SMART RFID LABELS

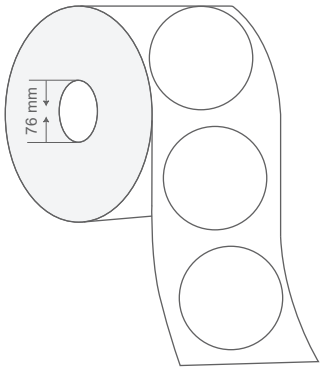
NFC 25

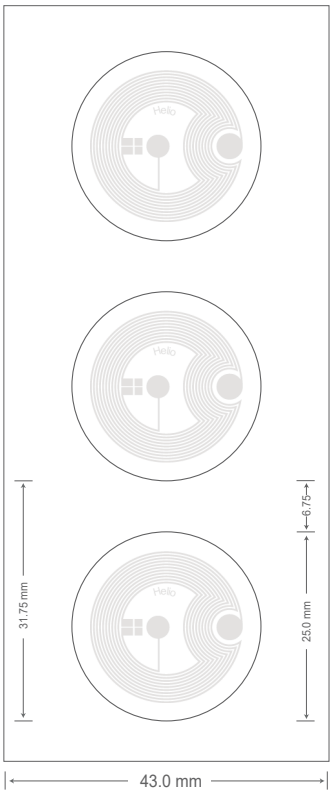
SIVA's NFC 25 labels are high quality circular NFC stickers in roll form. These labels are highly durable to establish intuitive one touch communication between existing technologies and devices. These NFC labels come with High performance permanent adhesive as standard.

NFC labels measure 25 millimeters in diameter and are delivered on rolls for easy handling. These labels can be pre-printed and encoded with artworks and human readable data according to the customer requirements.

TYPICAL APPLICATIONS

- Smart Advertising
- Goods & Devices Authentication
- Business Cards
- Voucher & Coupons





PHYSICAL SPECIFICATION

Face Stock	Printable white PET, resin ribbon is recommended
Label Sizes	Dia 25 mm, Thickness 0.2 mm Dia 0.98 in, Thickness 0.01 in
Adhesive	High performance permanent adhesive with excellent bonding to all types of surfaces
Weight	0.135 gm
Delivery format	Roll form
No. of Labels/ Reel	1000 pcs
Label Pitch	31.75 mm / 1.25 in
Core inner diameter	76 mm / 3 in

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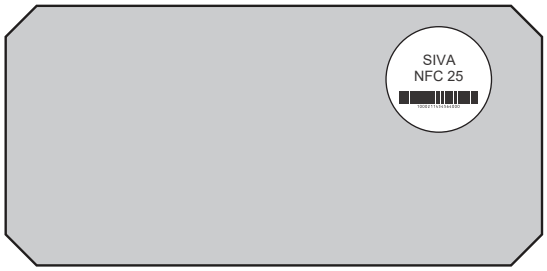
RF SPECIFICATION

Mode of Operation	Passive
Device Type	NFC Forum Type 2
Air interface Protocol	NFC forum type 2 tag and ISO14443A
Operational Frequency	13.56 MHz
IC Type*	NTAG 213
Memory Configuration	180 bytes organized in 45 pages with 4 bytes per page
Write Cycle Endurance	100,000
Data Retention	10 years
Applicable surface materials	Non-metallic Surfaces

ENVIRONMENTAL RESISTANCE

Operating temperature	-20°C to +70°C / -4°F to +158°F
Withstands Exposure to	95% humidity, 60°C × 100 h, 50% humidity, 80°C × 100 h
Peak Temperature	+100°C for 1 hr, +80°C for 100 hrs (Label remains securely attached with object. No physical or performance changes observed.)
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F
Water Resistance	IP67
Adhesive Service Temperature	-20°C to +85°C / -4°F to +185°F
Chemical Resistance	No physical or performance changes in: - 168 h Salt water (salinity 10%) exposure - 168 h Motor oil exposure - 12 h NaOH (10%) exposure - 30 min Acetone exposure
Ideal Storage condition	+23°C / 50% RH
Expected lifetime	Years in normal operating conditions

PRODUCT INSTALLATION



- Ensure the application surface is not uneven and is clean and dry, to obtain maximum bond strength. If required, use approved cleaning solvents to clean surface.
- Avoid touching the backside of the label while mounting it

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC

Customized Printing

- Customer specific layout including logo, text, numbers, barcodes etc.

ORDER INFORMATION

Part Number

- RF.Li.TT.NFC.25

Roll Sizes

- 1000 Labels per Roll / 4 Rolls per Carton

* Other IC's available on request
** The indicated read range values are measured in our laboratory testing environment, where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials and environments may exhibit different results.

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