	Special characteristic
A-97469	Resolver cable, unterminated at motor end, special length
B-97470	Drive Encoder output cable, unterminated, special length
A-97023	Resolver cable, unterminated at motor end, standard lengths.
A-97024	Motor power, M1, M2A, M2B, M4A, Unterminated at motor end, standard lengths.
B-97671	Resolver/Tach cable, Screw type, M20-80, Standard Lengths
C-97747	Encoder cable, unterminated at motor end, std lengths
C-97928	Motor, Threaded, M40A, Special Lengths
C-97929	Motor, Threaded, M4B, M6B, M8A, Special Lengths
C-97930	Resolver, Threaded, M40X-M80, Special Lengths
C-97931	Motor, Threaded connector on both ends, M4A
C-97932	Motor, Threaded connector on both ends, M4B, M6B, M8A
C-97933	Resolver, Threaded connector on both ends, M4X-M8X
A-98167	Resolver, Unterminated at motor, molded drive end, purchased part
A-98168	Resolver/Brake, Unterminated at motor, molded drive end, purchased part
A-98257	Encoder, Unterminated at motor, molded drive end, purchased part, Single Ended Halls
A-98308	Encoder, Unterminated at motor, molded drive end, purchased part, Differential Halls

XT Standard Assembly Reference Documentation

For 230V ServoSTAR Drives

Threaded Type (Euro & MS)					
Motor	Power	Power/Brake	Feedback		
			Resolver	Encoder	Brake
150X	C-98249	C-98250	C-98236	C-98235	N/A
30X (<12A)	C-98249	C-98250	C-98236	C-98235	N/A
30X (<20A)	C-98285	C-98284	C-98236	C-98235	N/A
50X	C-98228	N/A	C-98229	C-98231	C-98238
70X	C-98228	N/A	C-98229	C-98231	C-98238

XT Standard Assembly Reference Documentation

For 460V ServoSTAR Drives

Threaded Type (Euro & MS)					
Motor	Power	Power/Brake	Feedback		
			Resolver	Encoder	Brake
150X (<12A)	C-98251	C-98251	C-98248	N/A	N/A
30X (<12A)	C-98251	C-98251	C-98248	N/A	N/A
30X (<24A)	C-98252	C-98252	C-98248	N/A	N/A
50X	N/A	N/A	N/A	N/A	N/A
70X	N/A	N/A	N/A	N/A	N/A

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SilverLINE Cable Model Numbering for ServoSTAR and SilverLINE Amplifiers

As I stated earlier, this section has been separated from the main “CS” model numbering section. There are very few selections and ultimately only a few valid model numbers that have been or can be documented.

SILVERLINE MOTORS/SERVOSTAR & SILVERLINE AMPLIFIER

CABLE SET MODEL NUMBER SYSTEM

EXAMPLE: $\frac{CS}{AA} - \frac{SL}{BB} - \frac{C}{C} \frac{S}{D} \frac{A}{E} \frac{1}{F} \frac{S}{G} \frac{Q}{H} - \frac{03}{II}$

AA - Cable set

CS - Cable set

BB - Amplifier Family

SL - **SilverLine**

SS - ServoSTAR

C - Primary Feedback

C - Commutation Encoder (using single ended Halls)

D - Motor End- Feedback connector

S - **SilverLine**(CPC Bayonet type)

U - Unterminated

E - Amplifier End- connection

A - ServoSTAR: 3, 6, 10, & 20 AMP

D - RO /ROL

E - BJRL

U - Unterminated

F - Wire size-Power cable

1 - 14 AWG: SL(H-23X, H-34X)

G - Motor End-Power connector type

S - **SilverLine** H series (CPC)

U - Unterminated

H - THERMAL PROTECTION

Q - With Thermistor

R - Without Thermistor

II - LENGTH IN METERS - 3 Meter increments, 42 meter max.

- 03, 06, 09, etc.

Note: Three standard part numbers;

CS-SS-CSA1SQ-XX, CS-SL-CSD1SQ-XX, CS-SS-CSE1SQ-XX

INDIVIDUAL CABLE MODEL NUMBER SYSTEM

Motor Feedback Cables

EXAMPLE: $\frac{CF}{AA} - \frac{SL}{BB} - \frac{S}{C} \frac{A}{D} \frac{Q}{E} - \frac{03}{FF}$

AA - Cable set

CF - Feedback Cable

BB - Amplifier Family

SL - **SilverLine**

SS - ServoSTAR

C - Motor End- Feedback connector

S - **SilverLine**(CPC Bayonet type)

U - Unterminated

D - Amplifier End- connection

A - ServoSTAR: 3, 6, 10, & 20 AMP

D - RO / ROL

E - BJRL

U - Unterminated

E - THERMAL PROTECTION

Q - With Thermistor

R - Without Thermistor

FF - LENGTH IN METERS - 3 Meter increments, 42 meter max.
- 03, 06, 09, etc.

INDIVIDUAL CABLE MODEL NUMBER SYSTEM

Motor Power Cables

EXAMPLE: $\frac{CP}{AA} - \frac{SL}{BB} - \frac{A}{C} \frac{1}{D} \frac{S}{E} - \frac{03}{FF}$

AA - Cable set

CP - Motor Power Cable

BB - Amplifier Family

SL - **SilverLine**

SS - ServoSTAR

C - Amplifier End- connection

A - ServoSTAR: 3, 6, 10, & 20 AMP

D - RO/ROL

E - BJRL

U - Unterminated

D - Wire size-Power cable

1 - 14 AWG: SL(H-23X, H-34X)

E - Motor End-Power connector type

S - **SilverLine** H series (CPC)

U - Unterminated

FF - LENGTH IN METERS - 3 Meter increments, 42 meter max.
- 03, 06, 09, etc.

Standard Assembly Reference Documentation

For Commutation Encoder Feedback

Motor	ServoSTAR		RO/ROL		BJRL	
	Power	Feedback	Power	Feedback	Power	Feedback
“H” series (-0802)	B-97400	B-97324	B-97299	B-97307	B-97299	B-97280

PLATINUM MOTORS - SERVOSTAR AMPLIFIER

CABLE SET MODEL NUMBER SYSTEM

EXAMPLE: $\frac{CS}{AA} - \frac{SS}{BB} - \frac{R}{C} \frac{P}{D} \frac{A}{E} \frac{1}{F} \frac{1}{G} \frac{R}{H} - \frac{03}{II}$

AA - Cable set

CS - Cable set

BB - Amplifier Family

SS - ServoSTAR

C - Primary Feedback

C - Commutation Encoder

R - Resolver

E - Encoder

D - Motor End- Feedback connector

P - Platinum XT (CPC, Bayonet type)

U - Unterminated

E - Amplifier End- connection

A - ServoSTAR: 10, & 20 AMP

F - Wire size-Power cable

1 - 14 AWG: Platinum (U9BL-C, U12BL-C, U16BL-D)

G - Motor End-Power connector type

1 - Platinum XT bayonet connector

U - Unterminated

H - Thermal Protection

Q - With thermistor

R - Without thermistor

II - Cable length in meters - 3 meter increments only

XX - i.e. 03,06,09, etc.

Encoder feedback 30 meter maximum length.

Resolver feedback, 75 meter maximum length.

INDIVIDUAL CABLE MODEL NUMBER SYSTEM
Feedback Cables

EXAMPLE: $\frac{CF}{AA} - \frac{SS}{BB} - \frac{R}{C} \frac{P}{D} \frac{A}{E} \frac{Q}{F} - \frac{03}{GG}$

AA - **Cable set**

CF - Feedback Cable

BB - **Amplifier Family**

SS - ServoSTAR

C - **Primary Feedback**

C - Commutation Encoder

R - Resolver

E - Encoder

D - **Motor End-** Feedback connector

P - Platinum XT (CPC, Bayonet type)

U - Unterminated

E - **Amplifier End-** connection

A - ServoSTAR: 10,20 AMP

F - **Thermal Protection**

Q - With thermistor

R - Without thermistor

GG - **Cable length in meters** - 3 meter increments only

XX - i.e. 03,06,09, etc.

Encoder feedback 30 meter maximum length.

Resolver feedback, 75 meter maximum length

REFERENCE ASSEMBLY DRAWING : A-97110

INDIVIDUAL CABLE MODEL NUMBER SYSTEM
Motor Power Cables

EXAMPLE: $\frac{CP}{AA} - \frac{SS}{BB} - \frac{A}{C} \frac{1}{D} \frac{1}{E} - \frac{03}{FF}$

AA - Cable set

CP - Motor Power Cable

BB - Amplifier Family

SS - ServoSTAR

C - Amplifier End- connection

A - ServoSTAR: 10, & 20 AMP

D - Wire size-Power cable

1 - 14 AWG: Platinum (U9BL-C, U12BL-C, U16BL-D)

E - Motor End-Power connector type

1 - Platinum XT bayonet connector

U - Unterminated

FF - Cable length in meters - 3 meter increments only

XX - i.e. 03,06,09, etc.

