

## Data centers verifying optical connections using NFC

### The Challenge:

Simplify optical cable identification to eliminate connection errors while reducing costs and downtime.

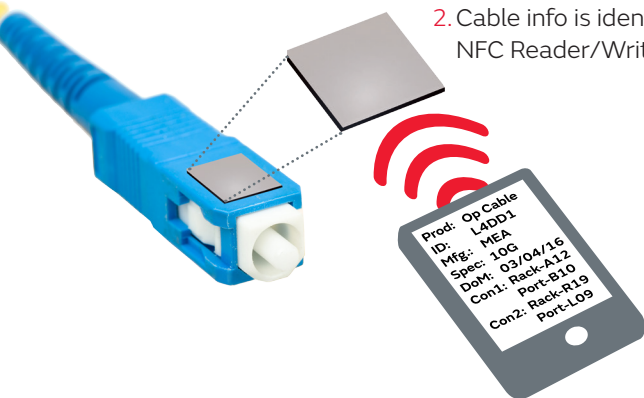
### Stakeholders:

IT management, installation and configuration team members, repair personnel, etc.

### Customer Challenges:

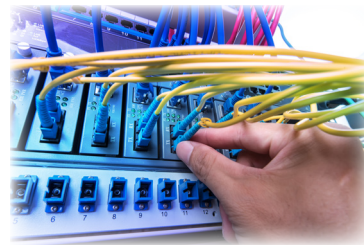
- Reduce installation time
- Minimize implementation costs
- Reduce troubleshooting time
- Verify accurate connections
- Improve customer service
- Eliminate costly errors
- Reduce paperwork

1. Murata's NFC tag  
P/N LXMS33HCNG-134



2. Cable info is identified using NFC Reader/Writer.

3. Cable is plugged into verified port location.



### The Murata Solution:

#### The Product:

P/N – LXMS33HCNG-134  
Ultra small MAGICSTRAP® Near Field Communication (NFC) RFID Tag

#### How It Works:

1. Murata's MAGICSTRAP® tag is attached or embedded into the individual cable interface.
2. Each tag has a unique identification number that is read using a mobile NFC Reader/Writer during installation or repair.
3. Service personnel can quickly and accurately identify the cable's ID and also verify correct port location.
4. Installation/service records can be updated for future reference.

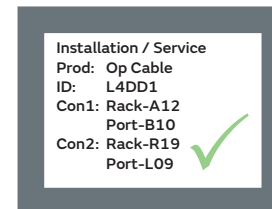
### Product Features:

- Complete design – RF antenna and IC is embedded within tag
- NXP ICODE SLiX, 896 bit user memory
- Ultra-miniature package size – 3.2 x 3.2 x 0.7mm
- Robust design, compatible with over molding embedding process
- Operating temperature -40°C to +85°C
- ISO15693 compliant
- Typical read range 15mm (200mW o/p power, 37 x 54mm antenna)
- 100% RoHS compliant

### Applications / Use Cases:

- Data Centers
- IT Departments
- Cable manufacturers
- Repair/Service Providers
- IT equipment suppliers

4. Documentation is updated.



### More info:

For further information about NFC solutions, please contact your local sales manager.

Data sheets and application notes for Murata Electronics products can be found at:

[www.murata.com](http://www.murata.com)



NFC MAGICSTRAP®  
P/N – LXMS33HCNG-134

To see more RFID/NFC solutions, visit [www.murata.com/en-us/products/rfid](http://www.murata.com/en-us/products/rfid)