



## BW Industrial Cable Gland

BW type brass gland, for indoor use with all kind of Steel Wire Armoured (SWA) cable and Aluminium Wire Armoured (AWA) cable.

- > Provides mechanical cable retention & electrical continuity via armoured wire termination.
- > Permanently crimped, low impedance earth termination.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and PVC shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP 2X

SWA and AWA

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Earth Tag, Locknut, PVC Shroud

Available in Brass Nickel Plating on Request

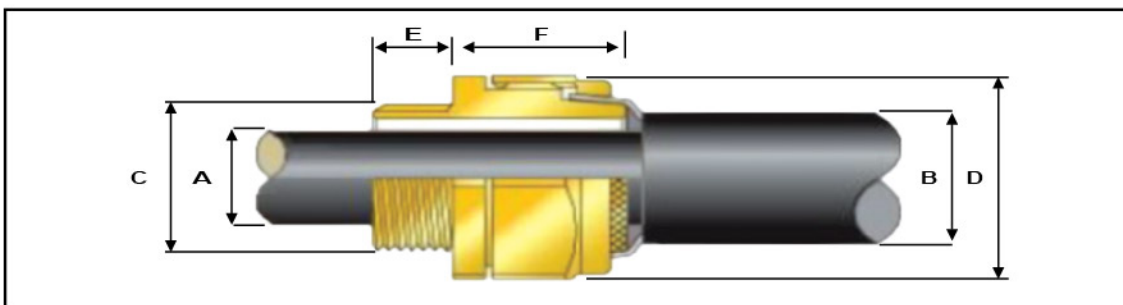
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' | Overall Cable Diameter 'B' | Armour Range |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|---------------------------|----------------------------|----------------------------|--------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  |                  |                           | Max                        | Max                        | Min          | Max  | Max             | Max                |                               |                    |
| 20S              | M20              | 10                        | 11.7                       | 16.1                       | 0.9          | 1.25 | 22              | 24                 | 18                            | 20SBW1BI           |
| 20               | M20              | 10                        | 14                         | 21.1                       | 0.9          | 1.25 | 28              | 30                 | 22                            | 20BW1BI            |
| 25               | M25              | 10                        | 20                         | 27.4                       | 1.25         | 1.6  | 33.6            | 36                 | 26                            | 25BW1BI            |
| 32               | M32              | 10                        | 26.3                       | 34.4                       | 1.6          | 2    | 41              | 44.5               | 28                            | 32BW1BI            |
| 40               | M40              | 10                        | 32.2                       | 42.4                       | 1.6          | 2    | 50              | 56.3               | 30                            | 40BW1BI            |
| 50S              | M50              | 15                        | 38.2                       | 50.1                       | 2            | 2.5  | 57.1            | 63.4               | 30                            | 50SBW1BI           |
| 50               | M50              | 15                        | 44.1                       | 55.7                       | 2            | 2.5  | 61              | 72.1               | 32                            | 50BW1BI            |
| 63S              | M63              | 15                        | 50                         | 62.4                       | 2.5          | 2.5  | 75              | 83                 | 38                            | 63SBW1BI           |
| 63               | M63              | 15                        | 56                         | 68.2                       | 2.5          | 2.5  | 80              | 88.7               | 38                            | 63BW1BI            |
| 75S              | M75              | 15                        | 62                         | 76.8                       | 2.5          | 2.5  | 90              | 99.8               | 40                            | 75SBW1BI           |
| 75               | M75              | 15                        | 75                         | 82.9                       | 2.5          | 3.15 | 95              | 105.3              | 40                            | 75BW1BI            |

Dimensions are displayed in millimeters unless otherwise stated.

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# BW LSF Industrial Cable Gland

**B I C C**  
COMPONENTS



## BW LSF Industrial Cable Gland

BW type brass gland, for indoor use with all kind of Steel Wire Armoured (SWA) cable and Aluminium wire Armoured (AWA) cable.

- > Provides mechanical cable retention & electrical continuity via armoured wire termination.
- > Permanently crimped, low impedance earth termination.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and LSF shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP 2X

SWA and AWA

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Earth Tag, Locknut, LSF Shroud

Available in Brass Nickel Plating on Request

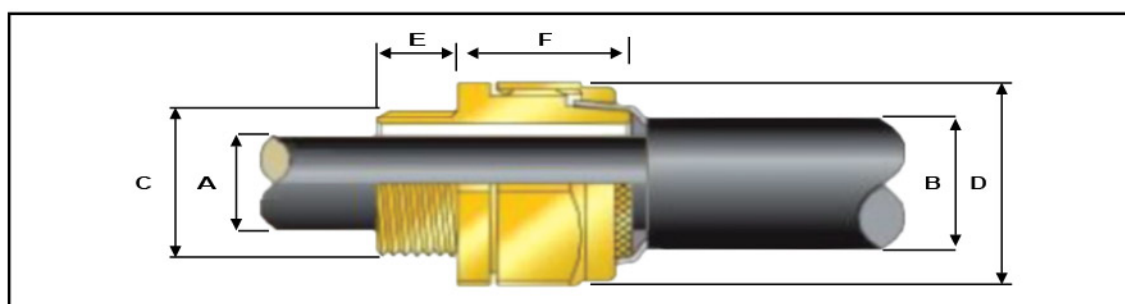
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' | Overall Cable Diameter 'B' | Armour Range |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|---------------------------|----------------------------|----------------------------|--------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  |                  |                           | Max                        | Max                        | Min          | Max  | Max             | Max                |                               |                    |
| 20S              | M20              | 10                        | 11.7                       | 16.1                       | 0.9          | 1.25 | 22              | 24                 | 18                            | 20SBW1LSBI         |
| 20               | M20              | 10                        | 14                         | 21.1                       | 0.9          | 1.25 | 28              | 30                 | 22                            | 20BW1LSBI          |
| 25               | M25              | 10                        | 20                         | 27.4                       | 1.25         | 1.6  | 33.6            | 36                 | 26                            | 25BW1LSBI          |
| 32               | M32              | 10                        | 26.3                       | 34.4                       | 1.6          | 2    | 41              | 44.5               | 28                            | 32BW1LSBI          |
| 40               | M40              | 10                        | 32.2                       | 42.4                       | 1.6          | 2    | 50              | 56.3               | 30                            | 40BW1LSBI          |
| 50S              | M50              | 15                        | 38.2                       | 50.1                       | 2            | 2.5  | 57.1            | 63.4               | 30                            | 50SBW1LSBI         |
| 50               | M50              | 15                        | 44.1                       | 55.7                       | 2            | 2.5  | 61              | 72.1               | 32                            | 50BW1LSBI          |
| 63S              | M63              | 15                        | 50                         | 62.4                       | 2.5          | 2.5  | 75              | 83                 | 38                            | 63SBW1LSBI         |
| 63               | M63              | 15                        | 56                         | 68.2                       | 2.5          | 2.5  | 80              | 88.7               | 38                            | 63BW1LSBI          |
| 75S              | M75              | 15                        | 62                         | 76.8                       | 2.5          | 2.5  | 90              | 99.8               | 40                            | 75SBW1LSBI         |
| 75               | M75              | 15                        | 75                         | 82.9                       | 2.5          | 3.15 | 95              | 105.3              | 40                            | 75BW1LSBI          |

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# CW Single Compression Industrial Cable Gland

**B I C C**  
COMPONENTS



## CW Single Compression Industrial Cable Gland

CW type brass cable gland for use with Steel Wire Armoured Cable (SWA).

- > Single compression gland, providing mechanical cable retention and electrical continuity via armoured wire termination. Environmental seal on the outer sheath to IP 66.
- > Controlled outer load retention seal.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and PVC shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP66

Steel Wire Armor (SWA)

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Earth Tag, Locknut, Entry Thread Seal, PVC Shroud

Available in Brass Nickel Plating on Request

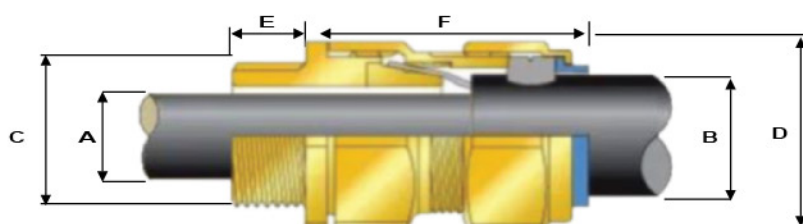
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' | Overall Cable Diameter 'B' |      | Armour Range |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|---------------------------|----------------------------|----------------------------|------|--------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  |                  |                           | Max                        | Min                        | Max  | Min          | Max  | Max             | Max                |                               |                    |
| 20S/16           | M20              | 10                        | 88.7                       | 6.1                        | 11.5 | 0.9          | 1    | 24              | 26.6               | 43                            | 20S16CW1BI         |
| 20S              | M20              | 10                        | 11.7                       | 9.5                        | 15.9 | 0.9          | 1.25 | 24              | 26                 | 43                            | 20SCW1BI           |
| 20               | M20              | 10                        | 14                         | 12.5                       | 20.9 | 0.9          | 1.25 | 30.5            | 33.3               | 50                            | 20CW1BI            |
| 25               | M25              | 10                        | 20                         | 18.2                       | 26.2 | 1.25         | 1.6  | 36              | 40                 | 55                            | 25CW1BI            |
| 32               | M32              | 10                        | 26.3                       | 23.7                       | 33.9 | 1.6          | 2    | 46              | 51                 | 55                            | 32CW1BI            |
| 40               | M40              | 10                        | 32.2                       | 27.9                       | 40.4 | 1.6          | 2    | 55              | 61                 | 55                            | 40CW1BI            |
| 50S              | M50              | 15                        | 38.2                       | 35.2                       | 46.7 | 2            | 2.5  | 60              | 66.5               | 56                            | 50SCW1BI           |
| 50               | M50              | 15                        | 44.1                       | 40.4                       | 53.1 | 2            | 2.5  | 70.1            | 78.6               | 70                            | 50CW1BI            |
| 63S              | M63              | 15                        | 50                         | 45.6                       | 59.4 | 2            | 2.5  | 75              | 83.2               | 70                            | 63SCW1BI           |
| 63               | M63              | 15                        | 56                         | 54.6                       | 65.9 | 2            | 2.5  | 80              | 89                 | 80                            | 63CW1BI            |
| 75S              | M75              | 15                        | 62                         | 59                         | 72.1 | 2            | 2.5  | 90              | 101.6              | 81                            | 75SCW1BI           |
| 75               | M75              | 15                        | 68                         | 66.7                       | 78.5 | 2            | 2.5  | 100             | 111.1              | 96                            | 75CW1BI            |

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# CW Single Compression LSF Industrial Cable Gland

**B I C C**  
COMPONENTS



## CW Single Compression LSF Industrial Cable Gland

CW type brass cable gland for use with Steel Wire Armoured cable (SWA).