REFERENCE ASSEMBLY DRAWING : A-97111

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Motor Receptacle and Connector Tables

This first Table contains information for GoldLINE series motors regarding the receptacle on the motor and the mating connector that is either supplied separately on motors with mating connectors and also the part used when constructing cables internally. This table does not reflect the introduction of CE style backshells or the newer part numbers of plugs that replaced them. It is anticipated that eventually this entire list will become obsolete as we move toward the new part number structure.

Following the first table are other tables containing the newer parts and a conversion table that cross references both types of parts.

Motor Frame Size	Device	Connector Style	Shell Size	Receptacle P/N	Vendor	Koll. P/N	Wire Ga.	Mating Plug P/N	Pin type	Vendor	Koll. P/N	Wire Ga.	Cable Dia.	Thread pitch	Finish	
M1,M2A	POWER	PT BAYONET	14	851-02R14-5P50 L/C (MS-3112E-14-5P)	SOURIAU	A-42839-145	18-14	851-06RX14-5S50L	CRIMP	SOURIAU	A-84878	18-14	0.47	0.8125X20	CADMIUM	CABLE
								851-06EC14-5S50	SOLDER	SOURIAU	A-42867-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								MS3116F14-5S	SOLDER	MS	A-42867-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								PT06E14-5S(SR)	SOLDER	BENDIX	A-42867-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								KPT0614-5S	SOLDER	CANNON	A-42867-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								851-06JC14-5S50	SOLDER	SOURIAU	A-42868-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								MS3116J14-5S	SOLDER	MS	A-42868-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								PT06J14-5S	SOLDER	BENDIX	A-42868-145	18-14	-	0.8125X20	CADMIUM	MOTOR
								KPT06J14-5S	SOLDER	CANNON	A-42868-145	18-14	-	0.8125X20	CADMIUM	MOTOR
M1	RESOLVER	PT BAYONET	14	851-02R14-19P50 L/C	SOURIAU	A-42839-1419	24-18	851-06RX14-19S50-L	CRIMP	SOURIAU	A-84822	24-18	.345-.437	0.8125X20	CADMIUM	CABLE
M2A,M2B								851-06EC14-19S50	SOLDER	SOURIAU	A-42867-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
M4A,M4B								MS3116F14-19S	SOLDER	MS	A-42867-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
M6A,M6B								PT06E14-19S(SR)	SOLDER	BENDIX	A-42867-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
M8A,M8B								KPT06F14-19S	SOLDER	CANNON	A-42867-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
								851-06JC14-19S50	SOLDER	SOURIAU	A-42868-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
								MS3116J14-19S	SOLDER	MS	A-42868-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
								PT06J14-19S	SOLDER	BENDIX	A-42868-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
								KPT06J14-19S	SOLDER	CANNON	A-42868-1419	24-18	-	0.8125X20	CADMIUM	MOTOR
M1	APP/RES	PT BAYONET	14	851-02R14-12P50 L/C	SOURIAU	A-42839-1412	24-18/18-14	851-06EC14-12S50	SOLDER	SOURIAU	A-42867-1412	24-18/18-14	.345-.437	0.8125X20	CADMIUM	MOTOR
								MS3116F14-12S	SOLDER	MS	A-42867-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
								PT06E14-12S(SR)	SOLDER	BENDIX	A-42867-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
								KP06F14-12S	SOLDER	CANNON	A-42867-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
								851-06JC14-12S50	SOLDER	SOURIAU	A-42868-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
								MS3116J14-12S	SOLDER	MS	A-42868-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
								PT06J14-12S	SOLDER	BENDIX	A-42868-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
								KPT06J14-12S	SOLDER	CANNON	A-42868-1412	24-18/18-14	-	0.8125X20	CADMIUM	MOTOR
BE1/ME1	ENCODER	PT BAYONET	14	851-02R14-19PW50 L/C	SOURIAU	A-65806-1419	24-18	851-06RX14-19SW50-L	CRIMP	SOURIAU	A-96762	24-18	0.42	0.8125X20	CADMIUM	CABLE
M2B,M4A	POWER	REVERSE BAYONET	18	CIR 020R-18-10P-F80	VEAM	A-43171	14-12	CIR-06LCF-18-10S-F80-38	CRIMP	VEAM	A-84818	12	0.53	1.00X20	CADMIUM	CABLE
	POWER		18	GTC 02R-18-10P	BENDIX	A-43171	14-12	CIR06F-18-10S	SOLDER	VEAM	A-43173	12	-	1.00X20	CADMIUM	MOTOR
								GTS06F-18-10S	SOLDER	BENDIX	A-43173	12	-	1.00X20	CADMIUM	MOTOR
								CA3106F18-10SB	SOLDER	CANNON	A-43173	12	-	1.00X20	CADMIUM	MOTOR
M4B	POWER	REVERSE BAYONET	22	020R-22-22P-F80	VEAM	A-43633	10-8	CIR06SLCFZ-24-22-22S-F80-T9	CRIMP	VEAM	A-93552	8	0.75	1.25X18	CADMIUM	CABLE
M6B	POWER	REVERSE BAYONET	22	GTC 02R-22-22P	BENDIX	A-43633	10-8	CIR06F-22-22S	SOLDER	VEAM	A-43642	8	-	1.25X18	CADMIUM	MOTOR
								GTS 06F-22-22S	SOLDER	BENDIX	A-43642	8	-	1.25X18	CADMIUM	MOTOR
								CA3106F22-22SB	SOLDER	CANNON	A-43642	8	-	1.25X18	CADMIUM	MOTOR
M6A	POWER	REVERSE BAYONET	22	020R-22-22P-F80	VEAM	A-43633	10-8	CIR06SLF-22-22S-F80-T9	CRIMP	VEAM	A-93337	12	0.53	1.25X18	CADMIUM	CABLE
	POWER	REVERSE BAYONET	22	GTC 02R-22-22P	BENDIX	A-43633	10-8	CIR06F-22-22S	SOLDER	VEAM	A-43642	8	-	1.25X18	CADMIUM	MOTOR
								GTS 06F-22-22S	SOLDER	BENDIX	A-43642	8	-	1.25X18	CADMIUM	MOTOR
								CA3106F22-22SB	SOLDER	CANNON	A-43642	8	-	1.25X18	CADMIUM	MOTOR
M8A	POWER	REVERSE BAYONET	32	CIR 02R-32-17P	VEAM	A-43826	6-4	CIR06CFZ-32-17S-F80-B2	CRIMP	VEAM	A-93338	8	0.75	1.875X16	CADMIUM	CABLE
	POWER	REVERSE BAYONET	32	CA3102R32-17PB	BENDIX	A-43826	6-4	CIR06F-32-17S	SOLDER	VEAM	A-43828	4	-	1.875X16	CADMIUM	MOTOR
								GTS 06F-32-17S	SOLDER	BENDIX	A-43828	4	-	1.875X16	CADMIUM	MOTOR
								CA3106F32-17SB	SOLDER	CANNON	A-43828	4	-	1.875X16	CADMIUM	MOTOR
M8B	POWER	REVERSE BAYONET	32	CIR 02R-32-17P	VEAM	A-43826	6-4	CIR06CFZ-32-17S-F80-B2	CRIMP	VEAM	A-93338	4	1.065	1.875X16	CADMIUM	CABLE
	POWER	REVERSE BAYONET	32	CA3102R32-17PB	BENDIX	A-43826	6-4	CIR06F-32-17S	SOLDER	VEAM	A-43828	4	-	1.875X16	CADMIUM	MOTOR
								GTS 06F-32-17S	SOLDER	BENDIX	A-43828	4	-	1.875X16	CADMIUM	MOTOR
								CA3106F32-17SB	SOLDER	CANNON	A-43828	4	-	1.875X16	CADMIUM	MOTOR
BR-806(M8C)	POWER	REVERSE BAYONET	36	CIR020R-36-5P	VEAM	A-43827	2-0	CIR06F-36-5S	CRIMP	VEAM	A-43829	2-0	1.65-2.20	2.125X16	CADMIUM	MOTOR

Motor Frame Size	Device	Connector Style	Shell Size	Receptacle P/N	Vendor	Koll. P/N	Wire Ga.
M4A-M8B	RESOLVER	THREADED	22	CA3102E-22-14P-F80-F0	CANNON	A-41288-2214	24-18
	RESOLVER	THREADED	22	80-682-22-14P	BENDIX	A-41288-2214	
BE2/ME2 BE4/ME4, 6, 8	ENCODER	THREADED	22	CA3102E-22-14PW-F80-F0	CANNON	A-65308-2214	24-18
	ENCODER	THREADED	22	80-682-22-14G	BENDIX	A-65308-2214	
BE2/ME2	POWER	THREADED	18	CA3102E-18-10P-F80-F0	CANNON	A-41288-1810	14-12
	POWER	THREADED	18	80-682-18-10P	BENDIX	A-41288-1810	
M4A	POWER	THREADED	18	CA3102E-18-10P-F80-F0	CANNON	A-41288-1810	
	POWER	THREADED	18	80-682-18-10P	BENDIX	A-41288-1810	14-12
M6A	POWER	THREADED	22	CA3102E-22-22P-F80-F0	CANNON	A-41288-2222	10-8
	POWER	THREADED	22	80682-22-22P	BENDIX	A-41288-2222	
M4B,M6B,M8 A	POWER	THREADED	22	CA3102E-22-22P-F80-F0	CANNON	A-41288-2222	10-8
	POWER	THREADED	22	80682-22-22P	BENDIX	A-41288-2222	
M8B	POWER	THREADED	32	MS3102E-32-17P	CANNON	A-63121-3217	6-4

