

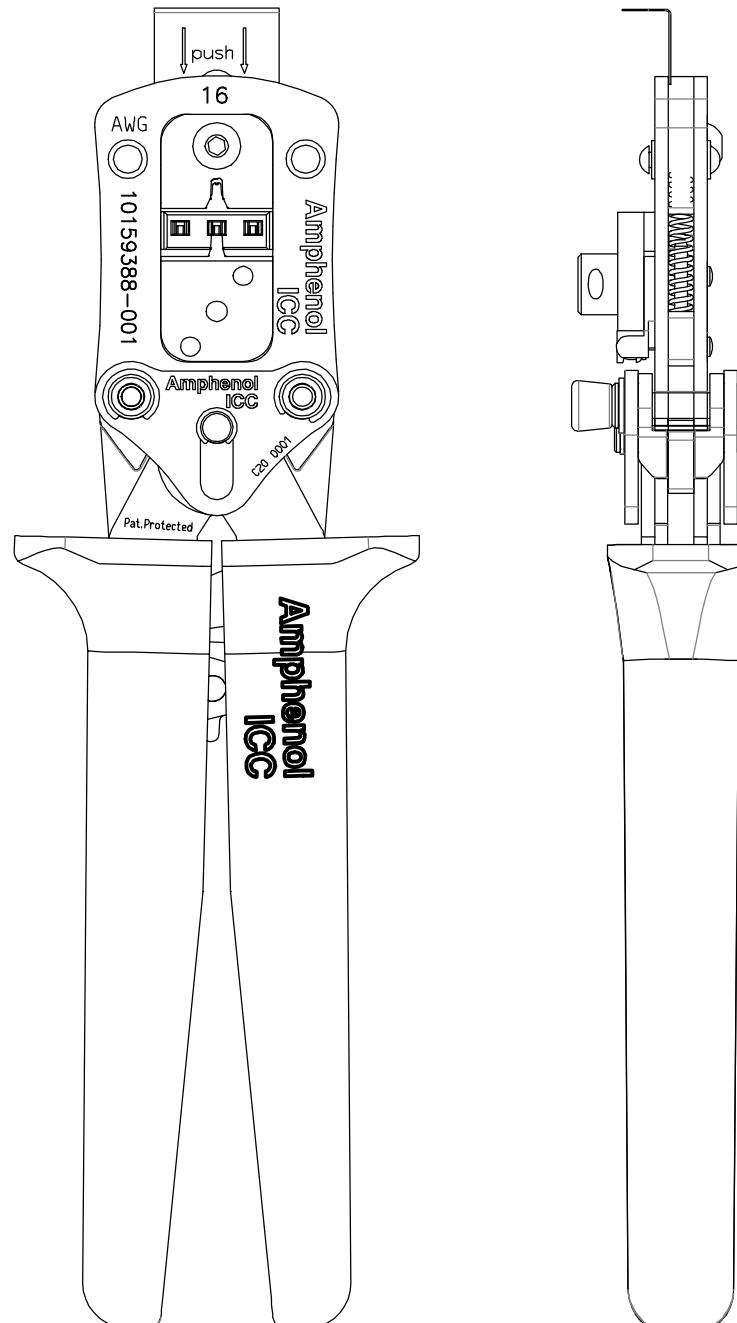
## PART NUMBER

10159388-001

## NOTE:

TERMINAL HAND CRIMPING TOOL

1. AWG RANGE : 16 AWG
2. FOR CRIMP DETAILS PLEASE REFER APPLICATION SPEC : GS-20-0410



## APPLICATION RANGE:

| TOOL PART NUMBER | AWG RANGE | CONTACT SERIES       | CONTACT PART NUMBER                | CRIMP HEIGHT WIRE | CRIMP WIDTH WIRE | CRIMP HEIGHT INSULATION | CRIMP WIDTH INSULATION |
|------------------|-----------|----------------------|------------------------------------|-------------------|------------------|-------------------------|------------------------|
| 10159388-001     | 16        | 10134170<br>10147578 | 10134170-YX10LF<br>10147578-XX1XLF | 1.25-1.35         | 1.80-1.90        | 2.74 Ref                | 2.71-2.91              |