- > Single compression gland, providing mechanical cable retention and electrical continuity via armoured wire termination. Environmental seal on the outer sheath to IP 66.
- > Controlled outer load retention seal.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and LSF shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP66

Steel Wire Armor (SWA)

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Earth Tag, Locknut, Entry Thread Seal, LSF Shroud

Available in Brass Nickel Plating on Request

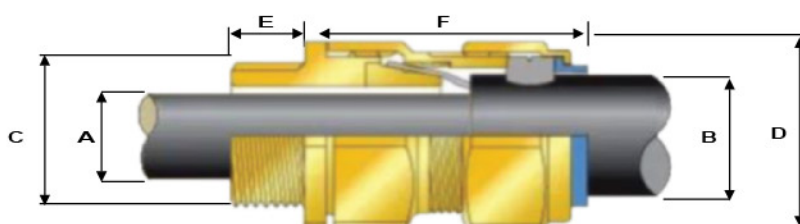
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' | Overall Cable Diameter 'B' |      | Armour Range |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|---------------------------|----------------------------|----------------------------|------|--------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  |                  |                           | Max                        | Min                        | Max  | Min          | Max  | Max             | Max                |                               |                    |
| 20S/16           | M20              | 10                        | 8.7                        | 6.1                        | 11.5 | 0.9          | 1    | 24              | 26.6               | 43                            | 20S16CW1LSBI       |
| 20S              | M20              | 10                        | 11.7                       | 9.5                        | 15.9 | 0.9          | 1.25 | 24              | 26                 | 43                            | 20SCW1LSBI         |
| 20               | M20              | 10                        | 14                         | 12.5                       | 20.9 | 0.9          | 1.25 | 30.5            | 33.3               | 50                            | 20CW1LSBI          |
| 25               | M25              | 10                        | 20                         | 18.2                       | 26.2 | 1.25         | 1.6  | 36              | 40                 | 55                            | 25CW1LSBI          |
| 32               | M32              | 10                        | 26.3                       | 23.7                       | 33.9 | 1.6          | 2    | 46              | 51                 | 55                            | 32CW1LSBI          |
| 40               | M40              | 10                        | 32.2                       | 27.9                       | 40.4 | 1.6          | 2    | 55              | 61                 | 55                            | 40CW1LSBI          |
| 50S              | M50              | 15                        | 38.2                       | 35.2                       | 46.7 | 2            | 2.5  | 60              | 66.5               | 56                            | 50SCW1LSBI         |
| 50               | M50              | 15                        | 44.1                       | 40.4                       | 53.1 | 2            | 2.5  | 70.1            | 78.6               | 70                            | 50CW1LSBI          |
| 63S              | M63              | 15                        | 50                         | 45.6                       | 59.4 | 2            | 2.5  | 75              | 83.2               | 70                            | 63SCW1LSBI         |
| 63               | M63              | 15                        | 56                         | 54.6                       | 65.9 | 2            | 2.5  | 80              | 89                 | 80                            | 63CW1LSBI          |
| 75S              | M75              | 15                        | 62                         | 59                         | 72.1 | 2            | 2.5  | 90              | 101.6              | 81                            | 75SCW1LSBI         |
| 75               | M75              | 15                        | 68                         | 66.7                       | 78.5 | 2            | 2.5  | 100             | 111.1              | 96                            | 75CW1LSBI          |

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## A2 Single Compression Industrial Gland

**B I C C**  
COMPONENTS



### A2 Single Compression Industrial Gland

A2 type brass cable gland for use with all types of unarmoured cable.

- > Single compression gland, providing mechanical cable retention and an environmental seal on outer sheath to IP-66, 67 and 68.
- > Displacement type seal.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and PVC shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

### Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP66, 67 and 68

Unarmoured

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Locknut, Entry Thread Seal, PVC Shroud

Available in Brass Nickel Plating on Request

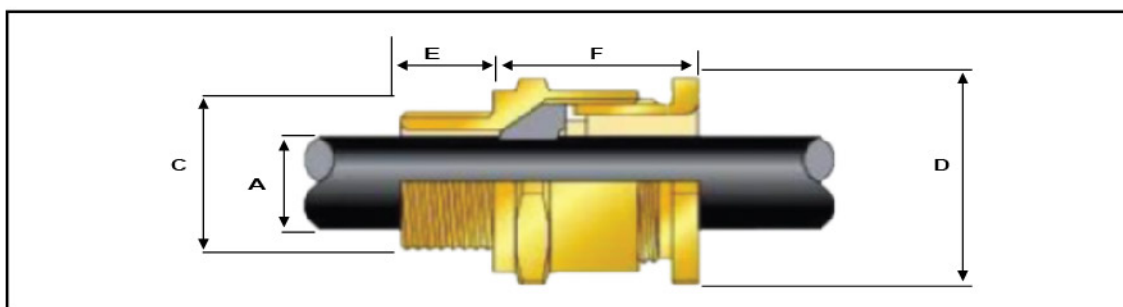
### Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' |        | Option | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|--------|--------|---------------------------|----------------------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  | Metric           | NPT    |        |                           | Min                        | Max  | Max             | Max                |                               |                    |
| 20S/16           | M20              | 1/2"   | 3/4"   | 10                        | 3.1                        | 8.7  | 24              | 26.6               | 21                            | 20S16A21BI         |
| 20S              | M20              | 1/2"   | 3/4"   | 10                        | 6.1                        | 11.7 | 24              | 26.6               | 21                            | 20SA21BI           |
| 20               | M20              | 1/2"   | 3/4"   | 10                        | 6.5                        | 14   | 27              | 30                 | 24                            | 20A21BI            |
| 25               | M25              | 3/4"   | 1"     | 10                        | 11.1                       | 20   | 36              | 39.9               | 26                            | 25A21BI            |
| 32               | M32              | 1"     | 1 1/4" | 10                        | 17                         | 26.3 | 41              | 45.5               | 27                            | 32A21BI            |
| 40               | M40              | 1 1/4" | 1 1/2" | 10                        | 23.5                       | 32.2 | 50              | 55.4               | 28                            | 40A21BI            |
| 50S              | M50              | 1 1/2" | 2"     | 15                        | 31                         | 38.2 | 55              | 61                 | 29                            | 50SA21BI           |
| 50               | M50              | 2"     | 2 1/2" | 15                        | 35.6                       | 44.1 | 60              | 66.5               | 30                            | 50A21BI            |
| 63S              | M63              | 2"     | 2 1/2" | 15                        | 41.5                       | 50   | 70              | 77.6               | 30                            | 63SA21BI           |
| 63               | M63              | 2 1/2" | 3"     | 15                        | 47.2                       | 56   | 75              | 83.2               | 30                            | 63A21BI            |
| 75S              | M75              | 2 1/2" | 3"     | 15                        | 54                         | 62   | 80              | 88.7               | 32                            | 75SA21BI           |
| 75               | M75              | 3"     | 3 1/2" | 15                        | 61.1                       | 68   | 85              | 94.2               | 32                            | 75A21BI            |

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# A2 Single Compression LSF Industrial Cable Gland

**B I C C**  
COMPONENTS



## A2 Single Compression LSF Industrial Cable Gland

A2 type brass cable gland for use with all types of unarmoured cable.

- > Single compression gland, providing mechanical cable retention and an environmental seal on outer sheath to IP-66, 67 and 68.
- > Displacement type seal.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and LSF shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP66, 67 and 68

Unarmoured

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Locknut, Entry Thread Seal, LSF Shroud

Available in Brass Nickel Plating on Request

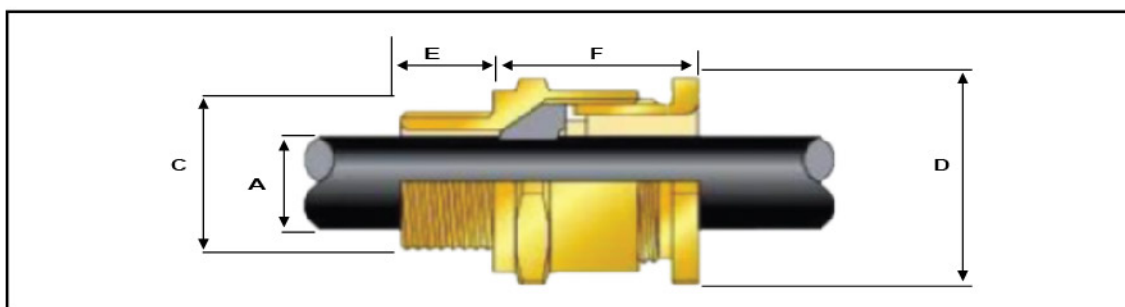
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' |        | Option | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|--------|--------|---------------------------|----------------------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  | Metric           | NPT    |        |                           | Min                        | Max  | Max             | Max                |                               |                    |
| 20S/16           | M20              | 1/2"   | 3/4"   | 10                        | 3.1                        | 8.7  | 24              | 26.6               | 21                            | 20S16A21LSBI       |
| 20S              | M20              | 1/2"   | 3/4"   | 10                        | 6.1                        | 11.7 | 24              | 26.6               | 21                            | 20SA21LSBI         |
| 20               | M20              | 1/2"   | 3/4"   | 10                        | 6.5                        | 14   | 27              | 30                 | 24                            | 20A21LSBI          |
| 25               | M25              | 3/4"   | 1"     | 10                        | 11.1                       | 20   | 36              | 39.9               | 26                            | 25A21LSBI          |
| 32               | M32              | 1"     | 1 1/4" | 10                        | 17                         | 26.3 | 41              | 45.5               | 27                            | 32A21LSBI          |
| 40               | M40              | 1 1/4" | 1 1/2" | 10                        | 23.5                       | 32.2 | 50              | 55.4               | 28                            | 40A21LSBI          |
| 50S              | M50              | 1 1/2" | 2"     | 15                        | 31                         | 38.2 | 55              | 61                 | 29                            | 50SA21LSBI         |
| 50               | M50              | 2"     | 2 1/2" | 15                        | 35.6                       | 44.1 | 60              | 66.5               | 30                            | 50A21LSBI          |
| 63S              | M63              | 2"     | 2 1/2" | 15                        | 41.5                       | 50   | 70              | 77.6               | 30                            | 63SA21LSBI         |
| 63               | M63              | 2 1/2" | 3"     | 15                        | 47.2                       | 56   | 75              | 83.2               | 30                            | 63A21LSBI          |
| 75S              | M75              | 2 1/2" | 3"     | 15                        | 54                         | 62   | 80              | 88.7               | 32                            | 75SA21LSBI         |
| 75               | M75              | 3"     | 3 1/2" | 15                        | 61.1                       | 68   | 85              | 94.2               | 32                            | 75A21LSBI          |

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# E1W Double Compression Industrial Cable Gland

**B I C C**  
COMPONENTS



## E1W Double Compression Industrial Cable Gland

E1W type brass cable gland for use with all types of armoured cables.