Mating Plug P/N	Pin type	Vendor	Koll. P/N	Wire Ga.	Cable Dia.	Thread pitch	Finish	SUPPLIED
MS3106E-22-14S	CRIMP	---->	A-93613-001	22	.345-.437	1.25X18	CADMIUM	CABLE
MS-3106E-22-14S/10-36233-223	SOLDER		G-10158	22	-	1.25X18	CADMIUM	MOTOR
MS3106E-22-14S-W	CRIMP	---->	A-93613-005	22	0.45	1.00X18	CADMIUM	CABLE
MS3106E-18-10S	CRIMP	---->	A-93613-003	12	0.53	1.00X20	CADMIUM	CABLE
MS3106E-18-10S/10-36233-183	SOLDER	BENDIX	A-63229	14-12		1.00X20	CADMIUM	MOTOR
MS3106E-18-10S	CRIMP	---->	A-93613-003	12	.53-.61	1.00X20	CADMIUM	CABLE
MS3106E-18-10S/10-36233-183	SOLDER	BENDIX	A-63229	14-12		1.00X20	CADMIUM	MOTOR
MS3106E-22-22S	CRIMP	---->	A-93613-004	12	0.53	1.25X18	CADMIUM	CABLE
MS-3106E-22-22S	SOLDER	BENDIX	A-63197	12	-	1.25X18	CADMIUM	MOTOR
MS3106E-22-22S	CRIMP	---->	A-93613-006	8	0.75	1.25X18	CADMIUM	CABLE
MS-3106E-22-22S/10-36233-223	SOLDER	BENDIX	A-63197		-	1.25X18	CADMIUM	MOTOR
VS3106CFZ32-17S-F80-B2	CRIMP	VEAM	A-97133	4	1.065	1.875X16	CADMIUM	CABLE
MS3106E-32-17S/10-36233-173	SOLDER	BENDIX	A-63199				CADMIUM	MOTOR

T150X	RESOLVER	THREADED (Euro)	N/A	SEAB12ANNNN00002	Interconnectron	A-69250	24-18
T150X	ENCODER	THREADED (Euro)	N/A	SEAB17ANNNN00002	Interconnectron	A-69249	24-18
T150X	POWER	THREADED (Euro)	N/A	LEAB08ANNNN00002	Interconnectron	A-69251	18-14
T30X	ENCODER	THREADED (Euro)	N/A	SFMB17GNNNN000	Interconnectron	A-69010	24-18
T30X	RESOLVER	THREADED (Euro)	N/A	SFMB12TNNNN000	Interconnectron	A-69031	24-18
T30X	POWER	THREADED (Euro)	N/A	LEOB08KNNNN0000	Interconnectron	A-68808	18-14 12-8
T5X,T7X	ENCODER	THREADED	20	CA3102E20-29P-F80-F0	CANNON	A-41288-2029	24-18
				80-682-20-29P	BENDIX	A-41288-2029	
T5A	POWER	THREADED	18	CA3102E-18-10P-F80-F0	CANNON	A-41288-1810	12
				80-682-18-10P	BENDIX	A-41288-1810	
T7A	POWER	THREADED	22	CA3102E-22-22P-F80-F0	CANNON	A-41288-2222	10-8
				80682-22-22P	BENDIX	A-41288-2222	
T7B	POWER	THREADED	24	CA3102E24-10P-F80-F0	CANNON	A-41288-2410	10-8
				80-682-24-10P	BENDIX	A-41288-2410	
T7C	POWER	THREADED	32	MS3102E-32-17P	CANNON	A-63121-3217	2-0
T5X,T7X	BRAKE	THREADED	10	CA3102E10-3P-F80-F0	CANNON	A-41288-103	24-18
				80-68210-3P	BENDIX	A-41288-103	

UC17S1N8A80DU	CRIMP	Coninvers	A-69279	24-18	14.5MM	N/A	NICKLE	BOTH
SPNA12SNNNN169	CRIMP	Interconnectron	A-69033	24-18	12MM	N/A	NICKLE	BOTH
LPRA08BNNNN170	CRIMP	Interconnectron	A-69012	18-14	14.5MM	N/A	NICKLE	BOTH
LPLA08LNNNN213	CRIMP	Interconnectron	A-69276	12-8	18.5 MM	N/A	NICKLE	BOTH
UC17S1N8A80DU	CRIMP	Coninvers	A-69279	24-18	14.5MM	N/A	NICKLE	BOTH
SPNA12SNNNN169	CRIMP	Interconnectron	A-69033	24-18	12MM	N/A	NICKLE	BOTH
LPRA08BNNNN170	CRIMP	Interconnectron	A-69012	18-14	14.5MM	N/A	NICKLE	BOTH
LPLA08LNNNN213	CRIMP	Interconnectron	A-69276	12-8	18.5 MM	N/A	NICKLE	BOTH
75-06820-29S	CRIMP	BENDIX		24-18	0.42	1.125X18	CADMIUM	
MS3106A-20-29S/10-36233-203	SOLDER	BENDIX	G-10081		-		CADMIUM	
MS3106E-18-10S	CRIMP	---->	A-93613-003	12	0.53	1.00X20	CADMIUM	
MS3106E-18-10S/10-36233-183	SOLDER	BENDIX	A-63229		-		CADMIUM	
MS3106E-22-22S	CRIMP	---->	A-93613-004	12	0.53	1.250X18	CADMIUM	
MS-3106E-22-22S/10-36233-223	SOLDER	BENDIX	A-63197		-		CADMIUM	
75-06824-10S	CRIMP	BENDIX		8	0.75	1.375X18	CADMIUM	
MS3106A-24-10S/10-36233-243	SOLDER	BENDIX	G-15904		-		CADMIUM	
VS3106CFZ32-17S-F80-B2	CRIMP	VEAM	A-97133	4	1.065	1.875X18	CADMIUM	
MS3106E-32-17S/10-36233-173	SOLDER	BENDIX	A-63199		-		CADMIUM	
MS3106E-10SL-3S/10-36233-103	SOLDER	BENDIX	G-11034	24-18	-	0.5625X24	CADMIUM	

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Simplified Cable chart for B & M Series

The following chart is a simplified version, referencing the generic size, connector part number, cable material used and assembly drawing. This chart is pre “CE”, and for the older style “GC” and “CS” cables.

Feedback cable information

Motor	Resolver Receptacle	Mating cable connector	Wire guage	Wire part #	type	BASE DWG FOR SS
B-10X, ALL	A-42839-1419	A-84822	22	A-81948	BAYONET	A-96687
B-20X, ALL	A-42839-1419	A-84822	22	A-81948	BAYONET	A-96687
B-40X, ALL	A-42839-1419	A-84822	22	A-81948	BAYONET	A-96687
B-60X, ALL	A-42839-1419	A-84822	22	A-81948	BAYONET	A-96687
B-80X, ALL	A-42839-1419	A-84822	22	A-81948	BAYONET	A-96687
B-10X, ALL	N/A	N/A	N/A	N/A	SCREW	N/A
B-20X, ALL	N/A	N/A	N/A	N/A	SCREW	N/A
B-40X, ALL	A-41288-2214	A-93613-001	22	A-81948	SCREW	A-97060
B-60X, ALL	A-41288-2214	A-93613-001	22	A-81948	SCREW	A-97060
B-80X, ALL	A-41288-2214	A-93613-001	22	A-81948	SCREW	A-97060
B-10X, ALL	A-42839-1419	A-84822	22	A-96027-004	BAYONET	B-97247
B-20X, ALL	A-42839-1419	A-84822	22	A-96027-004	BAYONET	B-97247
B-40X, ALL	A-42839-1419	A-84822	22	A-96027-004	BAYONET	B-97247
B-60X, ALL	A-42839-1419	A-84822	22	A-96027-004	BAYONET	B-97247
B-80X, ALL	A-42839-1419	A-84822	22	A-96027-004	BAYONET	B-97247
B-10X, ALL	N/A	N/A	N/A	N/A	SCREW	N/A
B-20X, ALL	A-41288-2214	A-93613-001	22	A-96027-004	SCREW	B-97248
B-40X, ALL	A-41288-2214	A-93613-001	22	A-96027-004	SCREW	B-97248
B-60X, ALL	A-41288-2214	A-93613-001	22	A-96027-004	SCREW	B-97248
B-80X, ALL	A-41288-2214	A-93613-001	22	A-96027-004	SCREW	B-97248