|             |          |       |            |                                       |             |            |            |                |
|-------------|----------|-------|------------|---------------------------------------|-------------|------------|------------|----------------|
| mat'l. code |          |       |            | surface                               |             | tolerance  | projection | product family |
| ltr         | ecn no   | dr    | date       | ISO 1302                              |             | ISO 406    |            | MINITEK POWER  |
| A           | -        | VIPIN | 2022-04-11 | tolerances unless otherwise specified |             |            |            |                |
|             |          |       |            | angles                                | linear      | .0±0.30    | mm         |                |
|             |          |       |            |                                       |             | .00±0.20   |            |                |
|             |          |       |            | 0°±2°                                 |             | .000±0.10  | scale 1:1  |                |
|             |          |       |            | dr                                    | VIPIN M.G   | 2022-04-11 |            |                |
|             |          |       |            | engr                                  | MITHUN PAUL | 2022-04-11 |            |                |
|             |          |       |            | chr                                   | MITHUN PAUL | 2022-04-11 |            |                |
|             |          |       |            | appd                                  | SPK         | 2022-04-11 |            |                |
| sheet       | revision | A     | A          | A                                     | A           | A          |            |                |
| index       | sheet    | 1     | 2          | 3                                     | 4           | 5          |            |                |

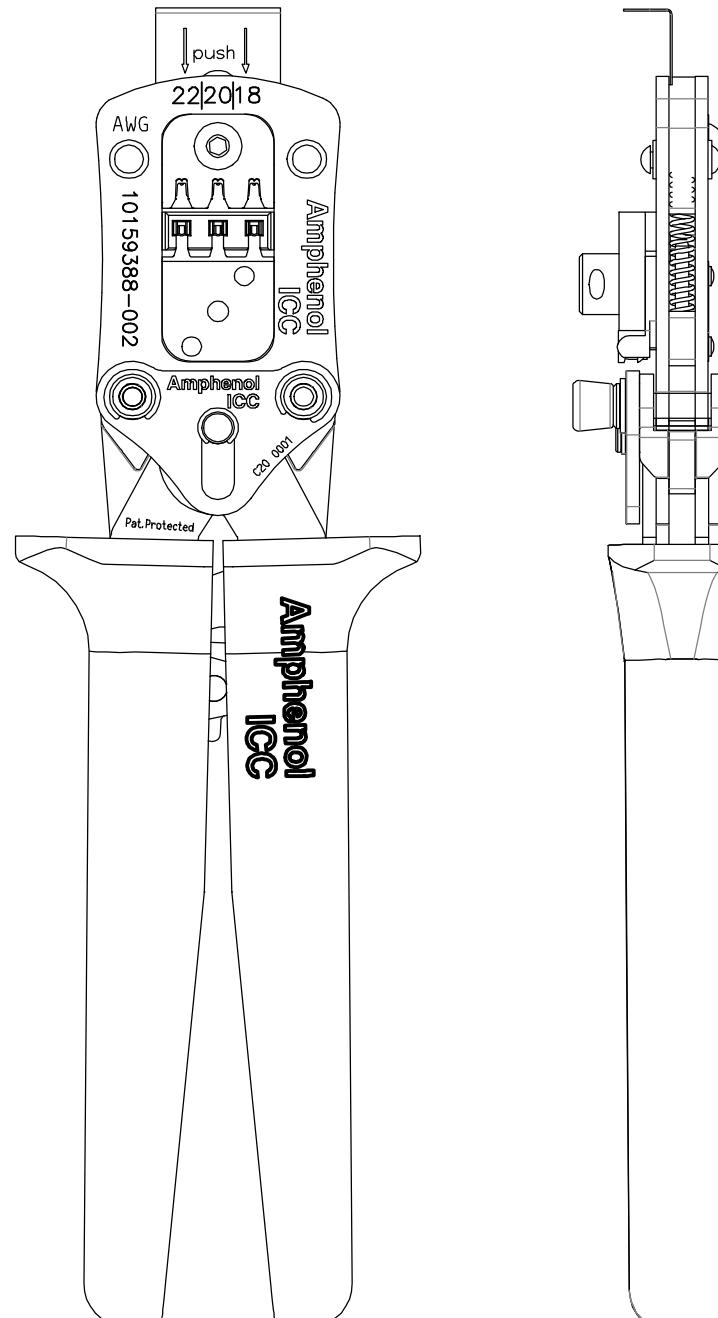
## PART NUMBER

10159388-002

## NOTE:

TERMINAL HAND CRIMPING TOOL

1. AWG RANGE : 18-22 AWG

2. FOR CRIMP DETAILS PLEASE REFER  
APPLICATION SPEC : GS-20-0410

## APPLICATION RANGE:

| TOOL PART NUMBER | AWG RANGE | CONTACT SERIES       | CONTACT PART NUMBER                | CRIMP HEIGHT WIRE | CRIMP WIDTH WIRE | CRIMP HEIGHT INSULATION | CRIMP WIDTH INSULATION |
|------------------|-----------|----------------------|------------------------------------|-------------------|------------------|-------------------------|------------------------|