- > Double compression gland, providing mechanical cable retention and electric continuity via armoured wire termination. Environmental seal on the outer sheath to IP 66. Inner seal provides grip to inner layer of cable.
- > Secure against self loosening.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and PVC shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP66

All types of armoured cables

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Earth Tag, Locknut, Entry Thread Seal, PVC Shroud

Available in Brass Nickel Plating on Request

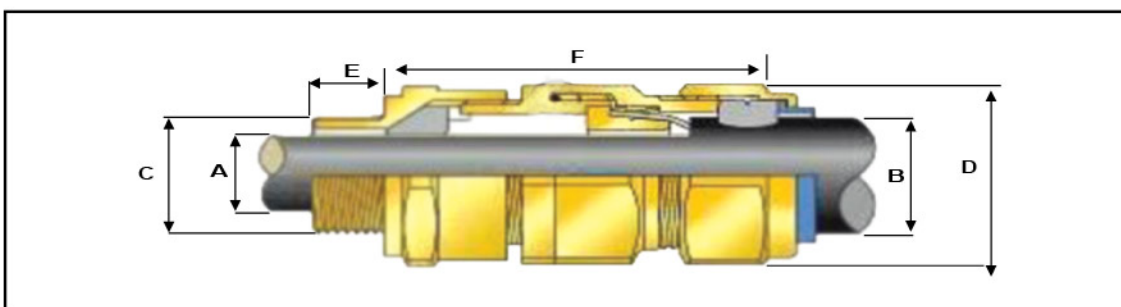
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' |        | Option | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' |      | Overall Cable Diameter 'B' |      | Armour Range |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|--------|--------|---------------------------|----------------------------|------|----------------------------|------|--------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  | Metric           | NPT    |        |                           | Min                        | Max  | Min                        | Max  | Min          | Max  | Max             | Max                |                               |                    |
| 20S/16           | M20              | 1/2"   | 3/4"   | 10                        | 3.1                        | 8.7  | 6.1                        | 11.5 | 0.9          | 1    | 24              | 26.6               | 63                            | 20S16E1W1BI        |
| 20S              | M20              | 1/2"   | 3/4"   | 10                        | 6.1                        | 11.7 | 9.5                        | 15.9 | 0.9          | 1.25 | 24              | 26                 | 63                            | 20SE1W1BI          |
| 20               | M20              | 1/2"   | 3/4"   | 10                        | 6.5                        | 14   | 12.5                       | 20.9 | 0.9          | 1.25 | 30.5            | 33.3               | 67                            | 20E1W1BI           |
| 25               | M25              | 3/4"   | 1"     | 10                        | 11.1                       | 20   | 18.2                       | 26.2 | 1.25         | 1.6  | 37.5            | 40.5               | 78                            | 25E1W1BI           |
| 32               | M32              | 1"     | 1 1/4" | 15                        | 17                         | 26.3 | 23.7                       | 33.9 | 1.6          | 2    | 46              | 51                 | 78                            | 32E1W1BI           |
| 40               | M40              | 1 1/4" | 1 1/2" | 10                        | 22                         | 32.2 | 27.9                       | 40.4 | 1.6          | 2    | 55              | 61                 | 83                            | 40E1W1BI           |
| 50S              | M50              | 1 1/2" | 2"     | 15                        | 29.5                       | 38.2 | 35.2                       | 46.7 | 2            | 2.5  | 60              | 66.5               | 78                            | 50SE1W1BI          |
| 50               | M50              | 2"     | 2 1/2" | 15                        | 35.6                       | 44.1 | 40.4                       | 53.1 | 2            | 2.5  | 70.1            | 78.6               | 81                            | 50E1W1BI           |
| 63S              | M63              | 2"     | 2 1/2" | 15                        | 40.1                       | 50   | 45.6                       | 59.4 | 2            | 2.5  | 75              | 83.2               | 93                            | 63SE1W1BI          |
| 63               | M63              | 2 1/2" | 3"     | 15                        | 47.2                       | 56   | 54.6                       | 65.9 | 2            | 2.5  | 80              | 89                 | 95                            | 63E1W1BI           |
| 75S              | M75              | 2 1/2" | 3"     | 15                        | 52.8                       | 62   | 59                         | 72.1 | 2            | 2.5  | 89              | 101.6              | 103                           | 75SE1W1BI          |
| 75               | M75              | 3"     | 3 1/2" | 15                        | 59.1                       | 68   | 66.7                       | 78.5 | 2            | 2.5  | 99              | 111.1              | 110                           | 75E1W1BI           |

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# E1W Double Compression LSF Industrial Cable Gland

**B I C C**  
COMPONENTS



## E1W Double Compression LSF Industrial Cable Gland

E1W type brass cable gland for use with all types of armoured cables.

- > Double compression gland, providing mechanical cable retention and electric continuity via armoured wire termination. Environmental seal on the outer sheath to IP 66. Inner seal provides grip to inner layer of cable.
- > Secure against self loosening.
- > Cable gland complete kit includes: brass gland, locknut, earth tag and LSF shroud. For sizes upto M25 and lower, will contain two kits and for sizes M32 and above will include one kit of each component.

## Technical Specification

**Threading**

**Standard**

**Ingress Protection Rating**

**Cable Type**

**Protection Material**

**Continuous Operating Temp**

**Accessories**

**Optional**

Metric

BS 6121:2005, EN 62444:2013

IP66

All types of armoured cables

Brass CuZn39Pb3 (CW614N) to EN12168

- 20° C to + 130° C

Earth Tag, Locknut, Entry Thread Seal, LSF Shroud

Available in Brass Nickel Plating on Request

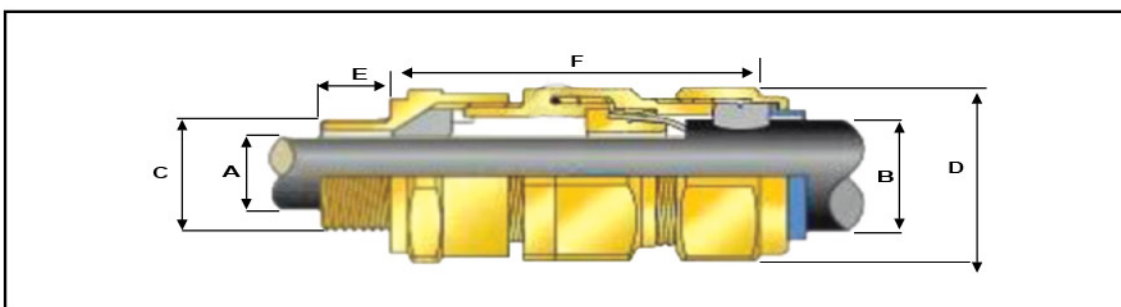
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' |        | Option | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' |      | Overall Cable Diameter 'B' |      | Armour Range |      | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|------------------|--------|--------|---------------------------|----------------------------|------|----------------------------|------|--------------|------|-----------------|--------------------|-------------------------------|--------------------|
|                  | Metric           | NPT    |        |                           | Min                        | Max  | Min                        | Max  | Min          | Max  | Max             | Max                |                               |                    |
| 20S/16           | M20              | 1/2"   | 3/4"   | 10                        | 3.1                        | 8.7  | 6.1                        | 11.5 | 0.9          | 1    | 24              | 26.6               | 63                            | 20S16E1W1LSBI      |
| 20S              | M20              | 1/2"   | 3/4"   | 10                        | 6.1                        | 11.7 | 9.5                        | 15.9 | 0.9          | 1.25 | 24              | 26                 | 63                            | 20SE1W1LSBI        |
| 20               | M20              | 1/2"   | 3/4"   | 10                        | 6.5                        | 14   | 12.5                       | 20.9 | 0.9          | 1.25 | 30.5            | 33.3               | 67                            | 20E1W1LSBI         |
| 25               | M25              | 3/4"   | 1"     | 10                        | 11.1                       | 20   | 18.2                       | 26.2 | 1.25         | 1.6  | 37.5            | 40.5               | 78                            | 25E1W1LSBI         |
| 32               | M32              | 1"     | 1 1/4" | 15                        | 17                         | 26.3 | 23.7                       | 33.9 | 1.6          | 2    | 46              | 51                 | 78                            | 32E1W1LSBI         |
| 40               | M40              | 1 1/4" | 1 1/2" | 10                        | 22                         | 32.2 | 27.9                       | 40.4 | 1.6          | 2    | 55              | 61                 | 83                            | 40E1W1LSBI         |
| 50S              | M50              | 1 1/2" | 2"     | 15                        | 29.5                       | 38.2 | 35.2                       | 46.7 | 2            | 2.5  | 60              | 66.5               | 78                            | 50SE1W1LSBI        |
| 50               | M50              | 2"     | 2 1/2" | 15                        | 35.6                       | 44.1 | 40.4                       | 53.1 | 2            | 2.5  | 70.1            | 78.6               | 81                            | 50E1W1LSBI         |
| 63S              | M63              | 2"     | 2 1/2" | 15                        | 40.1                       | 50   | 45.6                       | 59.4 | 2            | 2.5  | 75              | 83.2               | 93                            | 63SE1W1LSBI        |
| 63               | M63              | 2 1/2" | 3"     | 15                        | 47.2                       | 56   | 54.6                       | 65.9 | 2            | 2.5  | 80              | 89                 | 95                            | 63E1W1LSBI         |
| 75S              | M75              | 2 1/2" | 3"     | 15                        | 52.8                       | 62   | 59                         | 72.1 | 2            | 2.5  | 89              | 101.6              | 103                           | 75SE1W1LSBI        |
| 75               | M75              | 3"     | 3 1/2" | 15                        | 59.1                       | 68   | 66.7                       | 78.5 | 2            | 2.5  | 99              | 111.1              | 110                           | 75E1W1LSBI         |

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# CW Single Compression Aluminium Industrial Cable Gland

**B I C C**  
COMPONENTS



## CW Single Compression Aluminium Industrial Cable Gland

CW type Aluminium cable gland for use with Aluminium Wire Armoured Cable (AWA).

- > Single compression gland providing mechanical cable retention and electrical continuity via armoured wire termination. Environmental seal on the outer sheath to IP 66.
- > Controlled outer load retention seal.
- > Environmental friendly, aluminium alloy used for extra strength & performance. Cable gland kit includes: aluminium gland, locknut, earth tag and PVC shroud.

