

### Application Tool (HAT)

The Helawrap applicator tool enables the end user to bundle cable rapidly and effortlessly. The applicator tool has been optimized to glide smoothly through the sleeving and allows easy insertion of cable into the Helawrap sleeving. The unique design also allows individual cables to be removed from the applicator tool and branched off through the sleeve opening. A tool is included with every Helawrap package.

| Product Selection |      | Nominal<br>Size |       | Type | Color | Pack<br>Count | Pkg.<br>Weight |      |
|-------------------|------|-----------------|-------|------|-------|---------------|----------------|------|
| Part No.          | in.  |                 |       |      |       |               | mm.            | lbs. |
| 161-60001         | 0.31 | 8               | HAT8  | Blue | 10    | 0.08          | 0.04           |      |
| 161-60002         | 0.63 | 16              | HAT16 | Blue | 10    | 0.27          | 0.12           |      |
| 161-60003         | 0.75 | 20              | HAT20 | Blue | 10    | 0.45          | 0.20           |      |
| 161-60004         | 1    | 25              | HAT25 | Blue | 10    | 0.71          | 0.32           |      |
| 161-60005         | 1.25 | 30              | HAT30 | Blue | 10    | 0.77          | 0.35           |      |

Use Part No. for ordering and Type for specification purposes.



Applicator tools HAT are available for every Helawrap sleeving size.



Insert one or more cables into the insertion slot of the applicator tool.



Place the applicator tool in one end of the Helawrap cable sleeving.



Simply slide the applicator tool through the Helawrap sleeving.

### Split Wrap Installation Tool

This installation tool is designed especially for post installation or retrofit applications. The Split Wrap tool has a twist barrel design that allows the tool to be inserted over a wire bundle that is currently in place. There is no need to disassemble the harness to add the Helawrap sleeving. Simply twist the white barrel to its open position, insert the bundle, twist the barrel to its closed position and pull the tool through the Helawrap sleeving. Wires can be branched off at any point by twisting the white barrel open at the desired location and removing the wires.

| Product Selection |      | Nominal<br>Size |           | Type   | Color | Pack<br>Count | Pkg. Weight |      |
|-------------------|------|-----------------|-----------|--------|-------|---------------|-------------|------|
| Part No.          | in.  |                 |           |        |       |               | mm.         | lbs. |
| 170-03067         | 0.31 | 8               | BSWTOOL14 | Orange | 1     | 0.03          | 0.01        |      |
| 170-03032         | 0.63 | 16              | BSWTOOL12 | Orange | 1     | 0.03          | 0.01        |      |
| 170-03068         | 0.75 | 20              | BSWTOOL34 | Orange | 1     | 0.04          | 0.02        |      |
| 170-03033         | 1    | 25              | BSWTOOL1  | Orange | 1     | 0.05          | 0.02        |      |

Purchased separately. Use Part No. for ordering and Type for specification purposes.



### Helawrap Convenience Pack

The Convenience Pack includes a shorter length (10 ft.) of sleeving for smaller projects and is the quick and easy solution to field service applications where bulk quantity is not feasible, or when only a small amount of sleeving is needed for a quick fix project. Helawrap Convenience Packs are available in rugged Polypropylene Material in 5/8" and 1" diameter and come complete with an instruction card and application tool.

| Material Data         |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Series                | HWPP                                                              |
| Material              | Polypropylene (PP)                                                |
| Operating Temperature | -76° F to +230° F, Intermittent<br>-60° C to +110 C, Intermittent |
| Melt Point            | 284° F / +140° C                                                  |
| Flammability          | UL 94 HB                                                          |



Helawrap convenience packs are available in two sizes, 5/8" and 1" diameter.

| Product Selection |      | Nominal Size |        | Type | Inside Diameter (ID) |      | Maximum Bundle Diameter |       | Color | Package Quantity per Bag |      | Wall Thickness (W) |      | Pkg. Weight (est) |      |
|-------------------|------|--------------|--------|------|----------------------|------|-------------------------|-------|-------|--------------------------|------|--------------------|------|-------------------|------|
| Part No.          | In.  |              |        |      | mm.                  | in.  | mm.                     | in.   |       | mm.                      | ft.  | m.                 | in.  | mm.               | lbs. |
|                   |      |              |        |      |                      |      |                         |       |       |                          |      |                    |      |                   |      |
| 161-62000         | 0.63 | 16           | HWPP16 | 0.55 | 14                   | 0.63 | 16                      | Black | 10    | 3.05                     | 0.03 | 0.80               | 0.26 | 0.12              |      |
| 161-62001         | 1    | 25           | HWPP25 | 0.95 | 24                   | 1.06 | 27                      | Black | 10    | 3.05                     | 0.04 | 1.05               | 0.65 | 0.29              |      |

Each package will include one corresponding application tool (HAT). Use Part No. for ordering and Type for specification purposes.

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## Helawrap Cable Management System

Organize, fasten and protect cables quickly and easily



### Helawrap Cable Management System

Helawrap is the flexible and complete solution for bundling, protecting and securing cables and wires in industrial, datacom and electrical applications. Material options include both rugged Polypropylene (PP) and flame retardant Polyamide 6 V0 (PA6V0). Helawrap bases and clips are specifically designed to organize Helawrap sleeving, which can be affixed effectively anywhere. An installation tool is available for quick and effortless assembly over long cable lengths.

