

Near Field Communication Tags



NFC or Near Field Communication Tags are the latest and greatest development in the RFID world. But what exactly is NFC and what makes it so great? NFC is a wireless communication built on the principles of RFID which allows for additional security over “standard” RFID. In addition, NFC allows for the ability to have two-way communication between devices. As the name states, NFC is only used in the very near proximity of the two devices, i.e. NFC-enabled label with an NFC-enabled cell phone. As NFC-enabled cell phones become more popular the applications for this technology will also become more and more popular. Using Metalcraft’s NFC-enabled tags, the primary application is data exchange; however, the possibilities even within that one application are virtually endless. The following are some examples of what can be programmed into Metalcraft NFC-enabled tags:

- vCard to import data into the address book
- Bookmark URL to open a given web address
- Plain text to display simple messages directly on the screen
- SMS (SMS URI) to create a new message
- Mail (Mail URI) to create a new mail message
- Telephone number (TEL URI) to start a call
- Bluetooth to pair and connect devices
- Geo location to open a given destination

Each tag features a subsurface digital printing process which ensures crisp details on even the most complex logos for maximum clarity. Four color processing is available for limitless color and design options.

Key Product Features

- NFC-enabled tag/reader allows two-way communication between devices
- Using NFC enabled cell phone means no additional reader required
- Additional security over “standard” RFID tags
- Made of flexible polyester material
- Choice of up to four standard colors
- Digital printing process provides for greater print capability with detailed logos or special designs



Near Field Communication Tag Specifications

Label Material: .002" polyester

Label Copy: The label copy may include block type, stylized type, logos or other designs. All copy, block type, stylized type, logos, designs and bar code are subsurface printed. This unique process provides excellent resistance to solvents, caustics, acids and moderate abrasion.

Colors: Standard colors include black, red, yellow, green and blue. Due to contrast needed for the bar code scanner, all bar codes are black.

Serialization: Bar code and human-readable equivalent are produced using the latest high-resolution digital technology available, which provides excellent clarity and easy scanning. Code 39 is the standard symbology used with a range of 2.7 to 9.4 CPI (characters per inch). Optional linear and 2D symbologies available.

Programming: The bar code and human readable can be programmed into the RFID inlay as long as the information is in decimal or hexadecimal (A-F, 0-9) format. Metalcraft custom encodes your information to the EPC and

user memory banks. If desired, Metalcraft can encode information that differs from the bar code and human readable.

Frequency: 13.56 MHz ISO-14443 compatible

Standard Size: 2" x 1" (optional sizes available)

Standard Adhesive: Pressure-sensitive acrylic (MC778), .002" thick supported by a liner. Very high peel strength that provides excellent resistance to heat and chemicals. Withstands temperatures from -40°F to 300°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.

