HellermannTyton

RADIO FREQUENCY IDENTIFICATION (RFID)

What is RFID?

Radio Frequency Identification is an established data carrying and automatic identification technology used throughout every industry. Data relating to an item is stored on a RFID tag attached to an item. Similar to a bar code the tag is a data carrier, it carries data programmed into a small computer chip and operates at a wide range of frequencies.

Benefits of RFI:

- Elimination of clerical errors in recording data
- Faster data collection
- Reduction in labour
- Reduction in paperwork required to process data
- Ability to hold more data than barcodes
- Eliminates paper based inspections and reporting
- Manage equipment inspections, maintenance work, asset identification and location
- Comply with legislation
- Generate equipment reports
- Control your stores management
- Increase reporting and inspections accuracy
- Share up-to-date information

Advantages of RFI over other ID technologies:

- Reliable operation in harsh environments
  (i.e. wet, dusty, dirty conditions; corrosive environments;
  vibration and shock)
- No need for contact or line-of-sight
- Freedom from line-of-sight constraints (transponders can
  be read irrespective of orientation and through virtually
  any material, including flush mounted in or surface mounted on metals)

Applications Include:

- Theft prevention
- Keg and gas cyclinder tracking
- Asset management
- Attendence verification
- Security tagging
- Leak detection
- Essential maintenance
- Baggage tagging

Hellermann Tyton RFID Cable Ties

Hellermann Tyton has developed a range of cable ties to host RFID transponders to enable users to easily fix the RFID tag to equipment that needs to carry a serial number for tracking and identification purposes.

There are currently three options available with more configurations currently in development. Each variant comes fitted with the appropriate RFID transponder.

Properties of the Nylon RFID Identification Cable Tie:

Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40°C to +85°C Continuous, (+105°C for 500 h)**
Flammability	**UL94 V2**

Technical Table						
Type	Length (L) mm	Width (W) mm	Bundle Dia Max mm	Min Tensile Strength (N)	Material	Colour*
T50RFID	200	4.6	50.0	225	PA66	YELLOW

* Other colours available on request minimum quantities will apply

Options – Low and High Frequency Glass Rod Type Transponder				
Part Number	**UNS Number**	**Description**	**Pack Size**	**Colour**
T50RFIDCLA.NY3P	111-01638	200MM X 4.6MM CABLE TIE COMPLETE WITH A LOW FREQUENCY TRANSPONDER	100	Yellow
T50RFIDCHA.NY3P	111-01639	200MM X 4.6MM CABLE TIE COMPLETE WITH A HIGH FREQUENCY TRANSPONDER	100	Yellow