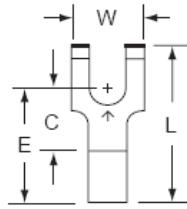


3M™ Specialty Terminals

BS-21-6S thru BA-23-10 Flanged Block
Fork, Non-Insulated, Butted Seam



Data Sheet

March 2009

Product Number	Wire Range (AWG)	Stud Size	W	C	L	E	Thickness	Barrel Length	Maximum Insulation Diameter
BS-21-6S	22-18	6	0.25	0.25	0.63	0.50	0.030	0.25	0.070
BS-21-6	22-18	6	0.30	0.25	0.65	0.50	0.030	0.25	0.070
BS-21-8	22-18	8	0.30	0.25	0.65	0.50	0.030	0.25	0.070
BS-21-10	22-18	10	0.30	0.25	0.65	0.50	0.030	0.25	0.070
BS-22-6S	16-14	6	0.25	0.25	0.63	0.50	0.030	0.25	0.090
BS-22-6	16-14	6	0.30	0.25	0.65	0.50	0.030	0.25	0.090
BS-22-8	16-14	8	0.30	0.25	0.65	0.50	0.030	0.25	0.090
BS-22-10	16-14	10	0.30	0.25	0.65	0.50	0.030	0.25	0.090
BS-23-6	12-10	6	0.32	0.29	0.73	0.54	0.040	0.25	0.135
BS-23-8	12-10	8	0.32	0.29	0.73	0.54	0.040	0.25	0.135
BS-23-10	12-10	10	0.32	0.29	0.73	0.54	0.040	0.25	0.135

Agency Approvals & Self Certifications

UL Listed – tested per UL Standard 486A - 486B, File No. E23438
CSA Certified, CSA Std. C22.2 No. O.65, CSA File No. LR22190

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

Specification

Wire size	See Table Above
Barrel Seam	Butted
Max Voltage Rating	600V Building 1000V signs or fixtures (luminaries)
Max Operating Temp	221°F (105°C)
Maximum Current	Same as wire
Insulator Material	Nylon
Terminal Material	ETP Copper
Terminal Plating	Tin

3M™ Specialty Terminals B-21-6S thru BS-23-10

Installation Information

WARNING

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

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

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



Barrel Crimp (Electrical)

Engineering Specification

3M™ Specialty Terminals BS-21-6S thru BS-23-10 shall, electrically and mechanically connect to the pre-stripped end of a stranded copper wire, and have a flat tongue portion with a central opening for mounting around a screw or stud.

The terminal line shall offer tongue variations in hole (stud) size (6, 8 10, etc.) and configuration (ring, fork, blocked fork, flanged block fork, locking fork, etc.); and barrel variations in wire (AWG) size (22-18, 16-14 and 12-10, etc.) and construction (non-insulated brazed seam, vinyl insulated butted seam, nylon insulated with insulation grip, etc.). The terminal line shall have regulatory agency coverage (UL Listing, CSA Certification). The terminal tongue shall be marked with the wire range and manufacturer's symbol (↑).

The non-insulated, butted seam flanged block fork terminal shall be tin-plated, annealed copper, with the tongue having a specified stud slot (size 6 thru 10) covered by a butted seam barrel with a beveled I.D. for ease of stranded wire entry, sized for a specified (AWG) wire range (22-18, 16-14, 12-10).

Non-Insulated terminals shall be UL Listed and CSA Certified.

Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

Availability

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-245-3573.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. 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. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time 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 indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

3M and Scotchlok are trademarks of 3M Company.



Electrical Markets Division

6801 River Place Blvd.
Austin, TX 78726-9000
800 245 3573
FAX: 800 245 0329
www.3M.com/electrical

Please recycle
© 3M 2009 All rights reserved
78-8126-0858-2 B