TEST REPORT

Name of product: Intercoms
Type of product: 2N® Helios IP Force 9151102CRW, 2N® Helios IP Verso 9155101C
Ratings: ---
Serial number: 54-0642-1089, 54-0817-0106
Manufacturer: 2N TELEKOMUNIKACE a. s.
Modřanská 621/72, 143 01 Praha 4, Czech Republic
Production site: dtto manufacturer
EZÚ product coding system: 06 - Environmental tests
Ordering firm: 2N TELEKOMUNIKACE a. s.
Modřanská 621/72, 143 01 Praha 4, Czech Republic
Number of tested samples: 2
Samples submitted on: 13. 8. 2014
Location of testing: EZÚ
Other data: ---
The product was tested according to: ČSN EN 50486:2009, annex A.7

The test results contained in this report refer to the tested items only. The values presented in this report were measured with the accuracy specified in the testing regulations. All measuring instruments used are properly traceable.

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1. Specimen description

Two intercoms were provided for testing:

a) 2N® Helios IP Force 9151102CRW
b) 2N® Helios IP Verso 9155101C

Fig. 1 - specimen 2N® Helios IP Force 9151102CRW

Fig. 2 - label of the specimen 2N® Helios IP Force 9151102CRW
Fig. 3 - specimen 2N® Helios IP Verso 9155101C

Fig. 4 - label of the specimen 2N® Helios IP Verso 9155101C
2. Testing

2.1 Anti-vandalism test
on the basis of ČSN EN 50486:2009, annex A.7

Test apparatus:
flat-blade screwdriver 7.0 x 150
flat-blade screwdriver 4.0 x 100
combination pliers
lighter
0,33l can of Coca-Cola

Test procedure:
test 1 - try to unscrew the fixing screws
test 2 - try to pull out the device (note: did not performed due to manner of real attachment)
test 3 - try to pull out the push buttons
test 4 - try to jam the push buttons
test 5 - attack with screwdriver(s)
test 6 - attack with a lighter
test 7 - attack with commercial sof acid-sweet dring (note: without subsequent delay)

Note.: During the testing, the devices' function of buttons was monitored by customer staff members.

Findings:

a) intercom 2N® Helios IP Force 9151102CRW
   test 1 - the screws could not be unscrewed
   test 2 - N/A
   test 3 - no button was pulled or wrenched
   test 4 - no button was jammed
   test 5 - the glass cover of the camera was broken (the camera itself is still functional after the test),
            the enclosure surface was scratched,
            no button was damaged (the buttons are still functional after the test)
   test 6 - the bell button was partially scorched,
            no afterflame of any plastic part occurred,
            no button backlight was damaged
   test 7 - the drink did not penetrate into the intercom enclosure, the intercom function is not
            immediately disrupted

After testing, the intercom is functional.

b) intercom 2N® Helios IP Verso 9155101C
   test 1 - the screws could not be unscrewed
   test 2 - N/A
   test 3 - the bell button cover was wrenched (the button was still functional after the test),
            no button of the numeric keyboard was pulled or wrenched
   test 4 - no button was jammed
   test 5 - the cover of the camera was not broken (the camera is still functional after the test),
            the enclosure surface was scratched,
            no button of the numeric keyboard was damaged (the buttons are still functional after the test)
   test 6 - the bell button and the paper label were partially scorched (the button itself is still functional
            after the test),
            no afterflame of any plastic part occurred,
            no button backlight was damaged
   test 7 - small amount of the drink penetrated into the intercom enclosure, the intercom function is
            not immediately disrupted

After testing, the intercom is functional.
3. Photodocumentation - testing and state of the specimens after testing

Fig. 5 - test 1 of intercom 2N® Helios IP Force 9151102CRW

Fig. 6 - test 3 of intercom 2N® Helios IP Force 9151102CRW
Fig. 7 - broken camera cover of intercom 2N® Helios IP Force 9151102CRW after test 5

Fig. 8 - test 6 of intercom 2N® Helios IP Force 9151102CRW

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Fig. 9 - bell button of intercom 2N® Helios IP Force 9151102CRW after test 6

Fig. 10 - button "*" on the numeric keyboard of intercom 2N® Helios IP Force 9151102CRW after test 6
Fig. 11 - functional backlight of all buttons of intercom 2N® Helios IP Force 9151102CRW after testing
Fig. 12 - Intercom 2N® Helios IP Force 9151102CRW after testing
Fig. 13 - test 4 of intercom 2N® Helios IP Verso 9155101C

Fig. 14 - Intercom 2N® Helios IP Verso 9155101C after test 5
Fig. 17 - intercom 2N® Helios IP Verso 9155101C after test 6

Fig. 18 - test 7 of intercom 2N® Helios IP Verso 9155101C

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Fig. 19 - intercom 2N® Helios IP Verso 9155101C after testing
Fig. 20 - intercom 2N® Helios IP Verso 9155101C after testing

Fig. 21 - penetration of the drink in the intercom 2N® Helios IP Verso 9155101C
4. Test result

The submitted specimens

intercoms 2N® Helios IP Force 9151102CRW and 2N® Helios IP Verso 9155101C

were subjected to anti-vandalism test on the basis of ČSN EN 50486:2009, annex A.7. The evaluation in the matter of impact on the function is in customer’s competence.

Tested by: J. Šašek

end of Test Report