| 10159388-002     | 18        | 10127817<br>10130517 | 10127817-XX1XLF<br>10130517-1X1XLF | 1.05-1.15         | 1.55-1.65        | 3.10 REF                | 3.00-3.20              |
|                  | 20        |                      | 10136289<br>10127818               | 0.95-1.05         | 1.55-1.65        | 3.02 REF                | 2.65-2.85              |
|                  | 22        | 10136290             | 10127818-XX1XLF<br>10136290-1X1XLF | 0.87-0.97         | 1.55-1.65        | 2.94 REF                | 2.50-2.70              |
|                  |           |                      |                                    |                   |                  |                         |                        |

|             |          |      |             |                                       |               |            |                |
|-------------|----------|------|-------------|---------------------------------------|---------------|------------|----------------|
| mat'l. code |          |      |             | surface                               | tolerance     | projection | product family |
| ltr         | ecn no   | dr   | date        | ISO 1302                              | ✓ ISO 406 ISO | 101        | MINITEK POWER  |
|             |          |      |             | tolerances unless otherwise specified |               |            |                |
|             |          |      |             | angles                                | .0±0.30       | mm         |                |
|             |          |      |             | linear                                | .00±0.20      |            |                |
|             |          |      |             | 0°±2°                                 | .000±0.10     | scale 1:1  |                |
|             |          | dr   | VIPIN M.G   | 2022-04-11                            |               |            |                |
|             |          | engr | MITHUN PAUL | 2022-04-11                            |               |            |                |
|             |          | chr  | MITHUN PAUL | 2022-04-11                            |               |            |                |
|             |          | appd | SPK         | 2022-04-11                            |               |            |                |
| sheet       | revision | A    | A           | A                                     |               |            |                |
| index       | sheet    | 1    | 2           | 3                                     | 4             | 5          |                |