## Technical Specification

|                           |   |
|---------------------------|---|
| Threading                 | Metric  |
| Standard                  | BS 6121:2005, EN 62444:2013                   |
| Ingress Protection Rating | IP66  |
| Cable Type                | Aluminium Wire Armoured (AWA)                 |
| Protection Material       | 6082 Extruded Aluminium Alloy                 |
| Continuous Operating Temp | -20° C to +130° C                             |
| Accessories               | Earth Tag, Locknut, Entry Thread Seal, Shroud |
| Optional                  | LSF shroud available on request               |

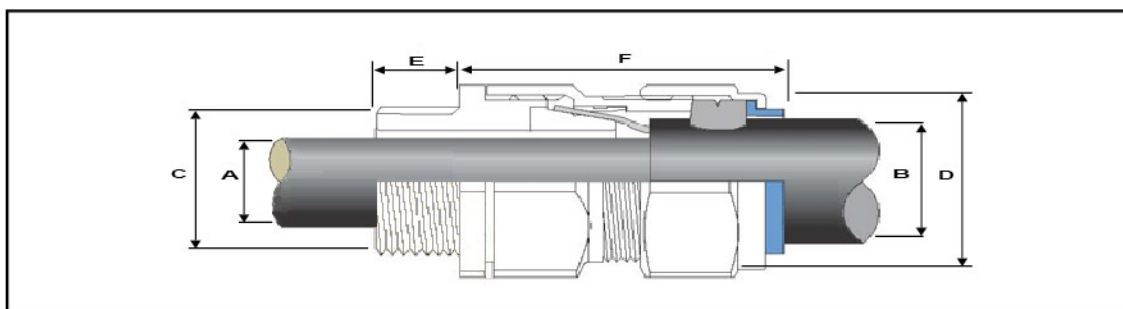
## Cable Gland Selection Table

| Cable Gland Size | Entry Thread 'C' Metric | Minimum Thread Length 'E' | Cable Bedding Diameter 'A' | Overall Cable Diameter 'B' |      | Armour Range |     | Across Flat 'D' | Across Corners 'D' | Nominal Protrusion Length 'F' | Ordering Reference |
|------------------|-------------------------|---------------------------|----------------------------|----------------------------|------|--------------|-----|-----------------|--------------------|-------------------------------|--------------------|
|                  |                         |                           | Max                        | Min                        | Max  | Min          | Max | Max             | Max                |                               |                    |
| 50S              | M50                     | 15                        | 38.2                       | 35.2                       | 46.7 | 2            | 2.5 | 60              | 66.5               | 56                            | AL50SCW1BI         |
| 50               | M50                     | 15                        | 44.1                       | 40.4                       | 53.1 | 2            | 2.5 | 70.1            | 78.6               | 70                            | AL50CW1BI          |

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# Copper Terminal – Bell Mouth Type (BM)

**B I C C**  
COMPONENTS



## Copper Terminal – Bell Mouth Type (BM)

- > **Bell Mouth Entry:**  
Our bell mouth range allows cable insertion to be handled efficiently for the opening of the conductor.
- > **Inspection Hole:**  
The unique design of the inspection hole, helps the conductor to insert fully. The stopper at the end of the insertion allows the conductor to place itself rightly inside the surface area of the crimp.
- > **Application:**  
Suitable for low & medium voltage switch gear & control panel.

## Technical Specification

**Standard**

IEC 61238-1

**Material**

Manufactured from seamless copper tube  
conforming to BS EN 12449:2012

**Finish**

Electro tin-plated conforming to BS EN 1872:1984

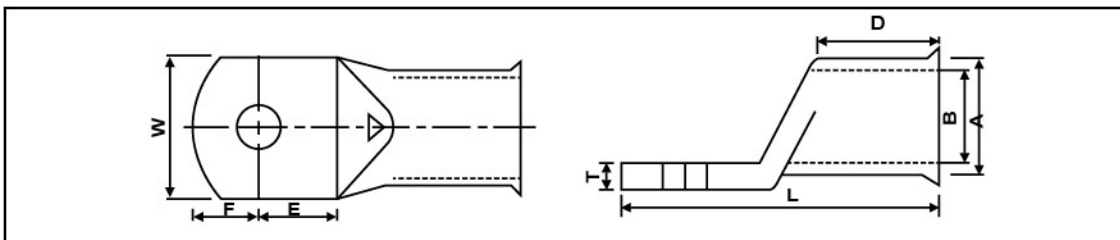
## Terminal Selection Chart

| Cond. Size | Barrel O.D.<br>'A' | Barrel I.D.<br>'B' | Stud Hole Center<br>'E' | Stud Hole Center To End of Palm<br>'F' | Palm Width<br>'W' | Barrel Length<br>'D' | Total Length<br>'L' | Thickness<br>'T' | Part No.     |
|------------|--------------------|--------------------|-------------------------|--|-------------------|----------------------|---------------------|------------------|--------------|
| 1.5        | 3.80               | 1.90               | 4.50                    | 4.50                                   | 7.00              | 7.00                 | 18.00               | 1.90             | BCT-BM-1.5-3 |
| 1.5        | 3.80               | 1.90               | 7.50                    | 4.50                                   | 7.00              | 7.00                 | 21.00               | 1.90             | BCT-BM-1.5-4 |
| 1.5        | 3.80               | 1.90               | 7.50                    | 4.50                                   | 8.00              | 7.00                 | 21.00               | 1.90             | BCT-BM-1.5-5 |
| 1.5        | 3.80               | 1.90               | 7.50                    | 4.50                                   | 9.00              | 7.00                 | 22.00               | 1.90             | BCT-BM-1.5-6 |
| 2.5        | 3.90               | 2.40               | 4.00                    | 4.50                                   | 7.00              | 8.00                 | 18.50               | 1.50             | BCT-BM-2.5-3 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 4.50                                   | 7.00              | 8.00                 | 22.00               | 1.50             | BCT-BM-2.5-4 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 4.50                                   | 9.00              | 8.00                 | 22.00               | 1.50             | BCT-BM-2.5-5 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 5.50                                   | 9.50              | 8.00                 | 23.00               | 1.50             | BCT-BM-2.5-6 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 7.50                                   | 12.00             | 8.00                 | 25.00               | 1.50             | BCT-BM-2.5-8 |
| 4          | 4.70               | 2.80               | 4.50                    | 4.50                                   | 7.00              | 8.00                 | 19.00               | 1.90             | BCT-BM-4-3   |
| 4          | 4.70               | 2.80               | 7.50                    | 4.50                                   | 7.00              | 8.00                 | 22.00               | 1.90             | BCT-BM-4-4   |
| 4          | 4.70               | 2.80               | 7.50                    | 4.50                                   | 8.50              | 8.00                 | 22.00               | 1.90             | BCT-BM-4-5   |
| 4          | 4.70               | 2.80               | 7.50                    | 5.50                                   | 10.00             | 8.00                 | 23.00               | 1.90             | BCT-BM-4-6   |
| 4          | 4.70               | 2.80               | 10.50                   | 6.50                                   | 13.00             | 8.00                 | 27.00               | 1.90             | BCT-BM-4-8   |
| 4          | 4.70               | 2.80               | 11.50                   | 7.50                                   | 14.00             | 11.00                | 32.00               | 1.90             | BCT-BM-4-10  |
| 6          | 5.30               | 3.40               | 7.50                    | 4.50                                   | 7.50              | 8.50                 | 23.50               | 1.90             | BCT-BM-6-4   |

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# Copper Terminal - Straight Entry Type (SE)

**B I C C**  
COMPONENTS



## Copper Terminal - Straight Entry Type (SE)

- > **Straight Entry:**  
Our straight entry range allows cable insertion to be handled efficiently for the opening of the conductor.
- > **Inspection Hole:**  
The unique design of the inspection hole, helps the conductor to insert fully. The stopper at the end of the insertion allows the conductor to place itself rightly inside the surface area of the crimp.
- > **Application:**  
Suitable for low & medium voltage switch gear & control panel.

## Technical Specification

**Standard**  
**Material**

IEC 61238-1

Manufactured from seamless copper tube  
conforming to BS EN 12449:2012

**Finish**

Electro tin-plated conforming to BS EN 1872:1984

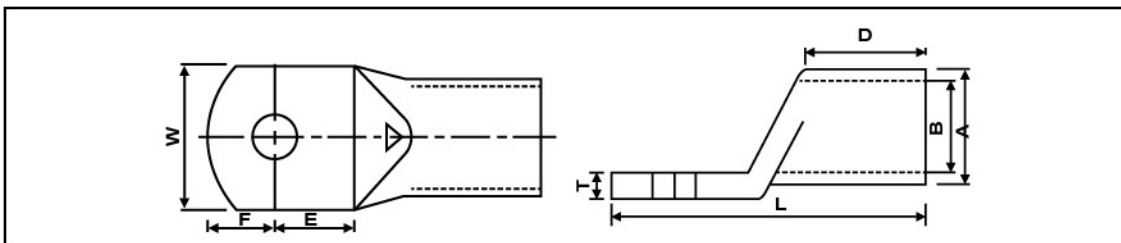
## Terminal Selection Chart

| Cond. Size | Barrel O.D.<br>'A' | Barrel I.D.<br>'B' | Stud Hole Center<br>'E' | Stud Hole Center To End of Palm<br>'F' | Palm Width<br>'W' | Barrel Length<br>'D' | Total Length<br>'L' | Thickness<br>'T' | Part No.     |
|------------|--------------------|--------------------|-------------------------|--|-------------------|----------------------|---------------------|------------------|--------------|
| 1.5        | 3.80               | 1.90               | 4.50                    | 4.50                                   | 7.00              | 7.00                 | 18.00               | 1.90             | BCT-SE-1.5-3 |
| 1.5        | 3.80               | 1.90               | 7.50                    | 4.50                                   | 7.00              | 7.00                 | 21.00               | 1.90             | BCT-SE-1.5-4 |
| 1.5        | 3.80               | 1.90               | 7.50                    | 4.50                                   | 8.00              | 7.00                 | 21.00               | 1.90             | BCT-SE-1.5-5 |
| 1.5        | 3.80               | 1.90               | 7.50                    | 4.50                                   | 9.00              | 7.00                 | 22.00               | 1.90             | BCT-SE-1.5-6 |
| 2.5        | 3.90               | 2.40               | 4.00                    | 4.50                                   | 7.00              | 8.00                 | 18.50               | 1.50             | BCT-SE-2.5-3 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 4.50                                   | 7.00              | 8.00                 | 22.00               | 1.50             | BCT-SE-2.5-4 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 4.50                                   | 9.00              | 8.00                 | 22.00               | 1.50             | BCT-SE-2.5-5 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 5.50                                   | 9.50              | 8.00                 | 23.00               | 1.50             | BCT-SE-2.5-6 |
| 2.5        | 3.90               | 2.40               | 7.50                    | 7.50                                   | 12.00             | 8.00                 | 25.00               | 1.50             | BCT-SE-2.5-8 |
| 4          | 4.70               | 2.80               | 4.50                    | 4.50                                   | 7.00              | 8.00                 | 19.00               | 1.90             | BCT-SE-4-3   |
| 4          | 4.70               | 2.80               | 7.50                    | 4.50                                   | 7.00              | 8.00                 | 22.00               | 1.90             | BCT-SE-4-4   |
| 4          | 4.70               | 2.80               | 7.50                    | 4.50                                   | 8.50              | 8.00                 | 22.00               | 1.90             | BCT-SE-4-5   |
| 4          | 4.70               | 2.80               | 7.50                    | 5.50                                   | 10.00             | 8.00                 | 23.00               | 1.90             | BCT-SE-4-6   |
| 4          | 4.70               | 2.80               | 10.50                   | 6.50                                   | 13.00             | 8.00                 | 27.00               | 1.90             | BCT-SE-4-8   |
| 4          | 4.70               | 2.80               | 11.50                   | 7.50                                   | 14.00             | 11.00                | 32.00               | 1.90             | BCT-SE-4-10  |
| 6          | 5.30               | 3.40               | 7.50                    | 4.50                                   | 7.50              | 8.50                 | 23.50               | 1.90             | BCT-SE-6-4   |

