

1. Description



Stainless Steel Easy Read Characters are individual letters, numbers, and symbols manufactured from durable stainless steel, designed for creating custom, highly legible identification markers and tags. These characters typically feature an embossed or debossed design, often with a contrasting infill, to ensure readability even in dirty or low-light conditions. They are intended to be slid onto stainless steel banding or cable ties for secure attachment to cables, pipes, valves, equipment, and other assets, particularly in harsh industrial or outdoor environments.

2. Key Features

- **High Legibility:** Embossed/debossed characters, often with black infill, provide excellent contrast and readability from a distance.
- **Durability:** Made from stainless steel for long service life and resistance to physical damage.
- **Corrosion Resistance:** Excellent resistance to weathering, moisture, and many chemicals (grade dependent).
- **UV Resistance:** Inherently resistant to degradation from sunlight exposure.
- **Wide Temperature Range:** Suitable for use in extreme hot and cold environments.
- **Chemical & Abrasion Resistance:** Withstands exposure to industrial chemicals and physical wear.
- **Modular System:** Individual characters allow for creation of any required alphanumeric code or legend.
- **Secure Mounting:** Integrated slots designed for secure attachment using standard stainless steel banding or cable ties.

3. Material Specifications

- **Stainless Steel Grade 304 (SS304 / 1.4301):** General-purpose austenitic stainless steel providing good corrosion resistance in many environments. Suitable for most industrial and outdoor applications.
- **Stainless Steel Grade 316 (SS316 / 1.4401 or SS316L / 1.4404):** Molybdenum-alloyed austenitic stainless steel offering superior resistance to pitting and crevice corrosion, especially in chloride-rich environments (coastal, marine) and against many industrial chemicals and acids. Often specified for offshore, marine, and chemical processing.

4. Technical Data

- **Material:**
 - Commonly: Stainless Steel Type 304 (SS304 / UNS S30400) – Good general corrosion resistance.
 - High Resistance Option: Stainless Steel Type 316 (SS316 / UNS S31600) – Superior corrosion resistance for marine, coastal, or chemical environments.
- **Character Sets:** Typically includes:
 - Letters: A-Z (uppercase)
 - Numbers: 0-9
 - Symbols: May include +, -, /, ., blank spacer, etc .
- **Character Sizes:** 5.5X11.4mm.
- **Material Thickness:** 0.3mm.
- **Format:** Embossed characters.
- **Mounting Slots:** Designed to accommodate standard banding/cable tie widths up to 3/8" or 9.5mm).
- **Operating Temperature Range:** Consistent with the stainless steel grade used, typically -80°C to +538°C (-112°F to +1000°F) . .
- **Resistance:** Excellent resistance to UV, abrasion, weathering. Corrosion and chemical resistance depend on the stainless steel grade.

5. Installation Guidance

- **Select Characters:** Choose the required letters, numbers, and symbols to form the desired identification code.
- **Assemble Legend:**
 - Direct Mounting: Slide the characters directly onto the stainless steel cable tie or banding strip in the correct sequence and orientation. Ensure they face outwards for readability.
 - Using Carrier Strip (if applicable): Slide characters onto the designated carrier strip/holder.
- **Position:** Wrap the cable tie/banding (with characters assembled) around the object to be identified (cable, pipe, etc.). If using a carrier strip, position the strip against the object.
- **Secure:**
 - Cable Tie: Feed the tail through the head and pull tight. Use an installation tool to apply final tension and cut the tail flush.
 - Banding: Feed the tail through the appropriate clip/buckle, apply tension using a banding tool, secure the clip/buckle (e.g., hammer wings, tighten screw), and cut the excess band.
- **Adjust:** Ensure the characters are positioned for optimal visibility.
- **Safety:** Always wear appropriate safety gloves (cut-resistant) and eye protection when handling stainless steel products and using installation tools.

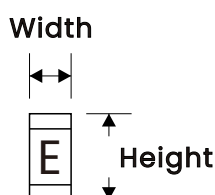
6. Applications

- Ideal for creating permanent, legible identification in demanding environments:
- **Cable Identification:** Marking power, control, and communication cables in trays, racks, or outdoor runs.
- **Pipe Marking:** Identifying pipe contents, flow direction, or system numbers.
- **Valve Tagging:** Labeling valves with identification numbers or system information.
- **Asset Identification:** Tagging machinery, equipment, tools, and components in industrial plants, refineries, offshore platforms, etc.
- **Utility Marking:** Identifying poles, circuits, or equipment in the field.
- **Hose Identification:** Marking hydraulic or industrial hoses.
- **Any application requiring durable, custom, on-site generated identification.**

7. Associated Products

- **Stainless Steel Cable Ties:** (Multi Lock type recommended for secure, permanent fixing). Width must be compatible with character slots.
- **Stainless Steel Banding:** Width must be compatible with character slots.
- **Banding Clips/Buckles:** (e.g., Wing Seals, Screw-Lokt) Required if using banding. Must match banding width.
- **Installation Tools:** Appropriate tensioning/cutting tools for cable ties or banding. Hammer needed for wing seals.
- **Carrier Strips/holders:** (Optional) Some systems utilize separate stainless steel strips onto which characters are mounted before attaching to the object.

8. Specifications



Width	Height	Characters	Optional Material
mm	mm		
5.5	11.4	0~9, A~Z, +, -, /, (,)...	SS304 / 316

Disclaimer: The information provided in this datasheet is intended as a general guide. Specific performance characteristics can vary based on the application conditions and the specific product variant. Users should evaluate the product suitability for their specific requirements. Manufacturer reserves the right to change specifications without notice.