Power cable information

Motor	Motor Receptacle	Mating cable connector	Wire gauge	Wire part #	type	BASE DWG FOR SS
B-10X, All	A-42839-145	A-84878	14	A-93553-006	BAYONET	A-93421
B-10X, All	N/A	N/A	N/A	N/A	SCREW	N/A
B-20X, <12A	A-42839-145	A-84878	14	A-93553-006	BAYONET	A-93421
B-20X, <12A	N/A	N/A	N/A	N/A	SCREW	N/A
B-20X, >12A	A-43171	A-84818	12	A-93553-003	BAYONET	A-93421
B-20X, >12A	N/A	N/A	N/A	N/A	SCREW	N/A
BE-20X, <12A	A-41288-1810	A-93613-003	12	A-93553-003	SCREW	A-93538
BE-20X, >12A	N/A	N/A	N/A	N/A	N/A	N/A
B-40X, <27A	A-43171	A-84818	12	A-93553-003	BAYONET	A-93421
B-40X, <27A	A-41288-1810	A-93613-003	12	A-93553-003	SCREW	A-93538
B-40X, >27A	A-43633	A-93552	8	A-93553-001	BAYONET	A-93414
B-40X, >27A	A-41288-2222	A-93613-004	8	A-93553-001	SCREW	A-93539
B-60X, <27A	A-43633	A-93337	12	A-93553-003	BAYONET	A-93421
B-60X, >27A	A-43633	A-93552	8	A-93553-001	BAYONET	A-93414
B-60X, <27A	A-41288-2222	A-93613-004	12	A-93553-003	SCREW	A-93538
B-60X, >27A	A-41288-2222	A-93613-004	8	A-93553-001	SCREW	A-93539
B-80X, <46 A	A-43826	A-93338	8	A-93553-001	BAYONET	A-93414
B-80X, <46 A	A-41288-2222	A-93613-004	8	A-93553-001	SCREW	A-93539
B-80X, >46 A	A-43826	A-93338	4	A-93553-005	BAYONET	A-93414
B-80X, >46 A	A-63121-3217	A-96487/A-97133	4	A-93553-005	SCREW	A-93539

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Conversion Table for Original connectors to New format “CE” style

With the introduction of the XT product line and the directive of having the product CE compliant, a new style of Backshell was chosen. In order to implement this, the entire connector structure was revisited and the Plug and Backshell was now to be purchased as separate components. The intention was that initially to be used on XT and then eventually flushed into the entire cable system. The following table references a connector part number that is used on the original designs and ties it to the new plug and Backshell part. The clamp sizing on the Backshell was chosen Based on all the new flexible design cable introduced at the same point in time.

This table only applies to connectors used on B & M series Motors.

Old	Old pins	Old Fillers	Motor	Device	Style 1	Style 2	Plug	Pins	Filler	Backshell	CE option	Wire Ga.	Cable Dia
A-42867-1419	N/A	N/A	M1A-M8B	Resolver	Bayonet	Solder	A-98027-1419	N/A	N/A	A-69147-1408	NO	24-18	0.5
A-42867-145	N/A	N/A	M1A,M2A	Power	Bayonet	Solder	A-98027-145	N/A	N/A	A-69147-1408	NO	14	0.5
A-42867-1412	N/A	N/A	M1A-M8B	App-Res	Bayonet	Solder	A-98027-1412	N/A	N/A	A-69147-1408	NO	24-18	0.5
N/A	N/A	N/A	M1A	Encoder	Bayonet	Solder	A-98027-1419W	N/A	N/A	A-69147-1408	NO	24-18	0.5
A-84822	A-84823-002	A-84823-001	M1A-M8B	Resolver	Bayonet	Crimp	A-98026-1419	A-84823-002	A-84823-001	A-69147-1408	NO	24-18	0.5
A-84878	A84879-002	A-84879-001	M1A,M2A	Power	Bayonet	Crimp	A-98026-145	A-84879-002	A-84879-001	A-69147-1408	NO	14	0.5
N/A	A-84823-002	A-84823-001	M1A-M8B	App-Res	Bayonet	Crimp	A-98026-1412	A-84823-002	A-84823-001	A-69147-1408	NO	24-18	0.5
A-96762	A-84823-002	A-84823-001	M1A	Encoder	Bayonet	Crimp	A-98026-1419W	A-84823-002	A-84823-001	A-69147-1408	NO	24-18	0.5
N/A	N/A	N/A	M1A-M8B	Resolver	Bayonet	Solder	A-98027-1419	N/A	N/A	A-69060-1408	YES	24-18	0.5
N/A	N/A	N/A	M1A,M2A	Power	Bayonet	Solder	A-98027-145	N/A	N/A	A-69060-1408	YES	14	0.5
N/A	N/A	N/A	M1A-M8B	App-Res	Bayonet	Solder	A-98027-1412	N/A	N/A	A-69060-1408	YES	24-18	0.5
N/A	N/A	N/A	M1A	Encoder	Bayonet	Solder	A-98026-1419W	A-84823-002	A-84823-001	A-69060-1408	YES	24-18	0.5
N/A	A-84823-002	A-84823-001	M1A-M8B	Resolver	Bayonet	Crimp	A-98026-1419	A-84823-002	A-84823-001	A-69060-1408	YES	24-18	0.5
N/A	A84879-002	A-84879-001	M1A,M2A	Power	Bayonet	Crimp	A-98026-145	A84879-002	A-84879-001	A-69060-1408	YES	14	0.5
N/A	A-84823-002	A-84823-001	M1A-M8B	App-Res	Bayonet	Crimp	A-98026-1412	A-84823-002	A-84823-001	A-69060-1408	YES	24-18	0.5
N/A	A-84823-002	A-84823-001	M1A	Encoder	Bayonet	Crimp	A-98026-1419W	A-84823-002	A-84823-001	A-69060-1408	YES	24-18	0.5
A-43173	N/A	N/A	M2B,M4A	Power	Bayonet	Solder	A-98031-1810	N/A	N/A	A-69148-1612	NO	12	0.57
A-84818	SWC	N/A	M2B,M4A	Power	Bayonet	Crimp	A-98030-1810	SWC	N/A	A-69148-1612	NO	12	0.57
N/A	N/A	N/A	M2B,M4A	Power	Bayonet	Solder	A-98031-1810	N/A	N/A	A-69061-1612	YES	12	0.57
N/A	SWC	N/A	M2B,M4A	Power	Bayonet	Crimp	A-98030-1810	SWC	N/A	A-69061-1612	YES	12	0.57
A-43642	N/A	N/A	M4B,M6B	Power	Bayonet	Solder	A-98031-2222	N/A	N/A	A-69149-2016	NO	8	0.835
A-93552	SWC	N/A	M4B,M6B	Power	Bayonet	Crimp	A-98030-2222	SWC	N/A	A-69149-2016	NO	8	0.835
N/A	N/A	N/A	M4B,M6B	Power	Bayonet	Solder	A-98031-2222	N/A	N/A	A-69061-2016	YES	8	0.835
N/A	SWC	N/A	M4B,M6B	Power	Bayonet	Crimp	A-98030-2222	SWC	N/A	A-69061-2016	YES	8	0.835
A-43642	N/A	N/A	M6A	Power	Bayonet	Solder	A-98031-2222	N/A	N/A	A-69148-2012	NO	12	0.57
A-93337	SWC	N/A	M6A	Power	Bayonet	Crimp	A-98030-2222	SWC	N/A	A-69148-2012	NO	12	0.57
N/A	N/A	N/A	M6A	Power	Bayonet	Solder	A-98031-2222	N/A	N/A	A-69061-2012	YES	12	0.57
N/A	SWC	N/A	M6A	Power	Bayonet	Crimp	A-98030-2222	SWC	N/A	A-69061-2012	YES	12	0.57
A-43828	N/A	N/A	M8A	Power	Bayonet	Solder	A-98031-3217	N/A	N/A	A-69149-2416	NO	8	0.835
A-93338	SWC	N/A	M8A	Power	Bayonet	Crimp	A-98030-3217	SWC	N/A	A-69149-2416	NO	8	0.835
N/A	N/A	N/A	M8A	Power	Bayonet	Solder	A-98031-3217	N/A	N/A	A-69061-2416	YES	8	0.835
N/A	SWC	N/A	M8A	Power	Bayonet	Crimp	A-98030-3217	SWC	N/A	A-69061-2416	YES	8	0.835
A-43828	N/A	N/A	M8B	Power	Bayonet	Solder	A-98031-3217	N/A	N/A	A-69150-2424	NO	4	1.32
A-93338	SWC	N/A	M8B	Power	Bayonet	Crimp	A-98030-3217	SWC	N/A	A-69150-2424	NO	4	1.32
N/A	N/A	N/A	M8B	Power	Bayonet	Solder	A-98031-3217	N/A	N/A	A-69062-2424	YES	4	1.32
N/A	SWC	N/A	M8B	Power	Bayonet	Crimp	A-98030-3217	SWC	N/A	A-69062-2424	YES	4	1.32
N/A	N/A	N/A	M8C	Power	Bayonet	Solder	N/A	N/A	N/A	N/A	NO	N/A	N/A
N/A	N/A	N/A	M8C	Power	Bayonet	Crimp	A-98030-365	SWC	N/A	A-69150-2628	NO	2	1.60
N/A	N/A	N/A	M8C	Power	Bayonet	Solder	N/A	N/A	N/A	N/A	YES	N/A	N/A
N/A	N/A	N/A	M8C	Power	Bayonet	Crimp	A-98030-365	SWC	N/A	A-69063-2628	YES	2	1.60

