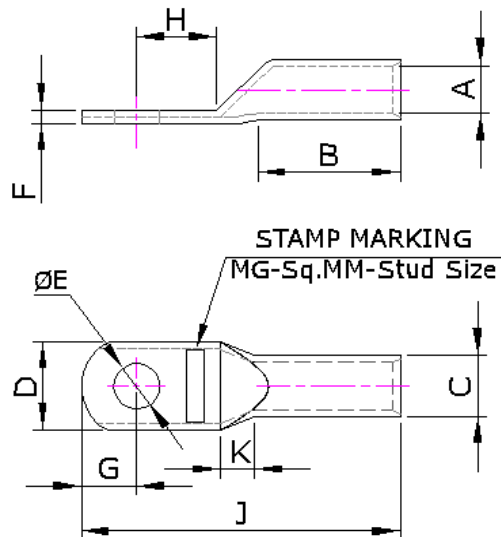


## Copper Tubular Terminal Ends REF: I.C.F.



### Technical Specification

**Material:** Copper BS 1977:1976 & IS 1897

**Surface:** Tin-plated to protect against corrosion

**Minimum operating temperature:** -50 °C

**Maximum operating temperature:** 150 °C

**Reference standard:** Indian Standards

### Features

- Annealed material optimizes material and crimping properties
- ETP Electrolytic Grade Copper.
- Tin-plated 5 micron plus to protect against corrosion.
- Crack free crimping.
- Bur free connection surface.
- Lowest millivolt drop for DC current application.
- Simple and safe connection.
- Terminate power cables in high-voltage applications.
- Provided with inspection hole to ensure the conductor has been fully inserted before crimping is done.

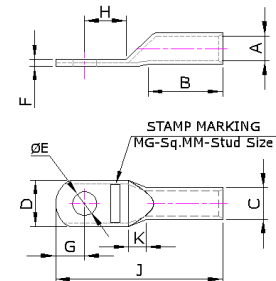
## Copper Tubular Terminal Ends REF: I.C.F.

- Flat contact surface to avoid hotspot.

### COPPER TUBULAR ENDS REF: I.C.F

MATERIAL : COPPER BS 1977:1976 & IS 191:2007

SURFACE: TIN PLATED



| Size mm <sup>2</sup> | E    | A    | C    | D    | F   | B  | K | H  | G  | J  | MG CAT NO. | Crim- ping Tools Code |
|----------------------|------|------|------|------|-----|----|---|----|----|----|------------|-----------------------|
| 11-17                | 5.2  | 6    | 8.5  | 11.9 | 2.5 | 14 | 3 | 10 | 6  | 33 | 319-106    | MG-50BS               |
| 17-23                | 5.2  | 7.1  | 10.2 | 14.3 | 3.1 | 18 | 4 | 10 | 7  | 39 | 319-107    | MG-50BS               |
| 17-23                | 10.2 | 7.1  | 10.2 | 19   | 2.2 | 18 | 4 | 12 | 10 | 44 | 319-108    | MG-50BS               |
| 11-17                | 10.2 | 6    | 8.5  | 16   | 1.7 | 14 | 3 | 11 | 9  | 37 | 319-109    | MG-50BS               |
| 23-29                | 5.2  | 8    | 11.7 | 16.3 | 3.7 | 18 | 4 | 11 | 8  | 41 | 319-110    | MG-50BS               |
| 23-29                | 13   | 8    | 11.7 | 20   | 2.8 | 18 | 4 | 14 | 11 | 47 | 319-111    | MG-50BS               |
| 45-57                | 6.5  | 11.1 | 15.8 | 22.2 | 4.7 | 24 | 6 | 15 | 11 | 56 | 319-112    | MG-120H               |
| 29-45                | 13   | 9.8  | 13.7 | 22   | 3.2 | 18 | 5 | 14 | 11 | 48 | 319-113    | MG-120H               |
| 57-75                | 6.5  | 12.6 | 17.8 | 25   | 5.2 | 24 | 6 | 15 | 13 | 58 | 319-114    | MG-300H               |
| 90-110               | 6.5  | 15.3 | 20.9 | 29.6 | 5.6 | 24 | 6 | 17 | 15 | 62 | 319-115    | MG-300H               |

