

## Solutions for Electronic Specialty Markets (ESM)

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## [Printer-friendly format](#) **3M™ Highland™ Butt Splice Vinyl Insulated BSV10Q, 12-10 AWG**

This butt splice accepts a 12-10 AWG, and has a bag quantity of 25.

GTIN(UPC/EAN) : 0 00 54007 70453 9  
3M Id : 80-6105-8966-7

### Additional Information

Uses chamfered barrel ends to provide fast, easy wire insertion from both ends and a built-in wire stop for correct positioning. Must be crimped at both ends.

### Learn More . . .

[Packaging Data](#)

[Highland Butt Splices - Vinyl Insulated - Product Selection Guide \(PDF 7.9 K\)](#)

[Highland Terminals BSV10, BSV14, BSV18 - Data Sheet \(PDF 22.8 K\)](#)

[Recommended Stranded Wire Combinations - Product Selection Guide \(PDF 5.7 K\)](#)

[Terminal Stud Size Chart - Product Selection Guide \(PDF 5.2 K\)](#)

### Please Note:

Adobe® Acrobat® Reader is required to view PDF documents.



### Characteristics

<b>Agency Approvals</b>	UL and CSA
<b>Barrel Style</b>	Butted
<b>China RoHS - Below MCV</b>	No
<b>CSA File Number</b>	LR22190
<b>EU RoHS Compliant</b>	No
<b>Insulation Material</b>	Vinyl
<b>Terminal Style</b>	Standard
<b>Terminal Type</b>	Butt

<b>UL File Number</b>	E23438
<b>Wire Gauge Range</b>	10 to 12 American Wire Gauge (AWG)

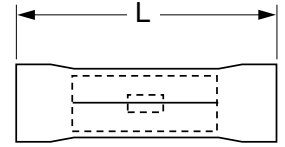
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# Highland™ Terminals

BSV10, BSV14, BSV18

Butt Connector, Vinyl Insulated, Butted Seam



## Data Sheet

Product Number	Wire Range (AWG)	L	Thickness	Barrel Length	Barrel I.D.
BSV10	12-10	1.02	0.040	0.25	0.250
BSV14	16-14	1.00	0.030	0.25	0.170
BSV18	22-18	1.00	0.030	0.25	0.145



UNDERWRITERS  
LABORATORIES  
STANDARD NO. UL 486C  
3M FILE NO. E23438



CANADIAN STANDARDS  
ASSOCIATION  
STANDARD NO. 22.2  
NO. 0, 65  
3M FILE NO. LR22190

## Installation Information

### ⚠ WARNING

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

UL Listed and CSA Certified for use on stranded copper (AWG) wire only.

Strip away the end 3/8 inch of wire insulation.


Make the crimp in the proper station of a recommended 3M crimp tool: TH-440, TH-450 (scissor style) or TR-490 (ratchet style) hand tools.

## Specifications

Wire Size:  
Barrel Seam:  
Insulator Max. Volt Rating:  
  
Maximum Operating Temp.:  
Maximum Current:  
Insulator Material:  
Terminal Material:  
Terminal Plating:

See Table Above  
Butted  
600 V Building Wire:  
1000 V Signs or  
Fixtures (Luminaires)  
221°F (105°C)  
Same as Wire  
Vinyl  
ETP Copper  
Tin



 Barrel Crimp (Required)

## Engineering Specification

Crimp-type terminals shall, electrically and mechanically, connect permanently to the pre-stripped end of two stranded copper wires.

The connector line shall offer barrel variations in wire (AWG) size (22-18, 16-14, 12-10) and construction (non-insulated brazed seam, vinyl insulated butted seam, nylon insulated seamless, etc...). The connector line shall have regulatory agency coverage (UL Listing, CSA Certification). The connectors shall be marked with the wire range and manufacturer's symbol (↑).

The vinyl insulated, butted seam butt connector shall be tin-plated, annealed copper, having a double-length, round barrel with a center stop and a close fitting vinyl tube covering, color coded and sized for a specified (AWG) wire range (22-18, 16-14, 12-10).

Insulated connectors shall be UL Listed and CSA Certified for 600 volts maximum, building wire: 1000 volts maximum, signs or fixtures and temperature rated 221°F (105°C) maximum.

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### IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

**Warranty; Limited Remedy; Limited Liability.** This product will be free from defects in material and manufacture as of the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**

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