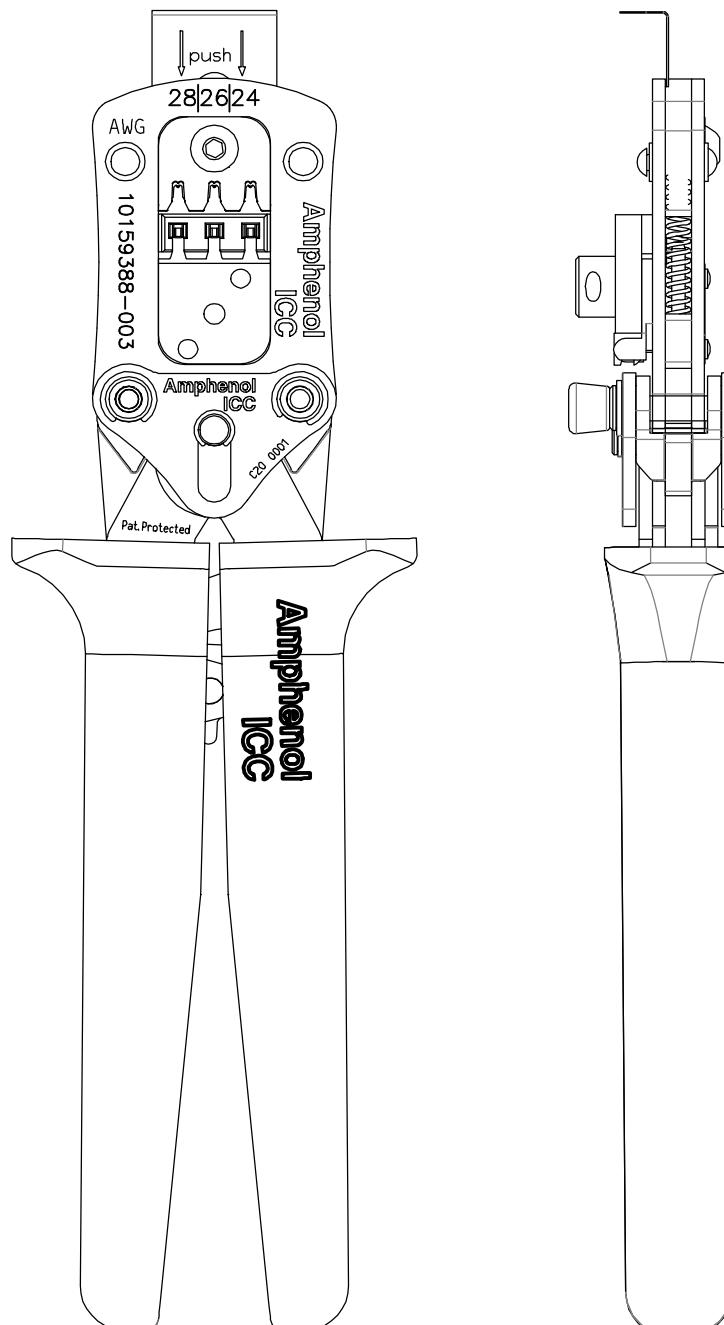
## PART NUMBER

10159388-003

## NOTE:

TERMINAL HAND CRIMPING TOOL

1. AWG RANGE : 24-28 AWG

2. FOR CRIMP DETAILS PLEASE REFER  
APPLICATION SPEC : GS-20-0410

## APPLICATION RANGE:

| TOOL PART NUMBER | AWG RANGE | CONTACT SERIES       | CONTACT PART NUMBER                | CRIMP HEIGHT WIRE | CRIMP WIDTH WIRE | CRIMP HEIGHT INSULATION | CRIMP WIDTH INSULATION |
|------------------|-----------|----------------------|------------------------------------|-------------------|------------------|-------------------------|------------------------|
| 10159388-003     | 24        | 10127817<br>10127818 | 10127817-XX2XLF<br>10127818-XX2XLF | 0.95-1.05         | 1.20-1.30        | 1.96 REF                | 2.40-2.60              |
|                  | 26        |                      |                                    | 0.85-0.95         | 1.25-1.35        | 1.75 REF                | 2.30-2.50              |
|                  | 28        |                      |                                    | 0.80-0.90         | 1.25-1.35        | 1.65 REF                | 2.25-2.45              |

| mat'l. code |                |      |             | surface                               |   | tolerance |         | projection | product family                  |  |
|-------------|----------------|------|-------------|---------------------------------------|---|-----------|---------|------------|---------------------------------|--|
| ltr         | ecn no         | dr   | date        | tolerances unless otherwise specified |   | ISO 406   | ISO 101 | mm         | MINITEK POWER                   |  |
|             |                |      |             | angles                                |   | .0±0.30   |         |            | title                           |  |
|             |                |      |             | linear                                |   | .00±0.20  |         |            | HAND CRIMPING TOOL              |  |
|             |                |      |             | 0°±2°                                 |   | .000±0.10 |         | scale 1:1  | FOR MINITEK POWER 4.2 TERMINALS |  |
|             |                | dr   | VIPIN M.G   | 2022-04-11                            |   |           |         |            | dwg no                          |  |
|             |                | engr | MITHUN PAUL | 2022-04-11                            |   |           |         |            | sheet 3 of 5                    |  |
|             |                | chr  | MITHUN PAUL | 2022-04-11                            |   |           |         |            | size                            |  |
|             |                | appd | SPK         | 2022-04-11                            |   |           |         |            | 10159388                        |  |
| sheet index | revision sheet | A    | A           | A                                     | A | A         | A       |            | A3                              |  |
|             |                | 1    | 2           | 3                                     | 4 | 5         |         |            | type                            |  |