## Copper Tubular Terminal Ends REF: I.C.F.

| Size<br>mm2 | E    | A    | C    | D    | F    | B  | K  | H  | G  | J   | MG CAT<br>NO. | Crim- ping<br>Tools Code |
|-------------|------|------|------|------|------|----|----|----|----|-----|---------------|--------------------------|
| 29-45       | 5.2  | 9.8  | 13.7 | 19.3 | 3.9  | 18 | 5  | 10 | 10 | 43  | 319-116       | MG-120H                  |
| 146-183     | 10.2 | 19.8 | 26.9 | 38.2 | 7.1  | 29 | 8  | 21 | 18 | 76  | 319-128       | MG-300H                  |
| 75-90       | 6.5  | 13.7 | 19.1 | 26.9 | 5.4  | 24 | 6  | 16 | 13 | 59  | 319-137       | MG-300H                  |
| 110-146     | 8.2  | 17.5 | 24   | 34   | 6.5  | 29 | 7  | 18 | 17 | 71  | 319-138       | MG-300H                  |
| 183-225     | 10.2 | 21.9 | 29.7 | 42.2 | 7.8  | 29 | 9  | 24 | 21 | 83  | 319-139       | MG-300H                  |
| 225-299     | 13   | 25.4 | 34   | 48.5 | 8.6  | 29 | 10 | 26 | 24 | 89  | 319-140       | MG-1000                  |
| 299-366     | 13   | 28   | 37.6 | 53.6 | 9.6  | 38 | 11 | 29 | 27 | 105 | 319-141       | MG-1000                  |
| 366-437     | 13   | 30.5 | 41.7 | 59.1 | 11.2 | 38 | 12 | 32 | 29 | 111 | 319-142       | MG-1000                  |
| 11-17       | 6.5  | 6    | 8.5  | 11.9 | 2.5  | 14 | 3  | 10 | 6  | 33  | 319-145       | MG-50BS                  |
| 11-17       | 8.2  | 6    | 8.5  | 16   | 1.7  | 14 | 3  | 11 | 9  | 37  | 319-146       | MG-50BS                  |
| 17-23       | 6.5  | 7.1  | 10.2 | 14.3 | 3.1  | 18 | 4  | 10 | 7  | 39  | 319-147       | MG-50BS                  |
| 17-23       | 8.2  | 7.1  | 10.2 | 14.3 | 3.1  | 18 | 4  | 10 | 7  | 39  | 319-148       | MG-50BS                  |
| 23-29       | 6.5  | 8    | 11.7 | 16.3 | 3.7  | 18 | 4  | 11 | 8  | 41  | 319-149       | MG-50BS                  |
| 23-29       | 8.2  | 8    | 11.7 | 16.3 | 3.7  | 18 | 4  | 11 | 8  | 41  | 319-150       | MG-50BS                  |
| 23-29       | 10.2 | 8    | 11.7 | 20   | 2.8  | 18 | 4  | 14 | 11 | 47  | 319-151       | MG-50BS                  |
| 29-45       | 6.5  | 9.8  | 13.7 | 19.3 | 3.9  | 18 | 5  | 10 | 10 | 43  | 319-152       | MG-120H                  |
| 29-45       | 8.2  | 9.8  | 13.7 | 19.3 | 3.9  | 18 | 5  | 10 | 10 | 43  | 319-153       | MG-120H                  |
| 29-45       | 10.2 | 9.8  | 13.7 | 19.3 | 3.9  | 18 | 5  | 10 | 10 | 43  | 319-154       | MG-120H                  |
| 45-57       | 8.2  | 11.1 | 15.8 | 22.2 | 4.7  | 24 | 6  | 15 | 11 | 56  | 319-155       | MG-120H                  |

