

# Sentry Cable Tag

## A Specialized Tag for Tracking Cable Assemblies With Optimum RFID Performance



Rental companies in the audiovisual industry, but also in construction or IT, face the challenge of optimizing logistics and generating a reliable inventory and workflow around the cables they handle every day. Identifying cables with printed bar or QR codes is inefficient, since every barcode needs to be scanned manually within line of sight.

RFID technology overcomes that challenge by making it possible to scan cables in bulk without line of sight. Not every RFID tag is equally suitable for that job. The Sentry Cable RAIN® RFID tag has been specifically optimized to work on insulated metal and is available with a set of durable tag holders that allow for reliable mounting on professional cables of different dimensions.

The PCB-based HID Sentry Cable tag has a low profile — just 2.8 mm tall — and a very small footprint of 36 mm x 11 mm. Despite this small package, it provides a read range of up to 20 ft

(6 m) when mounted on insulated metal. The Sentry Cable tag fits perfectly in HID's line of tag holders, deployed by companies that use large, expensive cable assemblies. The optimized read range of this latest generation product provides reliable reads even when cables are piled together for transport.

**Sentry Cable tag holders** are the most efficient way to mount Sentry RFID tags to cables of various dimensions.

Made of high-performance thermoplastic polyester resin, secured with industrial-quality screws and specifically designed for the Sentry Cable tag, these holders are designed to stand up to the harsh conditions to which cables are often subjected. From impact and pressure to temperature extremes, the cable tag holders keep an onboard RFID tag safe and secure — ensuring the data you need is always at your fingertips.

All holders feature a clear durable 'window', that enables reading of a barcode or human readable label, while protecting the label from the rugged environment. Holders are available in various sizes to match any cable. They also include a rope holder feature to add ropes for manually handling heavy cables.



### KEY BENEFITS:

- **High performance** – Optimized for mounting on insulated metal
- **Easy to fix** – Professional cable fixation in various sizes
- **Rugged** – Tolerates repeated exposure to high temperatures, vibration and impact

### KEY TECHNOLOGY HIGHLIGHTS:

- Utilizes latest Impinj M750 chipset, optimized for EU or US
- Reads distances up to 20ft / 6m
- Provides outstanding performance-to-size ratio with small footprint and low profile

### TYPICAL APPLICATION AREAS:

- Cable tracking for metal conductor cables
- Rental equipment for video / movie production
- Power generation and backup
- Events production
- Government / Military
- Data centers

Sentry Cable		Sentry Cable Tag Holders						
								
<b>Base Model Number</b>	AST1-163-0310 (EU) AST1-163-0300 (US)	VIZH300	VIZH430	VIZH540	VIZH700	VIZH880	VIZH1100	VIZH1312
<b>ELECTRONIC</b>								
<b>Operating Frequency</b>	(EU) - 865-868 MHz (ETSI) / (US) - 902-928 MHz (FCC)							
<b>Chip Type</b>	M750							
<b>Memory</b>	96 bit EPC 32 bits UM							
<b>Anti-collision</b>	Yes							
<b>Reading Distance</b>	20 ft (6 m)							
<b>PHYSICAL</b>								
<b>Dimensions</b>	1.43 x 0.43 x 0.11 in (36.3 x 10.9 x 2.8 mm)	1.96 x 0.88 in (49.8 x 22.3 mm)	2.11 x 0.93 in (53.6 x 23.6 mm)	2.53 x 0.97 in (64.3 x 24.6 mm)	2.66 x 1.21 in (67.6 x 30.7 mm)	2.93 x 1.49 in (74.4 x 37.8 mm)	3.23 x 1.88 in (82.0 x 47.7 mm)	2.87 x 1.93 in (72.9 x 49.0 mm)
<b>Mounting Method</b>	Adhesive or Cable Tag Holder	Screw						
<b>Affixes to</b>	Insulated metal	CAT5, DMX Microphone / cable diameter: 0.30 in (7.62 mm)	12/3 SJOOW, #4 Stage, #6 Stage / cable diameter: 0.43 in (10.9 mm)	#2 Stage, 12/3 SOOW / cable diameter: 0.54 in (13.7 mm)	2/3 SOOW, #2 EISL / cable diameter: 0.70 in (17.8 mm)	19Pin Ext, 4/0 Stage, 6/4 SO / cable diameter: 0.88 in (22.3 mm)	4/0 Type W, 6/4 SO HMI Feeder / cable diameter: 1.1 in (27.9 mm)	5 Wire Banded Cams, 19 Pin Breakout / cable diameter: 1.325 in (33.6 mm)
<b>Housing Material</b>	PCB	High-performance thermoplastic polyester						
<b>Color</b>	Black (with White Label)	Black						
<b>Weight</b>	0.06 oz (1.6 g)							
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>								
<b>Water</b>	IP68, 68° F (20° C), 1 m x 24 h							
<b>Withstands Exposure To</b>	Dilute mineral acids, dilute alkali solutions (<20%), alcohols, petroleum, salt mist, vegetable oil, hydraulic fluid and most industrial cleaning agents	Aqueous environments, detergent solutions, dilute mineral acids, dilute alkali solutions (<10%) and salt water. Not recommended for exposure to most solvents; alcohols, acetone, MEK etc.						
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h							
<b>Impact</b>	1 kg steel, 45 cmv							
<b>Vibration &amp; Shock</b>	IEC 68.2.6 / IEC 60068-2-27:2008							
<b>THERMAL</b>								
<b>Storage</b>	-58° to 185° F (-50° to 85° C)	-40° to 158° F (-40° to 70° C)						
<b>Operating</b>	-58° to 185° F (-50° to 85° C)	-40° to 158° F (-40° to 70° C)						
<b>Shock/Fatigue</b>	-40° to +212° F (-40° to +100° C), 10 x 1h with 10 sec transition							
<b>Peak Temperature</b>	365° F (185° C), 3 h							
<b>OTHER</b>								
<b>Standards</b>	EPC C1G2, ISO 18000-6C, RAIN							
<b>Options</b>	Can be upgraded to Sentry Pro version resisting over 1.000 Autoclave cycles incl. high-temperature adhesive sticker (end of P/N changes from -03x0 to -A3x0). Custom printed label.	Holders are black by default. Sentry Cable tag needs to be ordered separately.						
<b>Quantity Per Box</b>	150 pcs.	200 pcs.	150 pcs.	100 pcs.				
<b>Warranty</b>	2 years							



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2025-05-07-idt-rfid-il-sentry-cable-ds-en PLT-06685

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