Old	Old pins	Old Fillers	Motor	Device	Style 1	Style 2	Plug	Pins	Filler	Backshell	CE option	Wire Ga.	Cable Dia
G-10158	N/A	N/A	M4A-M8B	Resolver	Threaded	Solder	A-98029-2214	N/A	N/A	A-69147-2008	NO	24-18	0.5
A-93613-001	A-93614-001	A-93615-001	M4A-M8B	Resolver	Threaded	Crimp	A-98028-2214	SWC	TBD	A-69147-2008	NO	24-18	0.5
N/A	N/A	N/A	M4A-M8B	Resolver	Threaded	Solder	A-98029-2214	N/A	N/A	A-69060-2008	YES	24-18	0.5
N/A	N/A	N/A	M4A-M8B	Resolver	Threaded	Crimp	A-98028-2214	SWC	TBD	A-69060-2008	YES	24-18	0.5
N/A	N/A	N/A	BE-2,-BE-8	Encoder	Threaded	Solder	A-98029-2214W	N/A	N/A	A-69148-2010	NO	24-18	0.65
A-93613-005	A-93614-001	A-93615-001	BE-2,-BE-8	Encoder	Threaded	Crimp	A-98028-2214W	SWC	TBD	A-69148-2010	NO	24-18	0.65
N/A	N/A	N/A	BE-2,-BE-8	Encoder	Threaded	Solder	A-98029-2214W	N/A	N/A	A-69061-2010	YES	24-18	0.65
N/A	N/A	N/A	BE-2,-BE-8	Encoder	Threaded	Crimp	A-98028-2214W	SWC	TBD	A-69061-2010	YES	24-18	0.65
G-11008	N/A	N/A	M4A-M8B	App Res	Threaded	Solder	A-98029-2033	N/A	N/A	A-69147-1810	NO	24-18	0.5
N/A	N/A	N/A	M4A-M8B	App Res	Threaded	Crimp	A-98028-2033	SWC	TBD	A-69147-1810	NO	24-18	0.5
N/A	N/A	N/A	M4A-M8B	App Res	Threaded	Solder	A-98029-2033	N/A	N/A	A-69060-1810	YES	24-18	0.5
N/A	N/A	N/A	M4A-M8B	App Res	Threaded	Crimp	A-98028-2033	SWC	TBD	A-69060-1810	YES	24-18	0.5
A-63229	N/A	N/A	M4A	Power	Threaded	Solder	A-98029-1810	N/A	N/A	A-69148-1612	NO	12	0.57
A-93613-003	A-93958-003	N/A	M4A	Power	Threaded	Crimp	A-98028-1810	SWC	N/A	A-69148-1612	NO	12	0.57
N/A	N/A	N/A	M4A	Power	Threaded	Solder	A-98029-1810	N/A	N/A	A-69061-1612	YES	12	0.57
N/A	N/A	N/A	M4A	Power	Threaded	Crimp	A-98028-1810	SWC	N/A	A-69061-1612	YES	12	0.57
A-63197	N/A	N/A	M6A	Power	Threaded	Solder	A-98029-2222	N/A	N/A	A-69148-2012	NO	12	0.57
A-93613-004	A-93614-004	N/A	M6A	Power	Threaded	Crimp	A-98028-2222	SWC	N/A	A-69148-2012	NO	12	0.57
N/A	N/A	N/A	M6A	Power	Threaded	Solder	A-98029-2222	N/A	N/A	A-69061-2012	YES	12	0.57
N/A	N/A	N/A	M6A	Power	Threaded	Crimp	A-98028-2222	SWC	N/A	A-69061-2012	YES	12	0.57
A-63197	N/A	N/A	M4B,M6B,M	Power	Threaded	Solder	A-98029-2222	N/A	N/A	A-69149-2016	NO	8	0.835
A-93613-006	A-93614-004	N/A	M4B,M6B,M	Power	Threaded	Crimp	A-98028-2222	SWC	N/A	A-69149-2016	NO	8	0.835
N/A	N/A	N/A	M4B,M6B,M	Power	Threaded	Solder	A-98029-2222	N/A	N/A	A-69061-2016	YES	8	0.835
N/A	N/A	N/A	M4B,M6B,M	Power	Threaded	Crimp	A-98028-2222	SWC	N/A	A-69061-2016	YES	8	0.835
A-63199	N/A	N/A	M8B	Power	Threaded	Solder	A-98029-3217	N/A	N/A	A-69150-2424	NO	4	1.32
A-97133	SWC	N/A	M8B	Power	Threaded	Crimp	A-98028-3217	SWC	N/A	A-69150-2424	NO	4	1.32
N/A	N/A	N/A	M8B	Power	Threaded	Solder	A-98029-3217	N/A	N/A	A-69062-2424	YES	4	1.32
N/A	N/A	N/A	M8B	Power	Threaded	Crimp	A-98028-3217	SWC	N/A	A-69062-2424	YES	4	1.32
N/A	N/A	N/A	M8C	Power	Threaded	Solder	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A-97943	SWC	N/A	M8C	Power	Threaded	Crimp	A-98028-365	SWC	N/A	A-69150-2628	NO	2	1.60
N/A	N/A	N/A	M8C	Power	Threaded	Solder	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	M8C	Power	Threaded	Crimp	A-98028-365	SWC	N/A	A-69063-2628	YES	2	1.60

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Bulk Cable Material And Descriptions

The next section gives detail into the bulk cables that we both use and are moving to. We have moved from an off the shelf non flexible material to a custom 600V cable material on all products. This has given us an advantage in the market as we are no longer required to separate cables due to voltage ratings.

During the selection for the XT connectors and design of the new bulk cable we revisited the current capacity ratings from the NEC tables. The alignment is somewhat different on new cable designs for wire gage and current rating when compared to the earlier “GC” and “CS” series cables.

ORIGINAL MATERIAL							
Cable	Usage	gage	Conductors	voltage rating	Temperature	Vendor PN	vendor
A-81948	Resolver	22	4 Pair	400	105° C	8725	Belden
A-96027-004	Resolver/Brake	22	6 pair	300	105° C	C0573	Carroll Wire
A-96759	Encoder	20/18	9 pair	300	105° C		Weico
A-96758	Encoder/brake	20/18	10 pair	300	105° C		Weico
A-93553-006	Power	14	4 single	600	125° C		Omni
A-93553-003	Power	12	4 single	600	125° C		Omni
A-93553-001	Power	8	4 single	600	125° C		Omni
A-93553-005	Power	4	4 single	600	125° C		Omni
NEW BULK MATERIAL							
A-98161	Resolver	24	4 Pair	600	105° C		C & M
A-97938	Resolver/Brake	24/18	6 Pair	600	105° C		C & M
A-97939	Encoder	24/18	8 Pair	600	105° C		C & M
A-98230	Brake	18	3 Single	600	105° C		
A-97941-014	Power	14	4 single	600	105° C		C & M
A-97941-012	Power	12	4 single	600	105° C		C & M
A-97941-010	Power	10	4 single	600	105° C		C & M
A-97941-008	Power	8	4 single	600	105° C		C & M
A-97941-004	Power	4	4 single	600	105° C		C & M
A-97941-002	Power	2	4 single	600	105° C		C & M
A-98160	Power/Brake	14/18	Composite	600	105°C		C & M
A-98232	Power/Brake	12/18	Composite	600	105°C		C & M
A-98233	Power/Brake	10/18	Composite	600	105°C		C & M

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Mating Connector Kits

Something new. For years this has been without a doubt the largest pain I have had to endure. It is nearly the worst situation to try and figure out a set of mating connectors for any given motor without very specific model information. The idea of kits is not new, it has just never been implemented in a simplified manner. Initially this came up as a need for the XT series and there was no input from anyone as to what type of numbering system was desired. In this situation I created a Baan configurator to create a model number based upon the needed input to select the correct connectors. The following number system is the result of the configuration module. So now it is in stone.

Not all of the kits are available at this time as we are still waiting for all the new material to be flushed through the system.

CONNECTOR KIT NUMBER SYSTEM

Feedback Cables

EXAMPLE: $\frac{CK}{AA} \frac{T}{B} - \frac{T5A}{CCC} - \frac{S}{D} \frac{C}{E} \frac{B}{F} \frac{E}{G}$

AA - Connector Kit

CK - Connector Kit

B - Connector Style

B - Bayonet Style

T - Threaded Style

CCC - Generic Frame size

T1A - Generic size 150X

T3A - Generic size 30X

T3B - Generic size 30X

T5A - Generic size 50X

T5B - Generic size 50X

T7A - Generic size 70X

T7B - Generic size 70X

T7C - Generic size 70X

D - Kit Type

S - Complete set

F - Feedback Connector Only

P - Power Connector Only

B - Brake Connector Only (50X & 70X)

E - Motor Feedback Type

C - Encoder feedback

R - Resolver Feedback

F - Brake Connector Included (50X & 70X) Omit if not used

B - With Brake connector included

G - Backshell Style

E - CE Style backshell (std for all XT series)

N - Non- CE Backshell Style

Connector Kit Parts, these kits are supplied with Crimp socket pins on 150X and 30X, and Solder style on 50X and 70X

Generic	Type	Plug	Pins (1)	Pins (2)	Backshell	
T1A, T3A, T3B	Resolver	A-69033	A-69016	N/A	N/A	
T1A, T3A, T3B	Encoder	A-69279	A-69292	A-69280	N/A	
T1A, T3A	Power	A-69012	A-69271	A-69014	N/A	
T3B	Power	A-69276	A-69278	A-69016	N/A	
T5A, T5B, T7A, T7B, T7C	Resolver	A-98029-2029W	S.W.C.	N/A	A-69060-1810	
T5A, T5B, T7A, T7B, T7C	Encoder	A-98029-2029	S.W.C.	N/A	A-69060-1810	
T5A, T5B, T7A, T7B, T7C	Brake	A-98029-103	S.W.C.	N/A	A-69060-1006	
T5A	Power	A-98029-1810	S.W.C.	N/A	A-69061-1612	
T7A	Power	A-98029-2222	S.W.C	N/A	A-69061-2012	
T7B	Power	A-98029-2222	S.W.C	N/A	A-69061-2016	
T7C	Power	A-98029-3217	S.W.C	N/A	A-69062-2424	

Worth Noting:

On the 150x and 30X connectors, with the pins being purchased separately, Kit part numbers have been put in the Baan system for use in the configurator.

