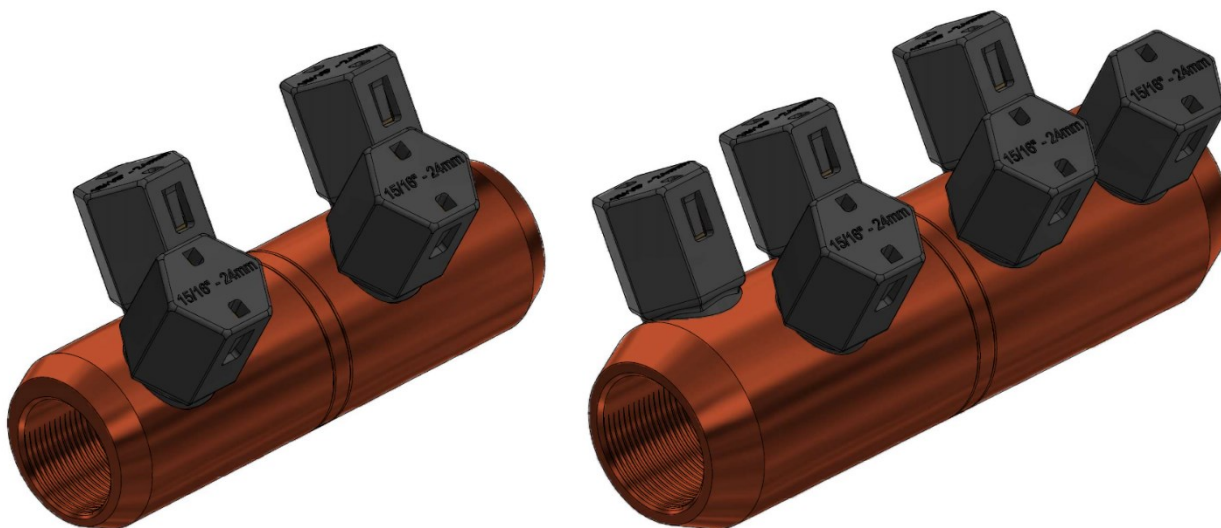


Mechanical In-Line Splice  
with Moisture/Contaminant  
Block for Medium/High  
Voltage Applications

## MECHANICAL CONNECTORS

### 'USMF...-C-B2' Copper In-Line Splices



#### Principle Application:

Straight jointing of circular stranded copper conductors.

#### Range:

Connector Reference	Stranded Core Size			
	Min	Max	Min	Max
USMF2-C-B2	2/0 AWG (67mm <sup>2</sup> )	500 kcmil (253mm <sup>2</sup> )	2/0 AWG (67mm <sup>2</sup> )	500 kcmil (253mm <sup>2</sup> )
USMF9-C-B2	350 kcmil (177mm <sup>2</sup> )	750 kcmil (380mm <sup>2</sup> )	350 kcmil (177mm <sup>2</sup> )	750 kcmil (380mm <sup>2</sup> )
USMF3-C-B2	500 kcmil (253mm <sup>2</sup> )	1000 kcmil (507mm <sup>2</sup> )	500 kcmil (253mm <sup>2</sup> )	1000 kcmil (507mm <sup>2</sup> )

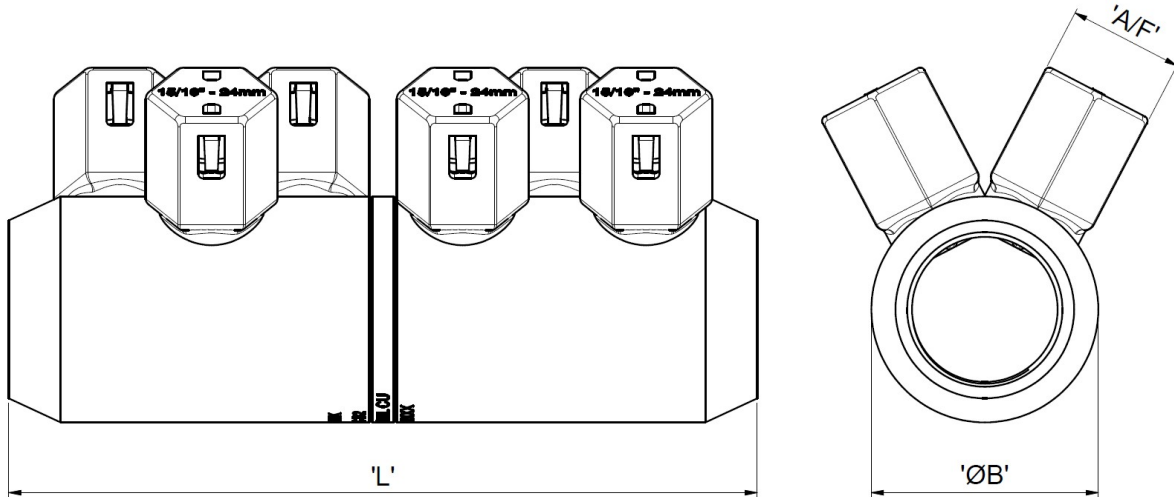
The 'USMF...-C-B2' range of mechanical splices incorporate an integral moisture/contaminant block and utilise the patented universal range taking shear bolts. (USA Patent No's 6209424 & 6321624).

The mechanical splices come complete with factory fitted 15/16" AF adaptors on the universal shear screws for ease of installation.

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### 'USMF...-C-B2' Copper In-Line Splices

#### Physical Dimensions:



Connector Reference	Dimensions		
	'L'	'ØB'	'A/F'
USMF2-C-B2	4.37" (111mm)	1.34" (34mm)	15/16" (24mm)
USMF9-C-B2	5" (127mm)	1.57" (40mm)	15/16" (24mm)
USMF3-C-B2	6.10" (155mm)	1.85" (47mm)	15/16" (24mm)

#### Material:

Connector = HC Copper  
Screws = Brass

#### Test Specification:

**Ten Severe Heat Cycle Test** - E0-5407-2 (Nov. 1985)  
**Thermal Load Cycling** - ANSI C119.4 (2004) Clause 6 : Class A  
**Mechanical Tensile Strength** - ANSI C119.4 (2004) Class 3  
**Test Method for Bending Cold Shrink Splices**

Test Report No: 1202020-1

#### Fitting instructions:

1. Strip insulation from each core equal to the depth of the bore.
2. Wire brush the exposed conductor cores and wipe clean.
3. Align and position the conductor cores in each of the bores ensuring that the core is fully inserted to the centre wall.
4. Using a 15/16" AF socket, torque tighten the plastic cap approximately 1 revolution at a time (outer screws first then work inwards) until all the screws have been sheared.

#### Removal of Shear Screws:

1. To remove a fully sheared universal shear screw use a 'long reach' 1/4" AF allen key.
2. Fully insert the short arm into the centre of the shear screw and turn anti-clockwise.

**Important:** *Do not re-use the shear screws once removed.*

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Sicame UK Ltd operates a continuous product design development and improvement programme and offers active co-operation establishing satisfactory procedures and systems to meet new or unusual jointing situations. The company reserves the right to introduce modifications to the above designs and specifications without prior notice.

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