#### Application

Helawrap is designed to bundle and protect cable assemblies in the electrical industry, in panel building, on machines, transportation, electronics, and in industrial automation applications—especially within environments where movement and vibration are experienced. The easy branch-out feature and flexible sleeving also protect against unintentional bending of critical data transmission cables, making it ideal for sensitive data networking applications. Helawrap Polyamide 6 V0 is available for applications that require flame retardant properties.

#### Benefits

- Unique open design allows for easy branch-offs at any point along the harness.
- Overwrap formation provides abrasion protection and accommodates multiple bundle configurations.
- Flexible construction and design is well suited for applications that involve movement and vibration.
- Innovative split shape allows for future access without disassembly.
- Eliminates pinch points and minimizes bending fatigue to wires and cables.
- Easy to use installation tool makes assembly fast and easy.
- Specially-designed swivel clips and bases help hold Helawrap sleeving in place.



For example: The protection and affixing of cables in a wiring cabinet with Helawrap sleeving.



Cables can be branched off at any point for better, more flexible protection.

| Material Data         |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Series                | HWPP                                                               |
| Material              | Polypropylene (PP)                                                 |
| Operating Temperature | -76° F to +230° F, Intermittent<br>-60° C to +110° C, Intermittent |
| Melt Point            | 284° F / +140° C                                                   |
| Flammability          | UL 94 HB                                                           |

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| Material Data         |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Series                | HWPAA6-V0 Flame Retardant                                         |
| Material              | Polyamide 6 V0 (PA6V0)                                            |
| Operating Temperature | -40° F to +194° F, Intermittent<br>-40° C to +90° C, Intermittent |
| Melt Point            | 248° F / +120° C                                                  |
| Flammability          | UL 94 V0                                                          |

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#### HWPP SERIES – POLYPROPYLENE (PP)

Flexible cable protection for applications that require movement or vibration.

| Product Selection |  | Nominal Size |     | Type   | Inside Diameter (ID) |     | Maximum Bundle Diameter |     | Color | Package Quantity per Carton |      | Wall Thickness (W) |      | Pkg. Weight (est) |      |
|-------------------|--|--------------|-----|--------|----------------------|-----|-------------------------|-----|-------|-----------------------------|------|--------------------|------|-------------------|------|
| Part No.          |  | In.          | mm. |        | in.                  | mm. | in.                     | mm. |       | ft.                         | m.   | in.                | mm.  | lbs.              | kg.  |
| 161-64112         |  | 0.31         | 8   | HWPP8  | 0.31                 | 8   | 0.36                    | 9   | Black | 100                         | 30.5 | 0.03               | 0.75 | 1.61              | 0.73 |
| 161-64213         |  | 0.63         | 16  | HWPP16 | 0.55                 | 14  | 0.63                    | 16  | Black | 100                         | 30.5 | 0.03               | 0.80 | 2.55              | 1.16 |
| 161-64310         |  | 0.75         | 20  | HWPP20 | 0.75                 | 19  | 0.83                    | 21  | Black | 100                         | 30.5 | 0.04               | 0.95 | 2.56              | 1.18 |
| 161-64414         |  | 1            | 25  | HWPP25 | 0.95                 | 24  | 1.06                    | 27  | Black | 100                         | 30.5 | 0.04               | 1.05 | 6.45              | 2.93 |
| 161-64507         |  | 1.25         | 30  | HWPP30 | 1.18                 | 30  | 1.26                    | 32  | Black | 100                         | 30.5 | 0.05               | 1.30 | 9.68              | 4.39 |

Each package will include one corresponding application tool (HAT). Use Part No. for ordering and Type for specification purposes.

#### HWPAA6-V0 SERIES – POLYAMIDE 6 V0 (PA6V0)

Flexible cable protection in dynamic conditions where flame retardant properties are required.

| Product Selection |  | Nominal Size |     | Type      | Inside Diameter (ID) |     | Maximum Bundle Diameter |     | Color | Package Quantity per Carton |      | Wall Thickness (W) |      | Pkg. Weight (est) |      |
|-------------------|--|--------------|-----|-----------|----------------------|-----|-------------------------|-----|-------|-----------------------------|------|--------------------|------|-------------------|------|
| Part No.          |  | In.          | mm. |           | in.                  | mm. | in.                     | mm. |       | ft.                         | m.   | in.                | mm.  | lbs.              | kg.  |
| 161-63103         |  | 0.31         | 8   | HWPAAV08  | 0.31                 | 8   | 0.36                    | 9   | Black | 100                         | 30.5 | 0.03               | 0.75 | 2.66              | 1.21 |
| 161-63203         |  | 0.63         | 16  | HWPAAV016 | 0.55                 | 14  | 0.63                    | 16  | Black | 100                         | 30.5 | 0.03               | 0.80 | 3.95              | 1.79 |
| 161-63303         |  | 0.75         | 20  | HWPAAV020 | 0.75                 | 19  | 0.83                    | 21  | Black | 100                         | 30.5 | 0.04               | 0.95 | 5.73              | 2.60 |
| 161-63403         |  | 1            | 25  | HWPAAV025 | 0.95                 | 24  | 0.98                    | 25  | Black | 100                         | 30.5 | 0.04               | 1.05 | 8.06              | 3.66 |
| 161-63503         |  | 1.25         | 30  | HWPAAV030 | 1.18                 | 30  | 1.26                    | 32  | Black | 100                         | 30.5 | 0.05               | 1.30 | 9.83              | 4.46 |

Use Part No. for ordering and Type for specification purposes.