## Copper Tubular Terminal Ends REF: I.C.F.

| Size<br>mm2 | E    | A    | C    | D    | F   | B  | K  | H  | G  | J   | MG CAT<br>NO. | Crim- ping<br>Tools Code |
|-------------|------|------|------|------|-----|----|----|----|----|-----|---------------|--------------------------|
| 45-57       | 10.2 | 11.1 | 15.8 | 22.2 | 4.7 | 24 | 6  | 15 | 11 | 56  | 319-156       | MG-120H                  |
| 45-57       | 13   | 11.1 | 15.8 | 22.2 | 4.7 | 24 | 6  | 15 | 11 | 56  | 319-157       | MG-120H                  |
| 57-75       | 8.2  | 12.6 | 17.8 | 25   | 5.2 | 24 | 6  | 15 | 13 | 58  | 319-158       | MG-300H                  |
| 57-75       | 10.2 | 12.6 | 17.8 | 25   | 5.2 | 24 | 6  | 15 | 13 | 58  | 319-159       | MG-300H                  |
| 57-75       | 13   | 12.6 | 17.8 | 25   | 5.2 | 24 | 6  | 15 | 13 | 58  | 319-160       | MG-300H                  |
| 75-90       | 8.2  | 13.7 | 19.1 | 26.9 | 5.4 | 24 | 6  | 16 | 13 | 59  | 319-161       | MG-300H                  |
| 75-90       | 10.2 | 13.7 | 19.1 | 26.9 | 5.4 | 24 | 6  | 16 | 13 | 59  | 319-162       | MG-300H                  |
| 75-90       | 13   | 13.7 | 19.1 | 26.9 | 5.4 | 24 | 6  | 16 | 13 | 59  | 319-163       | MG-300H                  |
| 90-110      | 8.2  | 15.3 | 20.9 | 29.6 | 5.6 | 24 | 6  | 17 | 15 | 62  | 319-164       | MG-300H                  |
| 90-110      | 10.2 | 15.3 | 20.9 | 29.6 | 5.6 | 24 | 6  | 17 | 15 | 62  | 319-165       | MG-300H                  |
| 90-110      | 13   | 15.3 | 20.9 | 29.6 | 5.6 | 24 | 6  | 17 | 15 | 62  | 319-166       | MG-300H                  |
| 110-146     | 10.2 | 17.5 | 24   | 34   | 6.5 | 29 | 7  | 18 | 17 | 71  | 319-167       | MG-300H                  |
| 110-146     | 13   | 17.5 | 24   | 34   | 6.5 | 29 | 7  | 18 | 17 | 71  | 319-168       | MG-300H                  |
| 110-146     | 17   | 17.5 | 24   | 34   | 6.5 | 29 | 7  | 18 | 17 | 71  | 319-169       | MG-300H                  |
| 146-183     | 13   | 19.8 | 26.9 | 38.2 | 7.1 | 29 | 8  | 21 | 18 | 76  | 319-170       | MG-300H                  |
| 146-183     | 17   | 19.8 | 26.9 | 38.2 | 7.1 | 29 | 8  | 21 | 18 | 76  | 319-171       | MG-300H                  |
| 183-225     | 13   | 21.9 | 29.7 | 42.2 | 7.8 | 29 | 9  | 24 | 21 | 83  | 319-172       | MG-300H                  |
| 183-225     | 17   | 21.9 | 29.7 | 42.2 | 7.8 | 29 | 9  | 24 | 21 | 83  | 319-173       | MG-300H                  |
| 183-225     | 21   | 21.9 | 29.7 | 42.2 | 7.8 | 29 | 9  | 24 | 21 | 83  | 319-174       | MG-300H                  |
| 225-299     | 17   | 25.4 | 34   | 48.5 | 8.6 | 29 | 10 | 26 | 24 | 89  | 319-175       | MG-1000                  |
| 225-299     | 21   | 25.4 | 34   | 48.5 | 8.6 | 29 | 10 | 26 | 24 | 89  | 319-176       | MG-1000                  |
| 299-366     | 17   | 28   | 37.6 | 53.6 | 9.6 | 38 | 11 | 29 | 27 | 105 | 319-177       | MG-1000                  |

## Copper Tubular Terminal Ends REF: I.C.F.

| Size<br>mm <sup>2</sup> | E  | A    | C    | D    | F    | B  | K  | H  | G  | J   | MG CAT<br>NO. | Crim- ping<br>Tools Code |
|-------------------------|----|------|------|------|------|----|----|----|----|-----|---------------|--------------------------|
| 299-366                 | 21 | 28   | 37.6 | 53.6 | 9.6  | 38 | 11 | 29 | 27 | 105 | 319-178       | MG-1000                  |
| 366-437                 | 17 | 30.5 | 41.7 | 59.1 | 11.2 | 38 | 12 | 32 | 29 | 111 | 319-179       | MG-1000                  |
| 366-437                 | 21 | 30.5 | 41.7 | 59.1 | 11.2 | 38 | 12 | 32 | 29 | 111 | 319-180       | MG-1000                  |

\*Can be Manufactured as per CLW & DLW

\*All dimensions  
are in mm

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