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**Terminal Selection Chart**

| Cond. Size | Barrel O.D.<br>'A' | Barrel I.D.<br>'B' | Stud Hole Center<br>'E' | Stud Hole Center To End of Palm<br>'F' | Palm Width<br>'W' | Barrel Length<br>'D' | Total Length<br>'L' | Thickness<br>'T' | Part No.     |
|------------|--------------------|--------------------|-------------------------|--|-------------------|----------------------|---------------------|------------------|--------------|
| 6          | 5.30               | 3.40               | 7.50                    | 4.50                                   | 8.50              | 8.50                 | 23.50               | 1.90             | BCT-BM-6-5   |
| 6          | 5.30               | 3.40               | 7.50                    | 5.50                                   | 9.50              | 9.00                 | 25.00               | 1.90             | BCT-BM-6-6   |
| 6          | 5.30               | 3.40               | 10.00                   | 7.00                                   | 12.00             | 9.00                 | 29.00               | 1.90             | BCT-BM-6-8   |
| 6          | 5.30               | 3.40               | 12.00                   | 8.00                                   | 15.00             | 11.00                | 34.00               | 1.90             | BCT-BM-6-10  |
| 10         | 6.60               | 4.70               | 6.40                    | 6.00                                   | 10.00             | 8.00                 | 24.00               | 1.70             | BCT-BM-10-6  |
| 10         | 6.60               | 4.70               | 8.00                    | 7.00                                   | 13.00             | 9.50                 | 30.00               | 1.20             | BCT-BM-10-8  |
| 10         | 7.10               | 4.40               | 12.00                   | 10.00                                  | 16.00             | 12.00                | 39.00               | 1.40             | BCT-BM-10-10 |
| 10         | 7.10               | 4.40               | 12.00                   | 10.00                                  | 18.00             | 10.00                | 39.00               | 1.20             | BCT-BM-10-12 |
| 16         | 7.50               | 5.50               | 8.80                    | 6.20                                   | 10.80             | 9.50                 | 30.00               | 2.00             | BCT-BM-16-6  |
| 16         | 7.50               | 5.50               | 8.80                    | 6.20                                   | 13.50             | 9.50                 | 30.00               | 1.60             | BCT-BM-16-8  |
| 16         | 7.50               | 5.50               | 10.90                   | 9.60                                   | 15.00             | 9.50                 | 36.00               | 1.50             | BCT-BM-16-10 |
| 16         | 8.00               | 5.60               | 12.00                   | 10.00                                  | 18.00             | 11.50                | 42.00               | 1.30             | BCT-BM-16-12 |
| 25         | 9.40               | 7.00               | 8.80                    | 6.50                                   | 13.80             | 12.00                | 32.50               | 2.40             | BCT-BM-25-6  |
| 25         | 9.40               | 7.00               | 8.00                    | 7.00                                   | 13.80             | 12.00                | 32.50               | 2.40             | BCT-BM-25-8  |
| 25         | 9.40               | 7.00               | 10.90                   | 9.60                                   | 16.00             | 13.00                | 39.50               | 2.10             | BCT-BM-25-10 |
| 25         | 9.40               | 7.00               | 10.50                   | 10.00                                  | 18.00             | 12.00                | 38.00               | 1.70             | BCT-BM-25-12 |
| 35         | 10.60              | 8.20               | 8.70                    | 6.30                                   | 15.30             | 14.00                | 36.00               | 2.40             | BCT-BM-35-6  |
| 35         | 10.60              | 8.20               | 7.60                    | 7.30                                   | 15.30             | 14.00                | 35.00               | 2.40             | BCT-BM-35-8  |
| 35         | 10.60              | 8.20               | 10.90                   | 9.60                                   | 15.30             | 14.00                | 40.50               | 2.40             | BCT-BM-35-10 |
| 35         | 10.60              | 8.20               | 10.00                   | 10.40                                  | 18.00             | 14.00                | 40.50               | 2.40             | BCT-BM-35-12 |
| 50         | 11.90              | 9.50               | 8.80                    | 6.20                                   | 17.40             | 14.90                | 37.00               | 2.50             | BCT-BM-50-6  |
| 50         | 11.90              | 9.50               | 8.00                    | 7.00                                   | 17.40             | 14.90                | 37.00               | 2.50             | BCT-BM-50-8  |
| 50         | 11.90              | 9.50               | 10.90                   | 9.60                                   | 17.40             | 15.50                | 42.50               | 2.50             | BCT-BM-50-10 |
| 50         | 11.90              | 9.50               | 10.70                   | 9.80                                   | 17.40             | 15.50                | 42.50               | 2.50             | BCT-BM-50-12 |
| 70         | 14.50              | 11.50              | 9.00                    | 6.40                                   | 20.90             | 17.00                | 41.50               | 3.00             | BCT-BM-70-6  |
| 70         | 14.50              | 11.50              | 8.60                    | 6.40                                   | 20.90             | 17.00                | 40.50               | 3.00             | BCT-BM-70-8  |
| 70         | 14.50              | 11.50              | 10.90                   | 9.60                                   | 20.90             | 17.00                | 46.00               | 3.00             | BCT-BM-70-10 |
| 70         | 14.50              | 11.50              | 10.70                   | 9.80                                   | 20.90             | 17.00                | 46.00               | 3.00             | BCT-BM-70-12 |
| 70         | 14.50              | 11.50              | 13.00                   | 13.00                                  | 20.90             | 17.00                | 51.00               | 3.00             | BCT-BM-70-16 |
| 95         | 16.70              | 13.50              | 10.00                   | 9.20                                   | 24.40             | 19.00                | 49.50               | 3.20             | BCT-BM-95-6  |
| 95         | 16.70              | 13.50              | 10.10                   | 9.90                                   | 24.40             | 19.00                | 49.50               | 3.20             | BCT-BM-95-8  |
| 95         | 16.70              | 13.50              | 10.90                   | 9.60                                   | 24.40             | 19.00                | 49.50               | 3.20             | BCT-BM-95-10 |
| 95         | 16.70              | 13.50              | 10.50                   | 10.00                                  | 24.40             | 19.00                | 49.50               | 3.20             | BCT-BM-95-12 |
| 95         | 16.70              | 13.50              | 13.00                   | 13.00                                  | 24.40             | 19.00                | 58.00               | 3.20             | BCT-BM-95-14 |
| 95         | 16.70              | 13.50              | 13.00                   | 13.00                                  | 24.40             | 19.00                | 59.00               | 3.20             | BCT-BM-95-16 |
| 120        | 19.00              | 15.00              | 14.40                   | 9.60                                   | 27.30             | 20.00                | 55.50               | 4.00             | BCT-BM-120-8 |

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**Terminal Selection Chart**

