

NeoTAG® Flag FG7678

RFID flag for attaching with a cable tie, readable with NFC enabled mobile devices

The RFID transponder NeoTAG® Flag FG7678 is part of our approved NeoTAG® Flag product range and scores with its outstanding properties.

Its special housing concept allows the ultra-small NFC enabled RFID transponder to be attached to a wide range of objects using standard cable ties – ideal if you need to identify something without drilling holes. The transponder perfectly combines its exceptional reading and programming properties with the advantages of the rugged [NeoTAG® RFID transponder](#) and tool-free attachment technology. Alternatively, additional attachments such as round wires and stranded wires can also be used, e.g. for sealing of objects.

This type of transponder is ideal for applications in which the mobile phone, tablet or another mobile device is used for fast and simple identification of an object. All with the integrated NFC-antenna of the device, without the need for an additional RFID-reader.

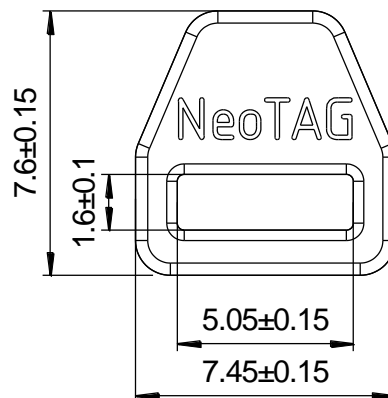
The compact outer dimensions of the NeoTAG® Flag FG7678 are 6.95 x 7.6 x 7.75 millimetres (LxWxH). The well-protected integrated transponder enables reliable reading and programmability with almost all modern smartphones.

The innovative housing type of the new flag transponder allows labelling of metallic and non-metallic objects with only one single version.



NeoTAG® Flag FG7678





Units: mm

Technical data:

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|-------------------------------|---|
| Item number: | 00704091 (with NXP ICODE SLIX) for metallic <u>and</u> non-metallic objects |
| Housing material: | PPA GF30, cyan blue, other colours on request |
| HF RFID protocol: | ISO 15693 |
| Chip: | NXP ICODE SLIX. SLIX2 and others on request |
| User data memory: | 896Bit. Larger memory with other chips. |
| Frequency: | 13.56 MHz |
| Reading range: | up to 220mm (depends on reader and reader antenna) |
| Operating temperature: | -40°C to +85°C (for reading and writing function) |
| Storage temperature: | -10°C to +40°C |
| Special ambient temperatures: | +180°C (up to 90 hours/14 cycles) +200°C (up to 5 hours/100 cycles) |
| Weight: | 0.39 g/pc(s) |

Characteristics:

- Contactless, maintenance-free RFID communication without wear and tear
- Fault-free identification compared to conventional marking methods
- For tool-free attachment using cable ties up to 4.8mm wide and wires up to 1.3mm thick
- Attachment of an HF RFID transponder without the object being modified
- Readable using standard RFID readers with min. 200mW output power
- Alternatively readable and programmable by modern smartphones with NFC function in metallic and non-metallic environments
- Multiple reuse with new cable ties, e.g. changing colours for frequent service
- Programmable using URL data for direct website access
- Protection class IPX8: continuous immersion in water
- Vibration resistant
- High mechanical abrasion resistance

- Resistant against a large number of chemical substances
- IC with password protection and encrypted protocol on request
- Customer-specific logo and colour on request
- Customer-specific programming on request
- Customer-specific laser marking (logo, serial no., ...) on request
- NFC Forum Type 5 TAG
- FDA-compliant plastic housing on request
- RoHS-compliant, REACH-compliant

Application areas:

- Inventory and product traceability in production, service and maintenance
- Non-damaging tube, hose and cable management
- Identification of hazardous substances and valuables
- Equipment and resource monitoring and tool management
- Creating "smart objects" in terms of "Internet of Things" (IoT)
- Labelling metallic and non-metallic objects



Application example: NeoTAG® Flag FG7678 with cable tie on a high-pressure hose

Packaging:

VPE 500 pcs as bulk goods. Other packaging on request.