They are;

KIT-69012,

KIT-69033

KIT-69276

KIT-69279

These contain all necessary pins with 1 or 2 spares , including the brake pins on power connectors.

**XT mating
connector Kits**

CE VERSIONS ONLY

Motor	Resolver Feedback Connector Kit	Encoder Feedback Connector Kit	Power Connector Kit	Brake Conn. Kit	Resolver Power & Feedback Set	Encoder Power & Feedback Set	Resolver Power/Feedback/Brake Set	Encoder Power/Feedback/Brake Set
302A	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
302B	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
304A	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
304B	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
306A	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
306B	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
308A	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
308B	CKT-T3A-FRE	CKT-T3A-FCE	CKT-T3A-PE	N/A	CKT-T3A-SRE	CKT-T3A-SCE	N/A	N/A
502A	CKT-T5A-FRE	CKT-T5A-FCE	CKT-T5A-PE	CKT-T5A-BE	CKT-T5A-SRE	CKT-T5A-SCE	CKT-T5A-SRBE	CKT-T5A-SCBE
502B	CKT-T5A-FRE	CKT-T5A-FCE	CKT-T5A-PE	CKT-T5A-BE	CKT-T5A-SRE	CKT-T5A-SCE	CKT-T5A-SRBE	CKT-T5A-SCBE
504A	CKT-T5A-FRE	CKT-T5A-FCE	CKT-T5A-PE	CKT-T5A-BE	CKT-T5A-SRE	CKT-T5A-SCE	CKT-T5A-SRBE	CKT-T5A-SCBE
504B	CKT-T5A-FRE	CKT-T5A-FCE	CKT-T5A-PE	CKT-T5A-BE	CKT-T5A-SRE	CKT-T5A-SCE	CKT-T5A-SRBE	CKT-T5A-SCBE
506A	CKT-T5A-FRE	CKT-T5A-FCE	CKT-T5A-PE	CKT-T5A-BE	CKT-T5A-SRE	CKT-T5A-SCE	CKT-T5A-SRBE	CKT-T5A-SCBE
506B	CKT-T5A-FRE	CKT-T5A-FCE	CKT-T5A-PE	CKT-T5A-BE	CKT-T5A-SRE	CKT-T5A-SCE	CKT-T5A-SRBE	CKT-T5A-SCBE
508A	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
508B	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
701A	CKT-T7A-FRE	CKT-T7A-FCE	CKT-T7A-PE	CKT-T7A-BE	CKT-T7A-SRE	CKT-T7A-SCE	CKT-T7A-SRBE	CKT-T7A-SCBE
701B	CKT-T7A-FRE	CKT-T7A-FCE	CKT-T7A-PE	CKT-T7A-BE	CKT-T7A-SRE	CKT-T7A-SCE	CKT-T7A-SRBE	CKT-T7A-SCBE
702A	CKT-T7A-FRE	CKT-T7A-FCE	CKT-T7A-PE	CKT-T7A-BE	CKT-T7A-SRE	CKT-T7A-SCE	CKT-T7A-SRBE	CKT-T7A-SCBE
702B	CKT-T7B-FRE	CKT-T7B-FCE	CKT-T7B-PE	CKT-T7B-BE	CKT-T7B-SRE	CKT-T7B-SCE	CKT-T7B-SRBE	CKT-T7B-SCBE
704A	CKT-T7B-FRE	CKT-T7B-FCE	CKT-T7B-PE	CKT-T7B-BE	CKT-T7B-SRE	CKT-T7B-SCE	CKT-T7B-SRBE	CKT-T7B-SCBE
704B	CKT-T7B-FRE	CKT-T7B-FCE	CKT-T7B-PE	CKT-T7B-BE	CKT-T7B-SRE	CKT-T7B-SCE	CKT-T7B-SRBE	CKT-T7B-SCBE
706A	CKT-T7B-FRE	CKT-T7B-FCE	CKT-T7B-PE	CKT-T7B-BE	CKT-T7B-SRE	CKT-T7B-SCE	CKT-T7B-SRBE	CKT-T7B-SCBE
706B	CKT-T7C-FRE	CKT-T7C-FCE	CKT-T7C-PE	CKT-T7C-BE	CKT-T7C-SRE	CKT-T7C-SCE	CKT-T7C-SRBE	CKT-T7C-SCBE
708A	CKT-T7C-FRE	CKT-T7C-FCE	CKT-T7C-PE	CKT-T7C-BE	CKT-T7C-SRE	CKT-T7C-SCE	CKT-T7C-SRBE	CKT-T7C-SCBE
708B	CKT-T7C-FRE	CKT-T7C-FCE	CKT-T7C-PE	CKT-T7C-BE	CKT-T7C-SRE	CKT-T7C-SCE	CKT-T7C-SRBE	CKT-T7C-SCBE

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Hookup Tables

The following are hookup tables for selected motor and drive combinations.
Let’s Face it These are always handy to have!

Resolver feedback, BDS4 & BDS5 to GoldLINE B & M series Bayonet Connectors
PT Bayonet size 14, 19 pin motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color Resolver Only	Cable Wire Color RB or RBT	BDS4 C2 or BDS5 C3 Pin Number
A	S3	Red	Red #1	7
B	S1	Black	Black #1	1
N/C	Shield	-	-	8
C	S4	White/Yellow	Red #2	3
D	S2	White/Green	Black #2	9
N/C	Shield	-	-	2
E	R1	White/Red	Red #3	10
F	R2	White/Black	Black #3	4
N/C	Shield	-	-	5
G	-			N/C
H	-			N/C
J	-			N/C
K	-			N/C
L	-			N/C
M	-			N/C
N	Brake	N/A	Red #4	Customer Hookup
P	Brake	N/A	Black #4	Customer Hookup
N/C	Shield		-	
R	Tach +	N/A	Red #5	to C1, Pin 12
S	Tach -	N/A	Black #5	to C1, Pin 16
N/C	Shield		-	to C1, Pin 5
T	Thermostat	Green	Red #6	Customer Hookup
U	Thermostat	White	Red #6	Customer Hookup
N/C	Shield	-	-	

**Resolver feedback, BDS4 & BDS5 to GoldLINE B & M series Threaded Connectors
MS size 22-14 motor receptacle**

Motor Receptacle Pin	Function	Cable Wire Color Resolver Only	Cable Wire Color RB or RBT	BDS4 C2 or BDS5 C3 Pin Number
A	S3	Red	Red #1	7
B	S1	Black	Black #1	1
N/C	Shield	-	-	8
C	S4	White/Yellow	Red #2	3
D	S2	White/Green	Black #2	9
N/C	Shield	-	-	2
E	R1	White/Red	Red #3	10
F	R2	White/Black	Black #3	4
N/C	Shield	-	-	5
G	-			N/C
H	-			N/C
J	-			N/C
K	-			N/C
L	-			N/C
M	-			N/C
N	Brake	N/A	Red #4	Customer Hookup
P	Brake	N/A	Black #4	Customer Hookup
N/C	Shield		-	
R	Tach +	N/A	Red #5	to C1, Pin 12
S	Tach -	N/A	Black #5	to C1, Pin 16
N/C	Shield		-	to C1, Pin 5
T	Thermostat	Green	Red #6	Customer Hookup
U	Thermostat	White	Red #6	Customer Hookup
N/C	Shield	-	-	

Resolver feedback, Smart Drive to GoldLINE B & M series Bayonet Connectors
PT Bayonet size 14, 19 pin motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color Resolver Only	Cable Wire Color RB or RBT	Smart Drive C2 Pin Number
A	S3	Red	Red #1	4
B	S1	Black	Black #1	5
N/C	Shield	-	-	6
C	S4	White/Yellow	Red #2	8
D	S2	White/Green	Black #2	7
N/C	Shield	-	-	9
E	R1	White/Red	Red #3	2
F	R2	White/Black	Black #3	1
N/C	Shield	-	-	3
G	-			N/C
H	-			N/C
J	-			N/C
K	-			N/C
L	-			N/C
M	-			N/C
N	Brake	N/A	Red #4	Customer Hookup
P	Brake	N/A	Black #4	Customer Hookup
N/C	Shield		-	Customer Hookup
R	Tach +	N/A	Red #5	Customer Hookup
S	Tach -	N/A	Black #5	Customer Hookup
N/C	Shield		-	Customer Hookup
T	Thermostat	Green	Red #6	10
U	Thermostat	White	Red #6	11
N/C	Shield	-	-	12