| Cond. Size | Barrel O.D.<br>'A' | Barrel I.D.<br>'B' | Stud Hole Center<br>'E' | Stud Hole Center To End of Palm<br>'F' | Palm Width<br>'W' | Barrel Length<br>'D' | Total Length<br>'L' | Thickness<br>'T' | Part No.      |
|------------|--------------------|--------------------|-------------------------|--|-------------------|----------------------|---------------------|------------------|---------------|
| 120        | 19.00              | 15.00              | 14.40                   | 9.60                                   | 27.30             | 20.00                | 55.50               | 4.00             | BCT-BM-120-10 |
| 120        | 19.00              | 15.00              | 14.00                   | 10.00                                  | 27.30             | 20.00                | 55.50               | 4.00             | BCT-BM-120-12 |
| 120        | 19.00              | 15.00              | 14.00                   | 14.00                                  | 27.30             | 20.00                | 64.00               | 4.00             | BCT-BM-120-16 |
| 150        | 21.00              | 16.50              | 14.00                   | 10.00                                  | 30.20             | 23.00                | 61.00               | 4.50             | BCT-BM-150-10 |
| 150        | 21.00              | 16.50              | 13.00                   | 13.00                                  | 30.20             | 23.00                | 61.00               | 4.50             | BCT-BM-150-12 |
| 150        | 21.00              | 16.50              | 13.00                   | 13.00                                  | 30.20             | 23.00                | 61.00               | 4.50             | BCT-BM-150-14 |
| 150        | 21.00              | 16.50              | 13.00                   | 13.00                                  | 30.20             | 23.00                | 65.00               | 4.50             | BCT-BM-150-16 |
| 185        | 23.00              | 18.50              | 14.80                   | 9.20                                   | 33.30             | 29.00                | 66.50               | 4.36             | BCT-BM-185-10 |
| 185        | 23.00              | 18.50              | 15.50                   | 9.20                                   | 33.30             | 29.00                | 68.00               | 4.50             | BCT-BM-185-12 |
| 185        | 23.00              | 18.50              | 15.50                   | 9.20                                   | 33.30             | 29.00                | 67.00               | 4.50             | BCT-BM-185-14 |
| 185        | 23.00              | 18.50              | 13.00                   | 13.00                                  | 33.30             | 29.00                | 70.00               | 4.50             | BCT-BM-185-16 |
| 240        | 26.00              | 21.00              | 18.00                   | 17.00                                  | 37.70             | 39.00                | 88.00               | 5.00             | BCT-BM-240-10 |
| 240        | 26.00              | 21.00              | 18.00                   | 17.00                                  | 37.70             | 40.00                | 88.00               | 5.00             | BCT-BM-240-12 |
| 240        | 26.00              | 21.00              | 18.00                   | 17.00                                  | 37.70             | 40.00                | 88.00               | 5.00             | BCT-BM-240-14 |
| 240        | 26.00              | 21.00              | 18.00                   | 17.00                                  | 37.70             | 40.00                | 88.00               | 5.00             | BCT-BM-240-16 |
| 240        | 26.00              | 21.00              | 18.00                   | 17.00                                  | 37.70             | 40.00                | 88.00               | 5.00             | BCT-BM-240-20 |
| 300        | 28.00              | 23.00              | 18.00                   | 17.00                                  | 41.00             | 37.00                | 97.00               | 5.00             | BCT-BM-300-10 |
| 300        | 28.00              | 23.00              | 18.00                   | 17.00                                  | 41.00             | 37.00                | 97.00               | 5.00             | BCT-BM-300-12 |
| 300        | 28.00              | 23.00              | 18.00                   | 17.00                                  | 41.00             | 37.00                | 97.00               | 5.00             | BCT-BM-300-14 |
| 300        | 28.00              | 23.00              | 18.00                   | 17.00                                  | 41.00             | 37.00                | 97.00               | 5.00             | BCT-BM-300-16 |
| 300        | 28.00              | 23.00              | 18.00                   | 17.00                                  | 41.00             | 37.00                | 97.00               | 5.00             | BCT-BM-300-20 |
| 400        | 32.00              | 27.00              | 22.00                   | 22.00                                  | 47.30             | 38.00                | 108.00              | 5.00             | BCT-BM-400-10 |
| 400        | 32.00              | 27.00              | 22.00                   | 22.00                                  | 47.30             | 38.00                | 108.00              | 5.00             | BCT-BM-400-12 |
| 400        | 32.00              | 27.00              | 22.00                   | 22.00                                  | 47.30             | 38.00                | 108.00              | 5.00             | BCT-BM-400-14 |
| 400        | 32.00              | 27.00              | 22.00                   | 22.00                                  | 47.30             | 38.00                | 108.00              | 5.00             | BCT-BM-400-16 |
| 400        | 32.00              | 27.00              | 22.00                   | 22.00                                  | 47.30             | 38.00                | 108.00              | 5.00             | BCT-BM-400-20 |
| 500        | 36.00              | 30.00              | 28.00                   | 24.00                                  | 53.00             | 38.00                | 117.00              | 6.90             | BCT-BM-500-10 |
| 500        | 36.00              | 30.00              | 28.00                   | 24.00                                  | 53.00             | 38.00                | 117.00              | 6.90             | BCT-BM-500-12 |
| 500        | 36.00              | 30.00              | 28.00                   | 24.00                                  | 53.00             | 38.00                | 117.00              | 6.90             | BCT-BM-500-14 |
| 500        | 36.00              | 30.00              | 28.00                   | 24.00                                  | 53.00             | 38.00                | 117.00              | 6.90             | BCT-BM-500-16 |
| 500        | 36.00              | 30.00              | 28.00                   | 24.00                                  | 53.00             | 38.00                | 117.00              | 6.90             | BCT-BM-500-20 |
| 630        | 45.00              | 34.00              | 23.00                   | 25.10                                  | 63.30             | 48.00                | 129.00              | 10.00            | BCT-BM-630-20 |
| 800        | 49.00              | 38.00              | -                       | -                                      | 70.00             | 65.00                | 172.00              | 11.00            | BCT-BM-800    |
|            |                    |                    |                         |  |                   |                      |                     |                  |               |
|            |                    |                    |                         |  |                   |                      |                     |                  |               |
|            |                    |                    |                         |  |                   |                      |                     |                  |               |

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**Terminal Selection Chart**

| Cond. Size | Barrel O.D.<br>'A' | Barrel I.D.<br>'B' | Stud Hole Center<br>'E' | Stud Hole Center To End of Palm<br>'F' | Palm Width<br>'W' | Barrel Length<br>'D' | Total Length<br>'L' | Thickness<br>'T' | Part No.     |
|------------|--------------------|--------------------|-------------------------|--|-------------------|----------------------|---------------------|------------------|--------------|
| 6          | 5.30               | 3.40               | 7.50                    | 4.50                                   | 8.50              | 8.50                 | 23.50               | 1.90             | BCT-SE-6-5   |
| 6          | 5.30               | 3.40               | 7.50                    | 5.50                                   | 9.50              | 9.00                 | 25.00               | 1.90             | BCT-SE-6-6   |
| 6          | 5.30               | 3.40               | 10.00                   | 7.00                                   | 12.00             | 9.00                 | 29.00               | 1.90             | BCT-SE-6-8   |
| 6          | 5.30               | 3.40               | 12.00                   | 8.00                                   | 15.00             | 11.00                | 34.00               | 1.90             | BCT-SE-6-10  |
| 10         | 6.60               | 4.70               | 6.40                    | 6.00                                   | 10.00             | 8.00                 | 24.50               | 1.70             | BCT-SE-10-6  |
| 10         | 6.60               | 4.70               | 8.00                    | 7.00                                   | 13.00             | 9.50                 | 30.50               | 1.20             | BCT-SE-10-8  |
| 10         | 7.10               | 4.40               | 12.00                   | 10.00                                  | 16.00             | 12.00                | 39.50               | 1.40             | BCT-SE-10-10 |
| 10         | 7.10               | 4.40               | 12.00                   | 10.00                                  | 18.00             | 10.00                | 10.50               | 1.20             | BCT-SE-10-12 |
| 16         | 7.50               | 5.50               | 8.80                    | 6.20                                   | 10.80             | 9.50                 | 30.00               | 2.00             | BCT-SE-16-6  |
| 16         | 7.50               | 5.50               | 8.80                    | 6.20                                   | 13.50             | 9.50                 | 30.00               | 1.60             | BCT-SE-16-8  |
| 16         | 7.50               | 5.50               | 10.90                   | 9.60                                   | 15.00             | 9.50                 | 36.00               | 1.50             | BCT-SE-16-10 |
| 16         | 8.00               | 5.60               | 12.00                   | 10.00                                  | 18.00             | 11.50                | 42.00               | 1.30             | BCT-SE-16-12 |
| 25         | 9.40               | 7.00               | 8.80                    | 6.50                                   | 13.80             | 12.00                | 32.50               | 2.40             | BCT-SE-25-6  |
| 25         | 9.40               | 7.00               | 8.00                    | 7.00                                   | 13.80             | 12.00                | 32.50               | 2.40             | BCT-SE-25-8  |
| 25         | 9.40               | 7.00               | 10.90                   | 9.60                                   | 16.00             | 13.00                | 39.50               | 2.10             | BCT-SE-25-10 |
| 25         | 9.40               | 7.00               | 10.50                   | 10.00                                  | 18.00             | 12.50                | 39.00               | 1.70             | BCT-SE-25-12 |
| 35         | 10.60              | 8.20               | 8.70                    | 6.30                                   | 15.30             | 15.00                | 36.50               | 2.40             | BCT-SE-35-6  |
| 35         | 10.60              | 8.20               | 7.60                    | 7.30                                   | 15.30             | 15.00                | 36.50               | 2.40             | BCT-SE-35-8  |
| 35         | 10.60              | 8.20               | 10.90                   | 9.60                                   | 15.30             | 15.00                | 41.00               | 2.40             | BCT-SE-35-10 |
| 35         | 10.60              | 8.20               | 10.00                   | 10.40                                  | 18.00             | 15.00                | 41.00               | 2.40             | BCT-SE-35-12 |
| 50         | 11.90              | 9.50               | 8.80                    | 6.20                                   | 17.40             | 14.90                | 37.50               | 2.50             | BCT-SE-50-6  |
| 50         | 11.90              | 9.50               | 8.00                    | 7.00                                   | 17.40             | 14.90                | 37.50               | 2.50             | BCT-SE-50-8  |
| 50         | 11.90              | 9.50               | 10.90                   | 9.60                                   | 17.40             | 15.50                | 42.50               | 2.50             | BCT-SE-50-10 |
| 50         | 11.90              | 9.50               | 10.70                   | 9.80                                   | 17.40             | 15.50                | 42.50               | 2.50             | BCT-SE-50-12 |
| 70         | 14.50              | 11.50              | 9.00                    | 6.40                                   | 20.90             | 17.00                | 41.50               | 3.00             | BCT-SE-70-6  |
| 70         | 14.50              | 11.50              | 8.60                    | 6.40                                   | 20.90             | 17.00                | 40.50               | 3.00             | BCT-SE-70-8  |
| 70         | 14.50              | 11.50              | 10.90                   | 9.60                                   | 20.90             | 17.50                | 47.00               | 3.00             | BCT-SE-70-10 |
| 70         | 14.50              | 11.50              | 10.70                   | 9.80                                   | 20.90             | 17.50                | 46.50               | 3.00             | BCT-SE-70-12 |
| 70         | 14.50              | 11.50              | 13.00                   | 13.00                                  | 20.90             | 17.00                | 51.00               | 3.00             | BCT-SE-70-16 |
| 95         | 16.70              | 13.50              | 10.00                   | 9.20                                   | 24.40             | 19.00                | 50.00               | 3.20             | BCT-SE-95-6  |
| 95         | 16.70              | 13.50              | 10.10                   | 9.90                                   | 24.40             | 19.00                | 50.00               | 3.20             | BCT-SE-95-8  |
| 95         | 16.70              | 13.50              | 10.90                   | 9.60                                   | 24.40             | 19.00                | 50.00               | 3.20             | BCT-SE-95-10 |
| 95         | 16.70              | 13.50              | 10.50                   | 10.00                                  | 24.40             | 19.00                | 50.00               | 3.20             | BCT-SE-95-12 |
| 95         | 16.70              | 13.50              | 13.00                   | 13.00                                  | 24.40             | 19.00                | 58.00               | 3.20             | BCT-SE-95-14 |
| 95         | 16.70              | 13.50              | 13.00                   | 13.00                                  | 24.40             | 19.00                | 59.00               | 3.20             | BCT-SE-95-16 |
| 120        | 19.00              | 15.00              | 14.40                   | 9.60                                   | 27.30             | 20.00                | 55.50               | 4.00             | BCT-SE-120-8 |

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**Terminal Selection Chart**