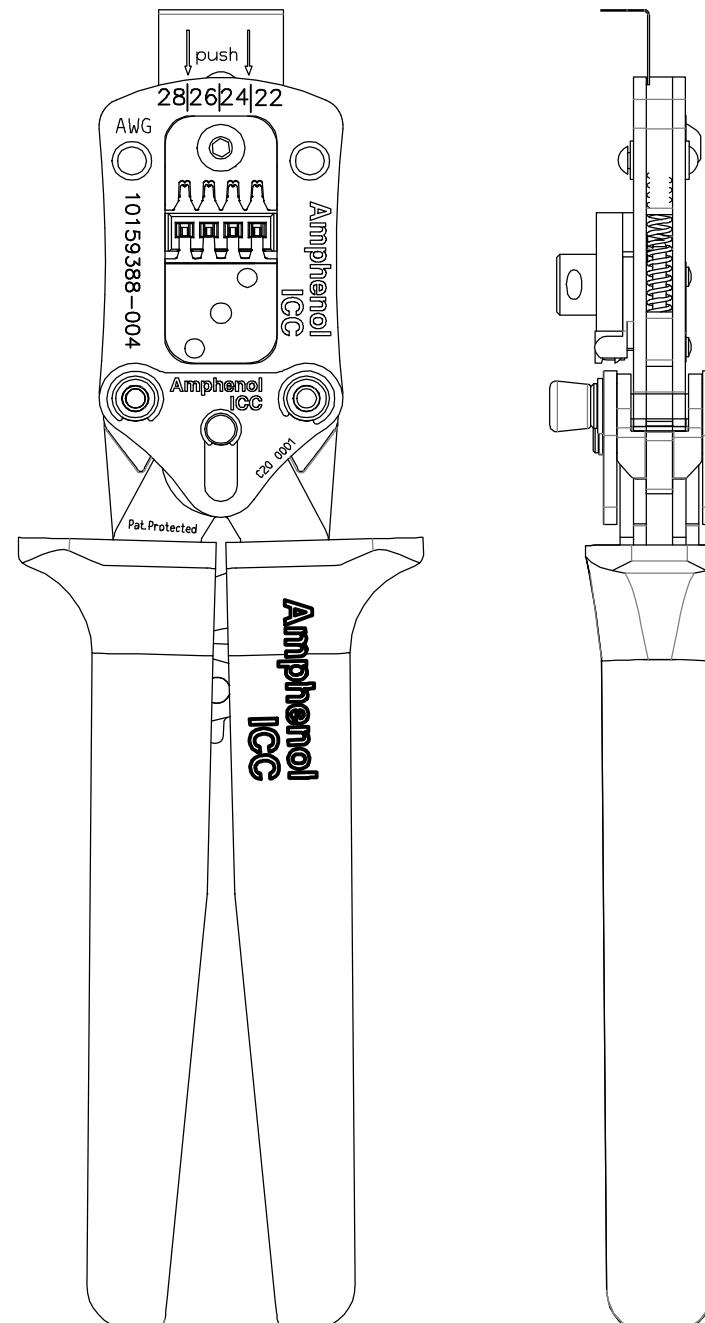
## PART NUMBER

10159388-004

## NOTE:

TERMINAL HAND CRIMPING TOOL

1. AWG RANGE : 24-28 AWG
2. FOR CRIMP DETAILS PLEASE REFER APPLICATION SPEC : GS-20-0410



## APPLICATION RANGE:

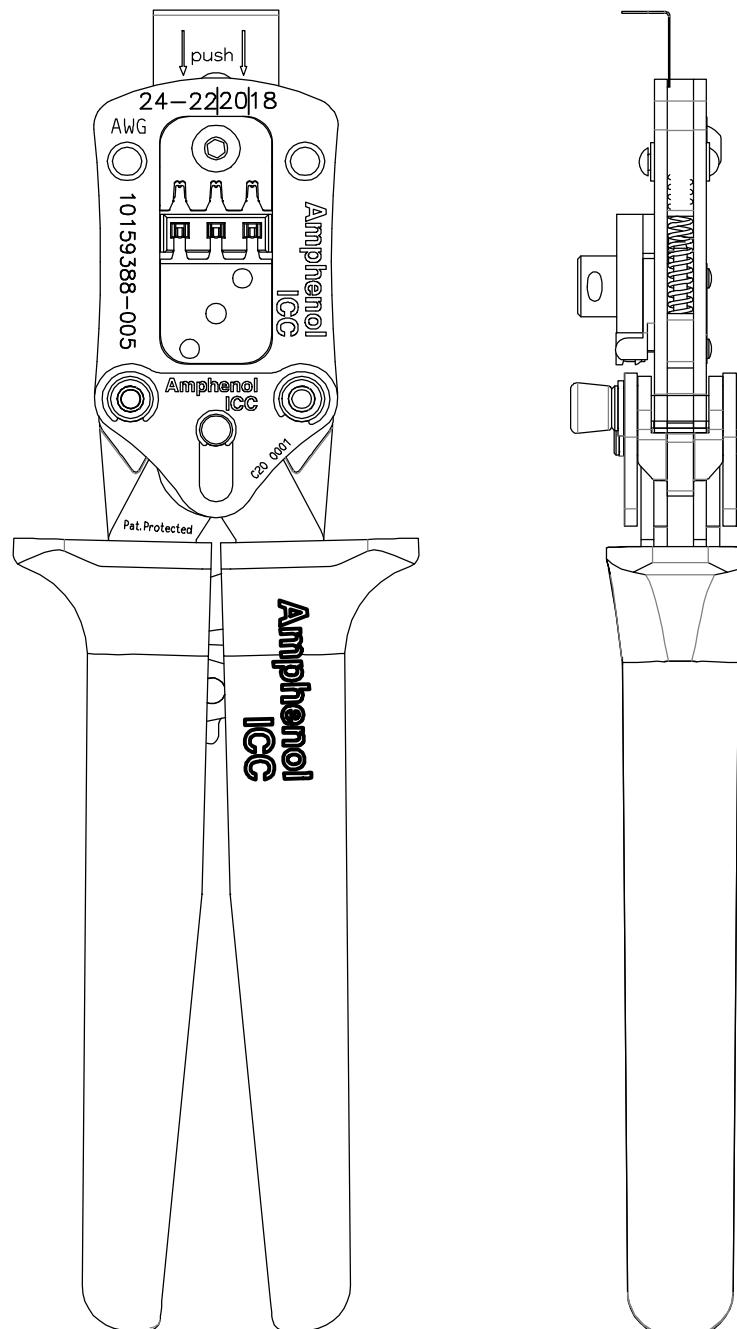
| TOOL PART NUMBER | AWG RANGE | CONTACT SERIES | CONTACT PART NUMBER | CRIMP HEIGHT WIRE | CRIMP WIDTH WIRE | CRIMP HEIGHT INSULATION | CRIMP WIDTH INSULATION |
|------------------|-----------|----------------|---------------------|-------------------|------------------|-------------------------|------------------------|
| 10159388-004     | 22        | 10134170       | 10134170-XX30LF     | 0.70-0.80         | 1.30-1.40        | 1.81 REF                | 1.90-2.10              |
|                  | 24        |                |                     | 0.65-0.75         | 1.25-1.35        | 1.79 REF                | 1.90-2.10              |
|                  | 26        |                |                     | 0.65-0.75         | 1.20-1.30        | 1.79REF                 | 1.85-2.05              |
|                  | 28        |                |                     | 0.65-0.75         | 1.20-1.30        | 1.82 REF                | 1.65-1.85              |

