



## MECHANICAL SHEAR BOLT CONNECTORS BSL

FOR LOW VOLTAGE APPLICATION UP TO 1.5 kV

### KEY FEATURES

- Wide application range
- Compact design
- Can be used with almost every type of conductor and material
- Torque-controlled shear head bolts\* guarantee an excellent electrical contact
- Easy installation with standard tool
- LV application up to 1.5 kV
- Designed to meet DIN-47640\*\* and IEC-61238-1 class A requirements

TE Connectivity's (TE) shear bolt connectors BSL are designed for use in low voltage applications. Only four sizes cover conductor sizes from 1.5 to 300 mm<sup>2</sup>.

Connector bodies are made of a high tensile tin-plated aluminium alloy\*. The internal surfaces of the conductor holes are grooved at the manufacturing stage to provide excellent electrical performance.

Connectors are available with or without oil barrier (as blocked and unblocked types) depending on the application requirements.

All aluminium alloy contact bolts have shear-heads\*, these bolts are treated with a highly lubricating agent. Shear-head bolts are irremovable once their heads have been sheared off except REM connectors.

**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**



**SELECTION TABLE FOR BLOCKED TYPE CONNECTORS**

Application range - Conductor type									
Description		Al circular stranded	Al circular solid	Al sector stranded	Al sector solid	Cu circular stranded	Cu circular solid	Cu sector stranded	Cu sector solid
<b>BSLB-4/16* (1)</b>	Cross-sectional range (mm <sup>2</sup> )					1.5 - 16	1.5 - 16		
	Conductor diameter (mm)					1.5 - 5.0	1.5 - 4.6		
<b>BSLB-6/25**</b>	Cross-sectional range (mm <sup>2</sup> )	6 - 25	6 - 25			6 - 25	6 - 25		
	Conductor diameter (mm)	2.8 - 6.5	2.7 - 5.7			2.8 - 6.5	2.7 - 5.7		
<b>BSLB-10/50 (1)</b>	Cross-sectional range (mm <sup>2</sup> )	10 - 50	10 - 50	10 - 50	10 - 50	10 - 50	10 - 50	10 - 50	10 - 50
	Conductor diameter (mm)	4.0 - 9.1	3.5 - 7.8			4.0 - 9.1	3.5 - 7.8		
<b>BSLB-35/95 (1)</b>	Cross-sectional range (mm <sup>2</sup> )	35 - 95	35 - 95	35 - 95	35 - 95	25 - 95	35 - 95	35 - 95	35 - 95
	Conductor diameter (mm)	6.6 - 12	6.1 - 11			5.6 - 12.9	6.1 - 11		
<b>BSLB-35/95-REM (2)</b>	Cross-sectional range (mm <sup>2</sup> )	35 - 95	35 - 95	35 - 95	35 - 95	25 - 95	35 - 95	35 - 95	35 - 95
	Conductor diameter (mm)	6.6 - 12	6.1 - 11			5.6 - 12.9	6.1 - 11		
<b>BSLB-25/150 S-AS (1)</b>	Cross-sectional range (mm <sup>2</sup> )	25 - 95	25 - 95	25 - 150	25 - 150	25 - 95	25 - 95	25 - 150	25 - 150
	Conductor diameter (mm)	5.7 - 12.5	5.5 - 11.0			5.7 - 12.5	5.5 - 11.0		
<b>BSLB-25/150 S-AS-REM (2)</b>	Cross-sectional range (mm <sup>2</sup> )	25 - 95	25 - 95	25 - 150	25 - 150	25 - 95	25 - 95	25 - 150	25 - 150
	Conductor diameter (mm)	5.7 - 12.5	5.5 - 11.0			5.7 - 12.5	5.5 - 11.0		
<b>BSLB-25/150-S-I (3)</b>	Cross-sectional range (mm <sup>2</sup> )	25 - 95	25 - 95	25 - 150	25 - 150	25 - 95	25 - 95	25 - 150	25 - 150
	Conductor diameter (mm)	5.7 - 12.5	5.5 - 11.0			5.7 - 12.5	5.5 - 11.0		
<b>BSLB-95/240 (1)</b>	Cross-sectional range (mm <sup>2</sup> )	95 - 240	95 - 240	95 - 240	95 - 240	70 - 240		95 - 240	
	Conductor diameter (mm)	11.0 - 20.0	10.5 - 18.0			9.3 - 20.0			
<b>BSLB-95/240-REM (2)</b>	Cross-sectional range (mm <sup>2</sup> )	95 - 240	95 - 240	95 - 240	95 - 240	70 - 240		95 - 240	
	Conductor diameter (mm)	11.0 - 20.0	10.5 - 18.0			9.3 - 20.0			
<b>BSLB-120/300 (1)</b>	Cross-sectional range (mm <sup>2</sup> )	120 - 300	120 - 300	120 - 300	120 - 300	120 - 300		120 - 300	
	Conductor diameter (mm)	12.7 - 23.1	12.9 - 19.8			12.7 - 22.6			

(1) Unblocked version available on this connector size, description starts with BSLU

(2) Shear-head bolts removable after installation using an 8mm A/F inner hexagon socket for BSLB-25/150 S-AS-REM and 5mm A/F inner hexagon socket for BSLB-35/95-REM & BSLB-95/240-REM

(3) Body insulated (red) according to IEC 60900.

\*BSLB-4/16 size with brass connector body and without shear-head bolts

\*\* BSLB-6/25 comply with IEC 61238-1 class A but not with DIN 47640

**DIMENSIONS AND CHARACTERISTICS OF CONNECTORS**

Description	Length (mm)	Outer diameter (mm)	Contact Bolts Quantity	Head Size AF (mm)
<b>BSLB-4/16</b>	30	12	2	2.5 (Inner Hexagon)
<b>BSLB-6/25</b>	40	14	2	5 (Inner Hexagon)
<b>BSLB-10/50</b>	40	18	2	10
<b>BSLB-35/95 &amp; BSLB-35/95-REM</b>	50	25	2	10
<b>BSLB-25/150 S-AS &amp; BSLB-25/150 S-AS-REM</b>	70	28	2	13
<b>BSLB-25/150-S-I</b>	74	34	2	8 (Inner Hexagon)
<b>BSLB-95/240 &amp; BSLB-95/240-REM</b>	90	37	4	10
<b>BSLB-120/300</b>	100	42	4	13

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