Resolver feedback, Smart Drive to GoldLINE B & M series Threaded Connectors
MS size 22-14 motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color Resolver Only	Cable Wire Color RB or RBT	Smart Drive C2 Pin Number
<i>A</i>	<i>S3</i>	<i>Red</i>	<i>Red #1</i>	<i>4</i>
<i>B</i>	<i>S1</i>	<i>Black</i>	<i>Black #1</i>	<i>5</i>
<i>N/C</i>	<i>Shield</i>	<i>-</i>	<i>-</i>	<i>6</i>
<i>C</i>	<i>S4</i>	<i>White/Yellow</i>	<i>Red #2</i>	<i>8</i>
<i>D</i>	<i>S2</i>	<i>White/Green</i>	<i>Black #2</i>	<i>7</i>
<i>N/C</i>	<i>Shield</i>	<i>-</i>	<i>-</i>	<i>9</i>
<i>E</i>	<i>R1</i>	<i>White/Red</i>	<i>Red #3</i>	<i>2</i>
<i>F</i>	<i>R2</i>	<i>White/Black</i>	<i>Black #3</i>	<i>1</i>
<i>N/C</i>	<i>Shield</i>	<i>-</i>	<i>-</i>	<i>3</i>
<i>G</i>	<i>-</i>			<i>N/C</i>
<i>H</i>	<i>-</i>			<i>N/C</i>
<i>J</i>	<i>-</i>			<i>N/C</i>
<i>K</i>	<i>-</i>			<i>N/C</i>
<i>L</i>	<i>-</i>			<i>N/C</i>
<i>M</i>	<i>-</i>			<i>N/C</i>
<i>N</i>	<i>Brake</i>	<i>N/A</i>	<i>Red #4</i>	<i>Customer Hookup</i>
<i>P</i>	<i>Brake</i>	<i>N/A</i>	<i>Black #4</i>	<i>Customer Hookup</i>
<i>N/C</i>	<i>Shield</i>		<i>-</i>	<i>Customer Hookup</i>
<i>R</i>	<i>Tach +</i>	<i>N/A</i>	<i>Red #5</i>	<i>Customer Hookup</i>
<i>S</i>	<i>Tach -</i>	<i>N/A</i>	<i>Black #5</i>	<i>Customer Hookup</i>
<i>N/C</i>	<i>Shield</i>		<i>-</i>	<i>Customer Hookup</i>
<i>T</i>	<i>Thermostat</i>	<i>Green</i>	<i>Red #6</i>	<i>10</i>
<i>U</i>	<i>Thermostat</i>	<i>White</i>	<i>Red #6</i>	<i>11</i>
<i>N/C</i>	<i>Shield</i>	<i>-</i>	<i>-</i>	<i>12</i>

Resolver feedback, 230V ServoSTAR to GoldLINE B & M series Bayonet Connectors
PT Bayonet size 14, 19 pin motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color Resolver Only	Cable Wire Color RB or RBT	ServoSTAR C2 Pin Number
A	S3	Red	Red #1	1
B	S1	Black	Black #1	2
N/C	Shield	-	-	3
C	S4	White/Yellow	Red #2	5
D	S2	White/Green	Black #2	4
N/C	Shield	-	-	6
E	R1	White/Red	Red #3	16
F	R2	White/Black	Black #3	15
N/C	Shield	-	-	14
G	-			N/C
H	-			N/C
J	-			N/C
K	-			N/C
L	-			N/C
M	-			N/C
N	Brake	N/A	Red #4	Customer Hookup
P	Brake	N/A	Black #4	Customer Hookup
N/C	Shield		-	Customer Hookup
R	Tach +	N/A	Red #5	Customer Hookup
S	Tach -	N/A	Black #5	Customer Hookup
N/C	Shield		-	Customer Hookup
T	Thermostat	Green	Red #6	13
U	Thermostat	White	Red #6	25
N/C	Shield	-	-	12
N/C	-		-	7
N/C	-		-	8
N/C	-		-	9
N/C	-		-	10
N/C	-		-	11
N/C	-		-	17
N/C	-		-	18
N/C	-		-	19
N/C	-		-	20
N/C	-		-	21
N/C	-		-	22
N/C	-		-	23
N/C	-		-	24

Resolver feedback, 230V ServoSTAR to GoldLINE B & M series Threaded Connectors, MS size 22-14 motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color Resolver Only	Cable Wire Color RB or RBT	ServoSTAR C2 Pin Number
A	S3	Red	Red #1	1
B	S1	Black	Black #1	2
N/C	Shield	-	-	3
C	S4	White/Yellow	Red #2	5
D	S2	White/Green	Black #2	4
N/C	Shield	-	-	6
E	R1	White/Red	Red #3	16
F	R2	White/Black	Black #3	15
N/C	Shield	-	-	14
G	-			N/C
H	-			N/C
J	-			N/C
K	-			N/C
L	-			N/C
M	-			N/C
N	Brake	N/A	Red #4	Customer Hookup
P	Brake	N/A	Black #4	Customer Hookup
N/C	Shield		-	Customer Hookup
R	Tach +	N/A	Red #5	Customer Hookup
S	Tach -	N/A	Black #5	Customer Hookup
N/C	Shield		-	Customer Hookup
T	Thermostat	Green	Red #6	13
U	Thermostat	White	Red #6	25
N/C	Shield	-	-	12
N/C	-		-	7
N/C	-		-	8
N/C	-		-	9
N/C	-		-	10
N/C	-		-	11
N/C	-		-	17
N/C	-		-	18
N/C	-		-	19
N/C	-		-	20
N/C	-		-	21
N/C	-		-	22
N/C	-		-	23
N/C	-		-	24

Encoder feedback, 230V ServoSTAR to GoldLINE B & M series Bayonet Connectors
PT Bayonet size 14, 19 pin motor receptacle “W” Key Position

Motor Receptacle Pin	Function	Cable Wire Color Resolver	Cable Wire Color Resolver/Brake	ServoSTAR C2 Pin Number
A	A	Blue	Blue	1
M	/A	Blue/Black	Blue/Black	2
N/C	Shield	-	-	14
D	I	Yellow	Yellow	15
E	/I	Yellow/Black	Yellow/Black	16
N/C	Shield	-	-	3
B	B	Green	Green	4
C	/B	Green/Black	Green/Black	5
N/C	Shield	-	-	17
R	+5V	Red	Red	19 & 20
S	COMMON	Black	Black	7 & 8
V	Shield	-	-	6
G	H1a	Brown/Black	Brown/Black	22
F	H1b	Brown	Brown	9
N/C	Shield	-	-	21
J	H2a	Gray/Black	Gray/Black	23
H	H2b	Gray	Gray	10
N/C	Shield	-	-	21
L	H3a	White/Black	White/Black	24
K	H3b	White	White	11
N/C	Shield	-	-	21
T	Thermostat	Violet	Violet	13
U	Thermostat	Violet/Black	Violet/Black	25
N/C	Shield	-	-	12
N	Brake	N/A	Orange	Customer Hookup
P	Brake	N/A	Orange/Black	Customer Hookup
N/C	-			18

Encoder feedback, 230V ServoSTAR, GoldLINE to B & M series Threaded Connectors, MS size 22-14W motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color Resolver	Cable Wire Color Resolver/Brake	ServoSTAR C2 Pin Number
A	A	Blue	Blue	1
M	/A	Blue/Black	Blue/Black	2
N/C	Shield	-	-	14
D	I	Yellow	Yellow	15
E	/I	Yellow/Black	Yellow/Black	16
N/C	Shield	-	-	3
B	B	Green	Green	4
C	/B	Green/Black	Green/Black	5
N/C	Shield	-	-	17
R	+5V	Red	Red	19 & 20
S	COMMON	Black	Black	7 & 8
V	Shield	-	-	6
G	H1a	Brown/Black	Brown/Black	22
F	H1b	Brown	Brown	9
N/C	Shield	-	-	21
J	H2a	Gray/Black	Gray/Black	23
H	H2b	Gray	Gray	10
N/C	Shield	-	-	21
L	H3a	White/Black	White/Black	24
K	H3b	White	White	11
N/C	Shield	-	-	21
T	Thermostat	Violet	Violet	13
U	Thermostat	Violet/Black	Violet/Black	25
N/C	Shield	-	-	12
N	Brake	N/A	Orange	Customer Hookup
P	Brake	N/A	Orange/Black	Customer Hookup
N/C	-			18

Resolver feedback, 230V ServoSTAR to GoldLINE XT series MS Threaded Connector,s MS size 20-29W, 17 pin motor receptacle “W” Key Position