### Helawrap Accessories

#### HWClips and HWBases

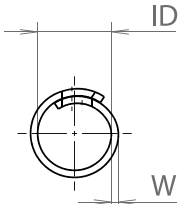
Helawrap accessories consist of retaining clips and mounting plates designed specifically for the Helawrap cable sleeving. Each size clip is designed to fit with its corresponding Helawrap sleeving diameter (*i.e.* use HWCLIP16 with HWPP16).

| Material Data         |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Series                | HWCLIP                                                             |
| Material              | Polyamide 6.6 High Impact Modified Heat Stabilized (PA66HIRHS)     |
| Operating Temperature | -40° F to +221° F, Intermittent<br>-40° C to +105° C, Intermittent |
| Melt Point            | 284° F / +140° C                                                   |
| Flammability          | UL 94 HB                                                           |

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#### Application (Clips)

Helawrap accessory clips and mounting plates can be linked together to bundle, protect and secure any number of cables on industrial machines, as well as in the door area of an automation wiring cabinet where repeated movement occurs.

Each clip size sits snugly around the corresponding Helawrap sleeving and holds it firmly in place. With an innovative coupling system, each clip is to be joined to a mounting plate or another clip of any size. Many clips can be linked together and each can turn freely. As a result, any number of differing cable sizes can be bundled together.



Multiple clips can be joined. Clips swivel freely.

| Product Selection |  | Nominal size |      | Type     | Color | Pack Count | Pkg. Weight |      |
|-------------------|--|--------------|------|----------|-------|------------|-------------|------|
| Part No.          |  | in.          | mm.  |          |       |            | lbs.        | kg.  |
| 161-64002         |  | 0.31         | 8    | HWCLIP08 | Black | 50         | 0.19        | 0.09 |
| 161-64004         |  | 0.63         | 16   | HWCLIP16 | Black | 50         | 0.31        | 0.14 |
| 161-64006         |  | 0.75         | 20   | HWCLIP20 | Black | 50         | 0.35        | 0.16 |
| 161-64008         |  | 1            | 25   | HWCLIP25 | Black | 50         | 0.42        | 0.19 |
| 161-64010         |  | 1.25         | 30   | HWCLIP30 | Black | 50         | 0.51        | 0.23 |
| 201-20010         |  | ----         | ---- | R1       | Black | 500        | 0.67        | 0.30 |

Use Part No. for ordering and Type for specification purposes.



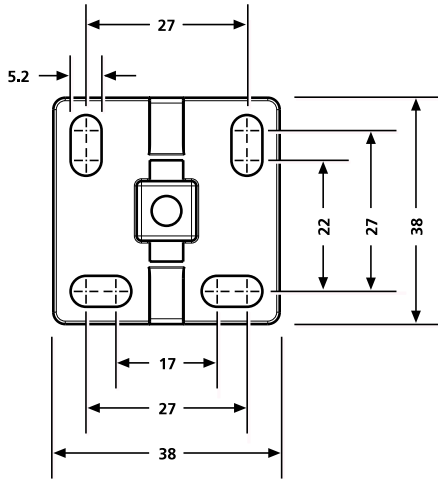
For secure hold, R1 loop can be used (for HWClip25 and HWClip30 only).

#### Application (Bases)

With the highly adaptable mounting plate, cables can be protected alongside most existing structures and installations. The plate can be affixed with screws, with a cable tie threaded through or around the base of the plate, or with an adhesive to provide a long-lasting hold.

#### Benefits

- An innovative coupling system allows for an unlimited number of bundling combinations.
- Clips can be easily released and re-used.
- Clips swivel freely which reduces mechanical stress and eliminates pinch points.
- High Impact Polyamide 6.6 material provides firm fit even in rugged conditions.
- An R1 strap can be stretched over larger clips to provide a tight hold in rugged industrial applications.
- Consists of acrylate adhesive with base of polyurethane foam allowing it to adhere firmly and easily to nearly any surface.



| Product Selection |  | Adhesive                                | Type    | Color | Pack Count | Pkg. Weight |      |
|-------------------|--|-----------------------------------------|---------|-------|------------|-------------|------|
| Part No.          |  |                                         |         |       |            | lbs.        | kg.  |
| 161-64012         |  | Acrylate with base of Polyurethane foam | HWBASEA | Black | 50         | 0.35        | 0.16 |
| 161-64014         |  | ----                                    | HWBASE  | Black | 50         | 0.31        | 0.14 |

Use Part No. for ordering and Type for specification purposes.