

**ENGINEERING PUBLICATION**  
**MOTION CONTROL DIVISION**

**PRODUCT: B2BE-XX(A), B2BE-XX(B)-E**  
**SUBJECT: CABLE COMPARISON OF B2BE-XX(A) WITH B2BE-XX(B)-E FOR SGMGH-20, SGMGH-30, SGMSH-30**

**CATEGORY: TECHNICAL NOTE**

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**DISTRIBUTION: PUBLIC**

**ABSTRACT:**

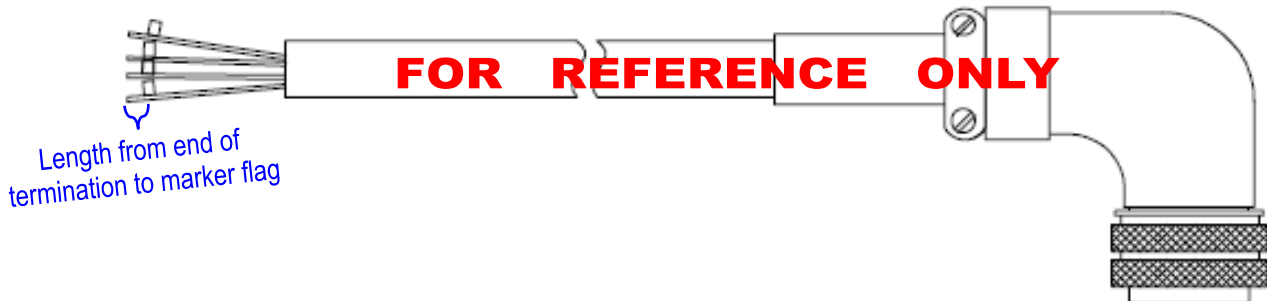
This document contains pertinent differences between the B2BE-xx(A) and B2BE-xx(B)-E cables (where xx = 03, 05, 10, 15, 20).

**DIFFERENCES:**

Cable Part Number	B2BE-xx(A)	B2BE-xx(B)-E
Outer Diameter	20.8 mm	21.46 mm
Bend Radius	8x Outer Diameter	5x Outer Diameter
RoHS Compliance	Non-RoHS	RoHS
Conductor Count	6	7 <sup>*1</sup>
Length from termination to marker flag <sup>*2</sup>	16.2 mm	40.0 mm
Connector Part Number	DMS3106A24-10S(D190)	D/MS3106A24-10S(D190)
Raw Cable Part Number	Coleman Cable 30609	Coleman Cable 30709

Notes:

- \*1: 7 conductors within raw cable, but 1 conductor is not connected on either side of the cable. The unused conductor color is White/Black
- \*2: "Length from end of termination to marker flag" is shown in the reference drawing below (the drawing is for a non-brake motor without overmolded backshell – this does not represent the B2BE cables, however, the length from end of termination to marker flag still applies to the B2BE cables).



**SIMILARITIES:**

Outer Jacket Material	SEOPRENE 105 SEOOW E54864
Overmolding	L-Type Molded Backshell 95 Durometer PVC. Dimensions are the same.
Applicable Motors	All brake motors of models: SGMGH-20*, SGMGH-30*, SGMSH-30*

Note: The similarities are not limited to the items listed in the table above.