Motor Receptacle Pin	Function	Cable Wire Color	ServoSTAR C2 Pin Number
A	S3	Red	1
B	S1	Black	2
C	S4	White/Yellow	5
D	S2	White/Green	4
E	R1	White/Red	16
F	R2	White/Black	15
G	-		N/C
H	-		N/C
J	-		N/C
K	-		N/C
L	-		N/C
M	-		N/C
N	-		N/C
P	-		N/C
R	Thermostat	Green	13
S	Thermostat	White	25
T	-		N/C
Backshell	Overall Shield		Mechanical Conn. to Housing
Backshell	Individual Shield		Mechanical Conn. to Housing
N/C	-		3
N/C	-		6
N/C	-		7
N/C	-		8
N/C	-		9
N/C	-		10
N/C	-		11
N/C	-		12
N/C	-		14
N/C	-		17
N/C	-		18
N/C	-		19
N/C	-		20
N/C	-		21
N/C	-		22
N/C	-		23
N/C	-		24

Encoder feedback, 230V ServoSTAR to GoldLINE XT series MS Threaded Connectors, MS 20-29, 17 pin motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color	ServoSTAR C2 pin Number
A	A	Blue	1
M	/A	Blue/Black	2
N/C	-	-	14
B	B	Green	4
C	/B	Green/Black	5
N/C	-	-	17
D	I	Yellow	15
E	/I	Yellow/Black	16
N/C	-	-	3
N/C	Hall 1A	Tied to Pin 18	22
F	Hall 1B	Red/Black	9
N/C	Hall 2A	Tied to Pin 18	23
H	Hall 2B	Gray	10
N/C	Hall 3A	Tied to Pin 18	24
K	Hall 3B	White	11
N/C	-	-	21
P	Thermostat	Violet	13
T	Thermostat	Violet/White	25
Backshell	Individual Shield	-	mechanical connection to housing
R	+5V Supply	Red 18 AWG	19
S	5V Return	Black 18 AWG	7
Backshell	Individual Shield	-	mechanical connection to housing
G	-		N/C
J	-		N/C
L	-		N/C
N	-		N/C
Backshell	OVERALL SHIELD	-	mechanical connection to housing
N/C	-	Tied to pins, 22, 23, 24	18
N/C	-		6
N/C	-		8
N/C	-		12
N/C	-		20

Resolver feedback, 230 V ServoSTAR to GoldLINE XT series Euro Style Threaded Connectors 12 pin motor receptacle.

Motor Receptacle Pin	Function	Cable Wire Color	ServoSTAR C2 Pin Number
3	S3	Red	1
7	S1	Black	2
4	S4	White/Yellow	5
8	S2	White/Green	4
9	R1	White/Red	16
5	R2	White/Black	15
2	Thermostat	Green	13
6	Thermostat	White	25
Backshell	Overall Shield		Mechanical Conn. to Housing
Backshell	Individual Shield		Mechanical Conn. to Housing
1	-		
10	-		N/C
11	-		N/C
12	-		N/C
N/C	-		3
N/C	-		6
N/C	-		7
N/C	-		8
N/C	-		9
N/C	-		10
N/C	-		11
N/C	-		12
N/C	-		14
N/C	-		17
N/C	-		18
N/C	-		19
N/C	-		20
N/C	-		21
N/C	-		22
N/C	-		23
N/C	-		24

Encoder feedback, 230 V ServoSTAR to GoldLINE XT series Euro Style Threaded Connector, 17 pin motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color	ServoSTAR C2 pin Number
1	A	Blue	1
2	/A	Blue/Black	2
N/C	-	-	14
3	B	Green	4
4	/B	Green/Black	5
N/C	-	-	17
5	I	Yellow	15
6	/I	Yellow/Black	16
N/C	-	-	3
N/C	Hall 1A	Tied to Pin 18	22
17	Hall 1B	Red/Black	9
N/C	Hall 2A	Tied to Pin 18	23
16	Hall 2B	Gray	10
N/C	Hall 3A	Tied to Pin 18	24
15	Hall 3B	White	11
N/C	-	-	21
8	Thermostat	Violet	13
9	Thermostat	Violet/White	25
Backshell	Individual Shield	-	Mechanical connection to housing
10	+5V Supply	Red 18 AWG	19
7	5V Return	Black 18 AWG	7
Backshell	Individual Shield	-	Mechanical connection to housing
12	-	Reserved	N/C
13	-	Reserved	N/C
14	-	Reserved	N/C
Backshell	OVERALL SHIELD	-	Mechanical connection to housing
N/C	-	Tied to pins, 22, 23, 24	18
N/C	-		6
N/C	-		8
N/C	-		12

Sine Encoder feedback (Type 2, non-Serial), 230 V ServoSTAR to GoldLINE XT series MS Threaded Connectors MS size 20-29, 17 pin motor receptacle

Motor Receptacle Pin	Function	Cable Wire Color	ServoSTAR C2 pin Number
<i>A</i>	<i>A</i>	<i>Blue</i>	<i>1</i>
<i>M</i>	<i>/A</i>	<i>Blue/Black</i>	<i>2</i>
<i>N/C</i>	<i>-</i>	<i>-</i>	<i>14</i>
<i>B</i>	<i>B</i>	<i>Green</i>	<i>4</i>
<i>C</i>	<i>/B</i>	<i>Green/Black</i>	<i>5</i>
<i>N/C</i>	<i>-</i>	<i>-</i>	<i>17</i>
<i>D</i>	<i>I</i>	<i>Yellow</i>	<i>15</i>
<i>E</i>	<i>/I</i>	<i>Yellow/Black</i>	<i>16</i>
<i>N/C</i>	<i>-</i>	<i>-</i>	<i>3</i>
<i>H</i>	<i>C</i>	<i>Black</i>	<i>22</i>
<i>F</i>	<i>/C</i>	<i>Red/Black</i>	<i>9</i>
<i>J</i>	<i>D</i>	<i>Gray/Black</i>	<i>23</i>
<i>K</i>	<i>/D</i>	<i>Gray</i>	<i>10</i>
<i>N/C</i>	<i>-</i>	<i>-</i>	<i>24</i>
<i>N/C</i>	<i>-</i>	<i>-</i>	<i>11</i>
<i>N/C</i>	<i>-</i>	<i>-</i>	<i>21</i>
<i>P</i>	<i>Thermostat</i>	<i>Violet</i>	<i>13</i>
<i>T</i>	<i>Thermostat</i>	<i>Violet/White</i>	<i>25</i>
<i>Backshell</i>	<i>Individual Shield</i>	<i>-</i>	<i>mechanical connection to housing</i>
<i>G</i>	<i>+5V Supply</i>	<i>Red 18 AWG</i>	<i>19</i>
<i>S</i>	<i>5V Return</i>	<i>Black 18 AWG</i>	<i>7</i>
<i>Backshell</i>	<i>Individual Shield</i>	<i>-</i>	<i>mechanical connection to housing</i>
<i>L</i>	<i>-</i>		<i>N/C</i>
<i>N</i>	<i>-</i>		<i>N/C</i>
<i>R</i>	<i>-</i>	<i>Open</i>	<i>N/C</i>
<i>Backshell</i>	<i>OVERALL SHIELD</i>	<i>-</i>	<i>mechanical connection to housing</i>
<i>N/C</i>	<i>-</i>		<i>6</i>
<i>N/C</i>	<i>-</i>		<i>8</i>
<i>N/C</i>	<i>-</i>		<i>12</i>
<i>N/C</i>	<i>-</i>		<i>18</i>
<i>N/C</i>	<i>-</i>		<i>20</i>

Encoder feedback, 230V ServoSTAR to SilverLINE 0802, CPC Stype Connector

Motor Receptacle Pin	Function	Cable Wire Color	ServoSTAR C2 pin Number
1	Thermistor	Yellow	25
2	Thermistor	Yellow/Black	13
3	A	Blue	1
4	B	Green	4
5	I	Violet	15
6	/A	Blue/Black	2
7	/B	Green/Black	5
8	/I	Violet/Black	16
9	+V	Red	19
10	Common	Black	7
11	Shield	Clear	21
12	Hall Hab	Brown	9
13	Hall Hbc	Gray	10
14	Hall Hca	White	11
15	N/C	-	
16	N/C	-	
N/C	Jumper	Tied to pin 18	22
N/C	Jumper	Tied to pin 18	23
N/C	Jumper	Tied to pin 18	24
N/C	Shield	-	3
N/C	Shield	-	6
N/C	Shield	-	12
N/C	Shield	-	14
N/C	Shield	-	17
N/C		tied to pins 22, 23, 24	18
N/C	-		8
N/C	-		20

Resolver feedback, 460 V ServoSTAR to GoldLINE XT series Euro Style Threaded Connectors 12 pin motor receptacle.

<i>Motor Receptacle Pin</i>	<i>Function</i>	<i>Cable Wire Color</i>	<i>ServoSTAR X2 Pin Number</i>
4	S3	Red	4
8	S1	Black	8
3	S4	White/Yellow	3
7	S2	White/Green	7
5	R1	White/Red	9
9	R2	White/Black	5
6	Thermostat	Green	6
2	Thermostat	White	2
Backshell	Overall Shield		Mechanical Conn. to Housing
Backshell	Individual Shield		Mechanical Conn. to Housing
	-		