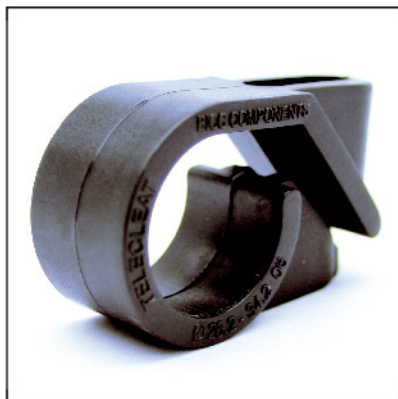
| Cond.<br>Size | Barrel<br>O.D.<br><br>'A' | Barrel<br>I.D.<br><br>'B' | Stud<br>Hole<br>Center<br>'E' | Stud Hole<br>Center To<br>End of Palm<br>'F' | Palm<br>Width<br><br>'W' | Barrel<br>Length<br><br>'D' | Total<br>Length<br><br>'L' | Thickness<br><br>'T' | Part No.      |
|---------------|---------------------------|---------------------------|-------------------------------|--|--------------------------|-----------------------------|----------------------------|----------------------|---------------|
| 120           | 19.00                     | 15.00                     | 14.40                         | 9.60   | 27.30                    | 20.00                       | 55.50                      | 4.00                 | BCT-SE-120-10 |
| 120           | 19.00                     | 15.00                     | 14.00                         | 10.00  | 27.30                    | 20.00                       | 56.50                      | 4.00                 | BCT-SE-120-12 |
| 120           | 19.00                     | 15.00                     | 14.00                         | 14.00  | 27.30                    | 20.00                       | 64.00                      | 4.00                 | BCT-SE-120-16 |
| 150           | 21.00                     | 16.50                     | 14.00                         | 10.00  | 30.20                    | 23.00                       | 61.00                      | 4.50                 | BCT-SE-150-10 |
| 150           | 21.00                     | 16.50                     | 13.00                         | 13.00  | 30.20                    | 23.00                       | 61.00                      | 4.50                 | BCT-SE-150-12 |
| 150           | 21.00                     | 16.50                     | 13.00                         | 13.00  | 30.20                    | 23.00                       | 61.00                      | 4.50                 | BCT-SE-150-14 |
| 150           | 21.00                     | 16.50                     | 13.00                         | 13.00  | 30.20                    | 23.00                       | 65.00                      | 4.50                 | BCT-SE-150-16 |
| 185           | 23.00                     | 18.50                     | 14.80                         | 9.20   | 33.30                    | 29.00                       | 66.50                      | 4.36                 | BCT-SE-185-10 |
| 185           | 23.00                     | 18.50                     | 15.50                         | 9.20   | 33.30                    | 29.00                       | 68.00                      | 4.50                 | BCT-SE-185-12 |
| 185           | 23.00                     | 18.50                     | 15.50                         | 9.20   | 33.30                    | 29.00                       | 67.00                      | 4.50                 | BCT-SE-185-14 |
| 185           | 23.00                     | 18.50                     | 13.00                         | 13.00  | 33.30                    | 29.00                       | 70.00                      | 4.50                 | BCT-SE-185-16 |
| 240           | 26.00                     | 21.00                     | 18.00                         | 17.00  | 37.70                    | 39.00                       | 88.00                      | 5.00                 | BCT-SE-240-10 |
| 240           | 26.00                     | 21.00                     | 18.00                         | 17.00  | 37.70                    | 40.00                       | 88.50                      | 5.00                 | BCT-SE-240-12 |
| 240           | 26.00                     | 21.00                     | 18.00                         | 17.00  | 37.70                    | 40.00                       | 88.00                      | 5.00                 | BCT-SE-240-14 |
| 240           | 26.00                     | 21.00                     | 18.00                         | 17.00  | 37.70                    | 40.00                       | 88.00                      | 5.00                 | BCT-SE-240-16 |
| 240           | 26.00                     | 21.00                     | 18.00                         | 17.00  | 37.70                    | 40.00                       | 88.00                      | 5.00                 | BCT-SE-240-20 |
| 300           | 28.00                     | 23.00                     | 18.00                         | 17.00  | 41.00                    | 37.00                       | 97.00                      | 5.00                 | BCT-SE-300-10 |
| 300           | 28.00                     | 23.00                     | 18.00                         | 17.00  | 41.00                    | 37.00                       | 97.00                      | 5.00                 | BCT-SE-300-12 |
| 300           | 28.00                     | 23.00                     | 18.00                         | 17.00  | 41.00                    | 37.00                       | 97.00                      | 5.00                 | BCT-SE-300-14 |
| 300           | 28.00                     | 23.00                     | 18.00                         | 17.00  | 41.00                    | 37.00                       | 97.00                      | 5.00                 | BCT-SE-300-16 |
| 300           | 28.00                     | 23.00                     | 18.00                         | 17.00  | 41.00                    | 37.00                       | 97.00                      | 5.00                 | BCT-SE-300-20 |
| 400           | 32.00                     | 27.00                     | 22.00                         | 22.00  | 47.30                    | 38.00                       | 108.00                     | 5.00                 | BCT-SE-400-10 |
| 400           | 32.00                     | 27.00                     | 22.00                         | 22.00  | 47.30                    | 38.00                       | 108.00                     | 5.00                 | BCT-SE-400-12 |
| 400           | 32.00                     | 27.00                     | 22.00                         | 22.00  | 47.30                    | 38.00                       | 108.00                     | 5.00                 | BCT-SE-400-14 |
| 400           | 32.00                     | 27.00                     | 22.00                         | 22.00  | 47.30                    | 38.00                       | 108.50                     | 5.00                 | BCT-SE-400-16 |
| 400           | 32.00                     | 27.00                     | 22.00                         | 22.00  | 47.30                    | 38.00                       | 108.00                     | 5.00                 | BCT-SE-400-20 |
| 500           | 36.00                     | 30.00                     | 28.00                         | 24.00  | 53.00                    | 38.00                       | 117.00                     | 6.90                 | BCT-SE-500-10 |
| 500           | 36.00                     | 30.00                     | 28.00                         | 24.00  | 53.00                    | 38.00                       | 117.00                     | 6.90                 | BCT-SE-500-12 |
| 500           | 36.00                     | 30.00                     | 28.00                         | 24.00  | 53.00                    | 38.00                       | 117.00                     | 6.90                 | BCT-SE-500-14 |
| 500           | 36.00                     | 30.00                     | 28.00                         | 24.00  | 53.00                    | 38.00                       | 117.50                     | 6.90                 | BCT-SE-500-16 |
| 500           | 36.00                     | 30.00                     | 28.00                         | 24.00  | 53.00                    | 38.00                       | 117.00                     | 6.90                 | BCT-SE-500-20 |
| 630           | 45.00                     | 34.00                     | 23.00                         | 25.10  | 63.30                    | 48.00                       | 130.50                     | 10.00                | BCT-SE-630-20 |
| 800           | 49.00                     | 38.00                     | -                             | -  | 70.00                    | 65.00                       | 172.00                     | 11.00                | BCT-SE-800    |
|               |                           |                           |                               |  |                          |                             |                            |                      |               |
|               |                           |                           |                               |  |                          |                             |                            |                      |               |
|               |                           |                           |                               |  |                          |                             |                            |                      |               |

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## Tele Cable Cleat (Single Way)



### Tele Cable Cleat (Single Way)

Single fixing cable cleats to fix power cables in indoor and outdoor applications.

- > Designed to assure cable retention and support, without causing damage or deformation to the cable.
- > Excellent resistance to ultraviolet and weather.
- > Single piece design
- > The curvature of the cleats mounting surface is appropriate for cable diameters 10mm to 51mm.

### Technical Specification

**Standard**

BS EN 50368

**Cable Type**

Designed for all types of cables

**Material**

Low Density Polyethylene (LDPE)

**Continuous Operating Temperature**

-40°C to +60°C

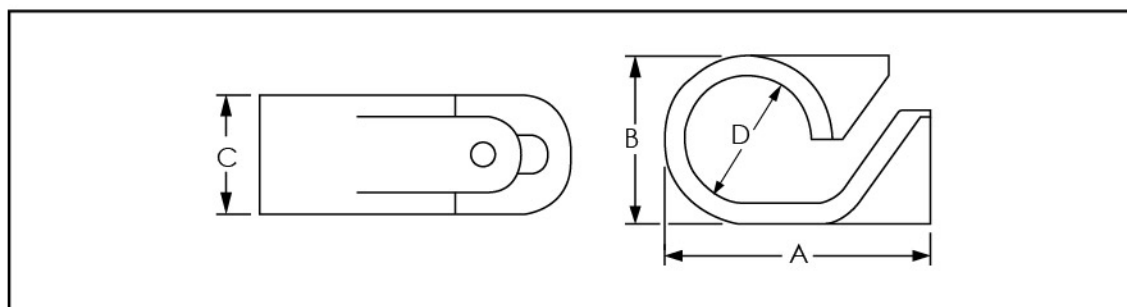
### Cable Cleat Selection Table

| Cable Diameter<br>'D' |      | Cleat Details |     |    |    | Order<br>Reference |
|-----------------------|------|---------------|-----|----|----|--------------------|
|                       |      | B             |     | A  | C  |                    |
| Min                   | Max  | Min           | Max |    |    |                    |
| 10.5                  | 14.5 | 15            | 18  | 32 | 12 | TCC01              |
| 12.2                  | 16.7 | 17            | 22  | 36 | 14 | TCC02              |
| 14.6                  | 19.8 | 21            | 26  | 43 | 16 | TCC03              |
| 17.7                  | 24.0 | 25            | 31  | 51 | 18 | TCC04              |
| 21.7                  | 28.5 | 30            | 37  | 57 | 20 | TCC05              |
| 26.2                  | 34.2 | 35            | 43  | 65 | 22 | TCC06              |
| 31.9                  | 41.6 | 42            | 52  | 78 | 25 | TCC07              |
| 39.3                  | 51.1 | 50            | 62  | 91 | 26 | TCC08              |

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Photographs are not a true representation of the product above.

Disclaimer: The dimensions provided are for guidance only and BICC Components Ltd reserves the right to change these without prior notification. For any critical application please contact the sales office to check the latest data.





# LSOH Tele Cable Cleat



## LSOH Tele Cable Cleat (Single Way)

Single fixing LSOH cable cleats to fix power cables in indoor and outdoor applications.

- > Designed to assure cable retention and support, without causing damage or deformation to the cable.
- > Excellent resistance to ultraviolet and weather.
- > Single piece design.
- > The curvature of the cleat mounting surface is appropriate for cable diameters 10mm to 51mm.