|             |          |      |             |                                       |               |            |                |
|-------------|----------|------|-------------|---------------------------------------|---------------|------------|----------------|
| mat'l. code |          |      |             | surface                               | tolerance     | projection | product family |
| ltr         | ecn no   | dr   | date        | ISO 1302                              | ✓ ISO 406 ISO | 101        | MINITEK POWER  |
|             |          |      |             | tolerances unless otherwise specified |               |            |                |
|             |          |      |             | angles                                | .0±0.30       | mm         |                |
|             |          |      |             | linear                                | .00±0.20      |            |                |
|             |          |      |             | 0°±2°                                 | .000±0.10     | scale 1:1  |                |
|             |          | dr   | VIPIN M.G   | 2022-04-11                            |               |            |                |
|             |          | engr | MITHUN PAUL | 2022-04-11                            |               |            |                |
|             |          | chr  | MITHUN PAUL | 2022-04-11                            |               |            |                |
|             |          | appd | SPK         | 2022-04-11                            |               |            |                |
| sheet       | revision | A    | A           | A                                     | A             |            |                |
| index       | sheet    | 1    | 2           | 3                                     | 4             |            |                |
|             |          |      |             |                                       |               |            |                |

## PART NUMBER

10159388-005

NOTE:  
**TERMINAL HAND CRIMPING TOOL**  
 1. AWG RANGE : 18-24 AWG  
 2. FOR CRIMP DETAILS PLEASE REFER  
 APPLICATION SPEC : GS-20-0410



## APPLICATION RANGE:

| TOOL PART NUMBER | AWG RANGE | CONTACT SERIES       | CONTACT PART NUMBER                | CRIMP HEIGHT WIRE | CRIMP WIDTH WIRE | CRIMP HEIGHT INSULATION | CRIMP WIDTH INSULATION |
|------------------|-----------|----------------------|------------------------------------|-------------------|------------------|-------------------------|------------------------|
| 10159388-005     | 18        | 10134170<br>10147578 | 10134170-XX20LF<br>10147578-XX1XLF | 1.05-1.15         | 1.60-1.70        | 3.14 REF                | 2.90-3.10              |
|                  | 20        |                      |                                    | 0.90-1.00         | 1.50-1.60        | 3.09 REF                | 2.75-2.95              |
|                  | 22        |                      |                                    | 0.90-1.00         | 1.30-1.40        | 2.89REF                 | 2.60-2.80              |
|                  | 24        |                      |                                    | 0.90-1.00         | 1.30-1.40        | 2.89 REF                | 2.60-2.80              |

|             |          |      |             |                                       |               |            |                |
|-------------|----------|------|-------------|---------------------------------------|---------------|------------|----------------|
| mat'l. code |          |      |             | surface                               | tolerance     | projection | product family |
| ltr         | ecn no   | dr   | date        | ISO 1302                              | ✓ ISO 406 ISO | 101        | MINITEK POWER  |
|             |          |      |             | tolerances unless otherwise specified |               |            |                |
|             |          |      |             | angles                                | .0±0.30       | mm         |                |
|             |          |      |             | linear                                | .00±0.20      |            |                |
|             |          |      |             | 0°±2°                                 | .000±0.10     | scale 1:1  |                |
|             |          | dr   | VIPIN M.G   | 2022-04-11                            |               |            |                |
|             |          | engr | MITHUN PAUL | 2022-04-11                            |               |            |                |
|             |          | chr  | MITHUN PAUL | 2022-04-11                            |               |            |                |
|             |          | appd | SPK         | 2022-04-11                            |               |            |                |
| sheet       | revision | A    | A           | A                                     | A             |            |                |
| index       | sheet    | 1    | 2           | 3                                     | 4             |            |                |
|             |          |      |             | 5                                     |               |            |                |