

Product Technical Note

**Cable Comparison of B3BE-xx(A)
with B3BE-xx(B)-E
for
SGMGH-44A, SGMSH-40A, SGMSH-50A**

Applicable Product: B3BE-xx(A), B3BE-xx(B)-E

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|---|---------------------|
| Product: B3BE-xx(A), B3BE -xx(B)-E | Doc#: TN.Sigmall.04 |
| Title: Technical Note: Cable Comparison of B3BE-xx(A) with B3BE-xx(B)-E for SGMGH-44A, SGMSH-40A, SGMSH-50A | |

ABSTRACT:

This document contains pertinent differences between the B3BE-xx(A) and B3BE-xx(B)-E cables (where xx = 03, 05, 10, 15, 20).

DIFFERENCES:

| Cable Part Number | B3BE-xx(A) | B3BE-xx(B)-E |
|---|-------------------------------|---|
| Outer Diameter | 29.52 mm | 20.5 mm |
| Bend Radius | 8x Outer Diameter (236.16 mm) | 6x Outer Diameter (123 mm) |
| Overmolding dimensions | See Figure 1. | See Figure 1. |
| Strain Relief ¹ | No strain relief | Strain relief present |
| RoHS Compliance | Non-RoHS | RoHS |
| Length from termination to marker flag ² | 16.2 mm | 40.0 mm |
| Connector (Part Number) | DMS3106A24-10S(D190) | D/MS3106A24-10S(D190) |
| Raw Cable (Part Number) | (Non-stock) Coleman 29991 | (Custom) Dyden FSC10-271B, HRZVU(21612) 8AWGx4C+16AWG+2C |
| Cable Conductor Size | 8AWG x 6C | 8AWG x 4C + 16AWG + 2C Note: The break leads are the 16AWG conductors. |
| Outer Jacket Material | Seoprene TPE (Coleman Cable) | Oil resistant TPE (Dyden) |

Notes:

- *1: "Overmolding" and "Strain Relief" are shown in Figure 1.
- *2: "Length from end of termination to marker flag" is shown in Figure 2.

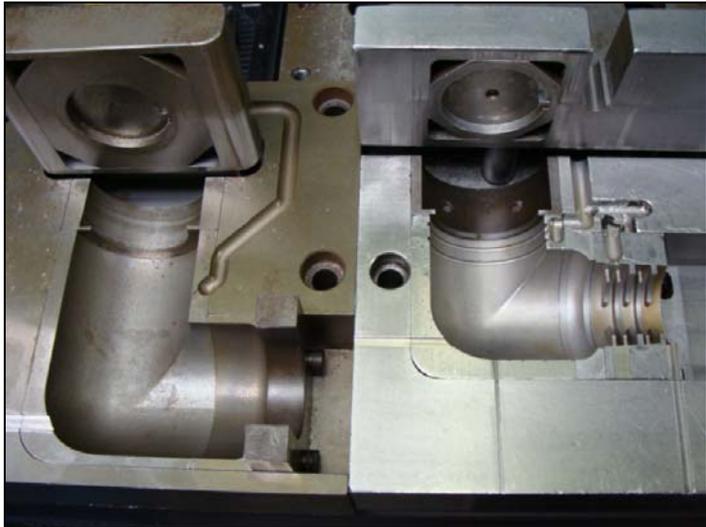


Figure 1: Molding tool for Overmolding + Strain relief. B3BE-xx(A) [Left] vs. B3BE-xx(B)-E [Right]

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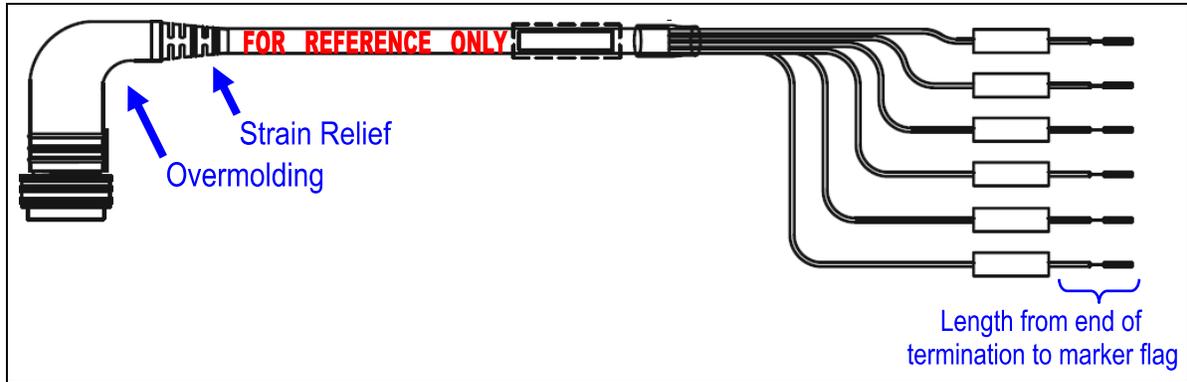


Figure 2: Drawing containing Length from termination to marker flags.

SIMILARITIES:

| | |
|-----------------------------|---|
| Outer Jacket Color | Black |
| Conductor Color | Red, White, Black, Green, Orange, Blue |
| Overmolding Material | L-Type Molded Backshell 95 Durometer PVC. |
| Applicable Motors | All motors of models: SGMGH-44*, SGMSH-40*, SGMSH-50* |

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