## Technical Specification

**Standard**

**Cable Type**

**Material**

**Continuous Operating Temperature**

BS EN 50368

Designed for all types of cables

Low Smoke Zero Halogen Polymer

-40°C to +60°C

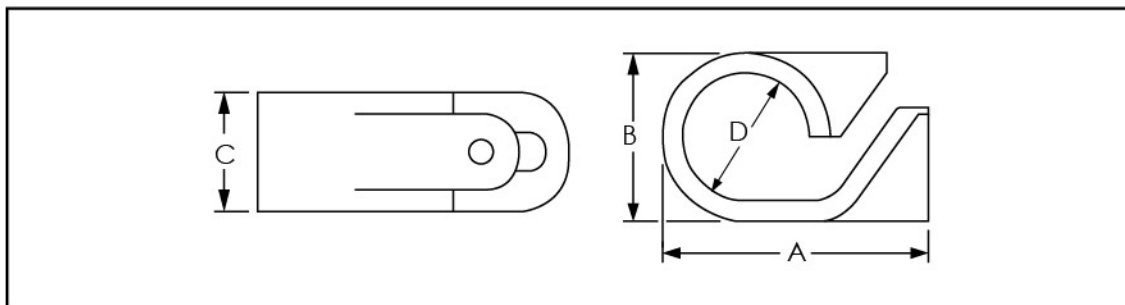
## Cable Cleat Selection Table

| Cable Diameter<br>'D' |      | Cleat Details |     |    |    | Order<br>Reference |
|-----------------------|------|---------------|-----|----|----|--------------------|
|                       |      | B             |     | A  | C  |                    |
| Min                   | Max  | Min           | Max |    |    |                    |
| 10.5                  | 14.5 | 15            | 18  | 32 | 12 | TCCLSF01           |
| 12.2                  | 16.7 | 17            | 22  | 36 | 14 | TCCLSF02           |
| 14.6                  | 19.8 | 21            | 26  | 43 | 16 | TCCLSF03           |
| 17.7                  | 24.0 | 25            | 31  | 51 | 18 | TCCLSF04           |
| 21.7                  | 28.5 | 30            | 37  | 57 | 20 | TCCLSF05           |
| 26.2                  | 34.2 | 35            | 43  | 65 | 22 | TCCLSF06           |
| 31.9                  | 41.6 | 42            | 52  | 78 | 25 | TCCLSF07           |
| 39.3                  | 51.1 | 50            | 62  | 91 | 26 | TCCLSF08           |

Dimensions are displayed in millimeters unless otherwise stated.

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## Two Bolt Cable Cleat



### Two Bolt Cable Cleat

Two bolt cable cleat, for use with all types of LV cables.

- > Designed to assure cable retention and support, without causing damage or deformation to the cable.
- > Excellent resistance to ultraviolet and weather.
- > Two bolt, two piece design.
- > Appropriate for cable diameters ranging from 50mm to 94mm.

### Technical Specification

**Standard**

BS EN 50368

**Cable Type**

Designed for all types of cables

**Material**

High Density Polypropylene

**Continuous Operating Temperature**

-40°C to +60°C

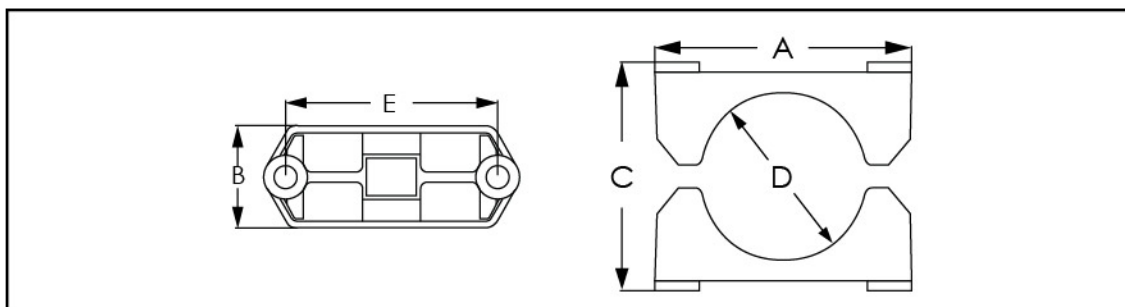
### Cable Cleat Selection Table

| Cable Diameter<br>'D' |     | Cleat Details |     |    |     | Order<br>Reference |
|-----------------------|-----|---------------|-----|----|-----|--------------------|
|                       |     | C             | A   | B  | E   |                    |
| Min                   | Max |               |     |    |     |                    |
| 50                    | 58  | 89            | 102 | 45 | 80  | TB01               |
| 56                    | 64  | 93            | 102 | 45 | 80  | TB02               |
| 62                    | 70  | 98            | 114 | 45 | 92  | TB03               |
| 68                    | 76  | 104           | 114 | 50 | 92  | TB04               |
| 74                    | 82  | 110           | 126 | 50 | 104 | TB05               |
| 80                    | 88  | 118           | 126 | 50 | 104 | TB06               |
| 86                    | 94  | 121           | 136 | 60 | 114 | TB07               |

Dimensions are displayed in millimeters unless otherwise stated.

Photographs are not a true representation of the product above.

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# LSOH Two Bolt Cable Cleat

## LSOH Two Bolt Cable Cleat

Two bolt LSOH cable cleat, for use with LV LSOH cables.

- > Designed to assure cable retention and support, without causing damage or deformation to the cable.
- > Excellent resistance to ultraviolet and weather.
- > Two bolt, two piece design.
- > Appropriate for cable diameters ranging from 50mm to 94mm.

## Technical Specification

**Standard**

BS EN 50368

**Cable Type**

Designed for all types of LSOH cables

**Material**

Low Smoke Zero Halogen Polymer

**Continuous Operating Temperature**

-40°C to +60°C

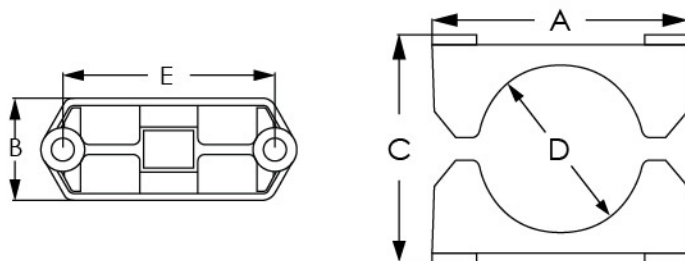
## Cable Cleat Selection Table

| Cable Diameter<br>'D' |     | Cleat Details |     |    |     | Order<br>Reference |
|-----------------------|-----|---------------|-----|----|-----|--------------------|
| Min                   | Max | C             | A   | B  | E   |                    |
| 50                    | 58  | 89            | 102 | 45 | 80  | TBLSF01            |
| 56                    | 64  | 93            | 102 | 45 | 80  | TBLSF02            |
| 62                    | 70  | 98            | 114 | 45 | 92  | TBLSF03            |
| 68                    | 76  | 104           | 114 | 50 | 92  | TBLSF04            |
| 74                    | 82  | 110           | 126 | 50 | 104 | TBLSF05            |
| 80                    | 88  | 118           | 126 | 50 | 104 | TBLSF06            |
| 86                    | 94  | 121           | 136 | 60 | 114 | TBLSF07            |

Dimensions are displayed in millimeters unless otherwise stated.

Photographs are not a true representation of the product above.

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## Aluminium Cable Cleat Trefoil Type ATFC (SP)



### Aluminium Cable Cleat Trefoil Type ATFC (SP)

- > Suitable for use with LV, MV and HV cables.
- > Few range accommodates wide range of cable dia.
- > Operating temperature -60°C to +100°C

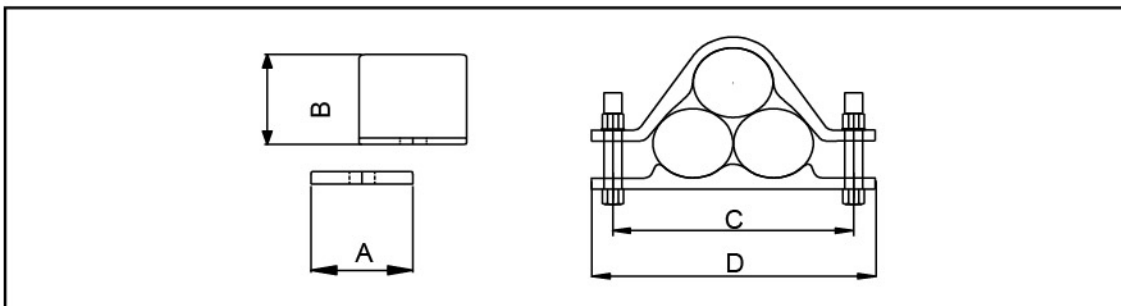
**Cable Gland Selection Table**

| Cable Diameter | Cleat Details |     |     |     | Order Reference |
|----------------|---------------|-----|-----|-----|-----------------|
|                | A             | B   | C   | D   |                 |
| 15-30          | 30            | 45  | 108 | 80  | ATFCSP15-30     |
| 30-45          | 30            | 66  | 151 | 120 | ATFCSP30-45     |
| 45-60          | 40            | 85  | 184 | 151 | ATFCSP45-60     |
| 60-75          | 40            | 114 | 226 | 193 | ATFCSP60-75     |
| 75-90          | 40            | 142 | 267 | 235 | ATFCSP75-90     |
| 90-107         | 50            | 171 | 319 | 282 | ATFCSP90-107    |
| 107-129        | 57            | 203 | 390 | 352 | ATFCSP107-129   |
| 129-155        | 57            | 244 | 455 | 397 | ATFCSP129-155   |

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## Aluminium Cable Cleat (Two Bolt)

Suitable for use with cables from diameter 51mm to 114mm

- > Two piece two fixing design
- > Can be double stacked on common fixing
- > Operating temperature – 60° C to + 100° C
- > Two bolt fixing type (ATC)
- > Plain finish - for indoor dry normal industrial use or outdoor unpolluted areas. Epoxy coated for more hostile conditions.

**Cable Cleat Selection Table**

| Cable Diameter Range | Cleat Details |     |    |     | Fixing Hole | Order Reference |
|----------------------|---------------|-----|----|-----|-------------|-----------------|
|                      | W             | H   | D  | P   |             |                 |
| 51-57                | 96            | 68  | 59 | 76  | M10         | ATC-51-57       |
| 57-64                | 6             | 75  | 49 | 76  | M10         | ATC-57-64       |
| 64-70                | 96            | 84  | 64 | 118 | M10         | ATC-64-70       |
| 70-76                | 134           | 90  | 64 | 114 | M10         | ATC-70-76       |
| 76-83                | 142           | 96  | 64 | 114 | M12         | ATC-76-83       |
| 83-89                | 142           | 102 | 64 | 114 | M12         | ATC-83-89       |
| 89-95                | 154           | 114 | 64 | 114 | M12         | ATC-89-95       |
| 95-101               | 154           | 120 | 76 | 126 | M12         | ATC-95-101      |
| 101-108              | 169           | 134 | 76 | 140 | M12         | ATC-101-108     |
| 108-114              | 169           | 140 | 76 | 149 | M12         | ATC-108-114     |

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