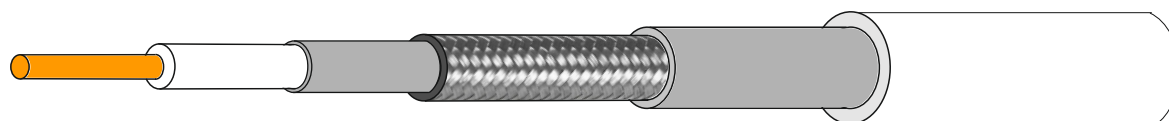


CATALOG CARD

Model



NS113TRI HQ 500m



Ø	1,13	4,80	4,90	5,50	5,60	6,80
	(Cu)	(FPE)	(Al/PET)	(Al)	(Al/PET)	(PVC)

APPLICABLE STANDARDS

1. PN-EN 50117-2-4: 2005+A1:2008. Coaxial cables - Part 2-4: Sectional specification for cables used in cabled distribution networks - Indoor drop cables for systems operating at 5 MHz - 3 000 MHz.
2. PN-EN 50117-1:2003+A1: 2007. Coaxial cables - Part 1: Generic specification.
3. Directive 2011/65/EU with annex II 2015/863 (RoHS 3)

PRODUCT DESCRIPTION

High quality, triple-shielded coaxial cable with inner conductor made of copper wire. The conductor is covered with physically foamed nitrogen (N) polyethylene, which has particularly effective dielectric insulation. Shielding is made in accordance with the Trishield standard, which uses triple conductor protector. The first of them is a layer of AL/PET aluminium foil, second one is aluminium wire braiding with optical coverage 98% and the last one is another layer of AL/PET aluminium foil. The outer sheath is made of white PVC, which protects against mechanical damage and allows quick and comfortable cable installation. NS113TRI HQ cable has a high shielding efficiency, confirmed by class A/A+. Accordance with CPR (CE) norms: EN 50575:2014, EN 13501-6:2014, Reaction to fire: ECA, Certificated by Institute of Communication.

IMPLEMENTATION

Coaxial cable enables transmission of digital and sinusoidal signals in the range 20 Hz- 15 Ghz. It is used for creating lead connections in ICT installations. The NS113TRI HQ cable is dedicated to internal individual and multiswitch installations. It can be successfully used for receiving DVB-T (Digital Video Broadcasting - Terrestrial), FM/DAB radio and DVB-S/S2 satellite television. It is also implemented for industrial installations - CCTV.

TECHNICAL DATA

Type: RG-6
Inner conductor: copper (CU), $\varnothing 1,13 \pm 0,02$ mm
Dielectric: Polyethylene physically foamed with nitrogen (N), $\varnothing 4,80 \pm 0,02$ mm
First screening: Al/PET foil, thickness 0.04 mm
Braiding: 144 wires x 0.12mm (thick braid, 98%), AL wire
Second screening: Al/PET foil, thickness 0.04 mm
Outer diameter PVC: $\varnothing 6,8$ mm, white
Characteristic impedance: 75 ± 3 Ohm
Flammability class: Eca
Shielding class: A/A+
Working temperature: $-20\text{ C} \div +70\text{ C}$
Laying temperature: $0\text{ C} \div +70\text{ C}$
Minimum bending radius [x cable diameter]: >8
Purpose: indoors
Compliance with standards: EN 13501-6:2014 (CPR), EN 50117 Klasa A/A+, EN 50575:2014 (Eca), 2011/65/EU;2015/863 (RoHS 3)
Length: 500 m
Brand: **CONOTECH**

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Date
2022-01-10

CATALOG CARD

Model



NS113TRI HQ 500m

ELECTRICAL DATA

Characteristic impedance (at frequency 200MHz)

75,6 Ohm

Unit capacity (C)

50,3 ± 2 pF/m

Wave speed reduction factor (Vf)

88 ± 1%

Dielectric permittivity efficiency

ε = 1,29

Echo Attenuation

48 dB ± 1dB

Cable Attenuation (at frequency 200MHz)

8,4 dB/100m

Screening efficiency factor 30-1000 [Mhz]

≥ 85 dB

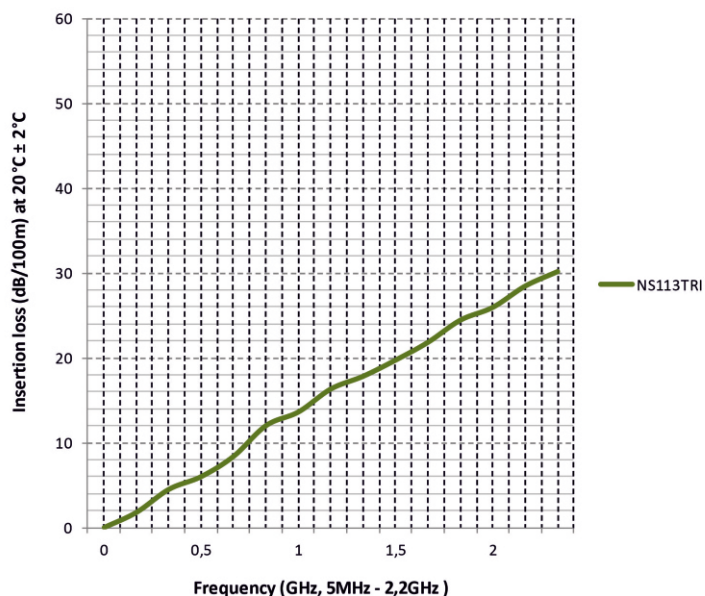
Screening efficiency factor 1500-2200 [Mhz]

≥ 75 dB

Table 1: NS113TRI cable attenuation in the frequency range 5-2200 MHz

Frequency [Mhz]	Measured value [db/100m]	Frequency [Mhz]	Measured value [db/100m]
5	1,8	800	17,8
50	4,5	1000	19,7
100	6,0	1200	21,8
200	8,4	1500	24,4
400	12,0	1800	25,9
500	13,6	2000	28,4
700	16,3	2200	30,1

NS113TRI



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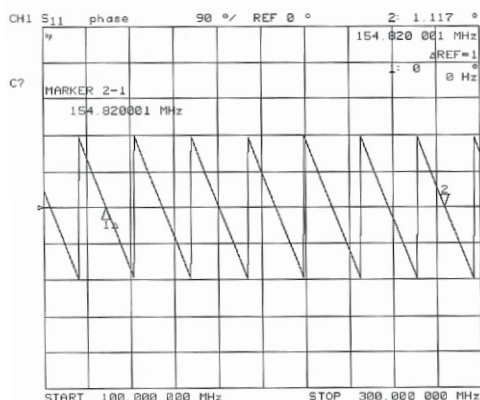
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CATALOG CARD

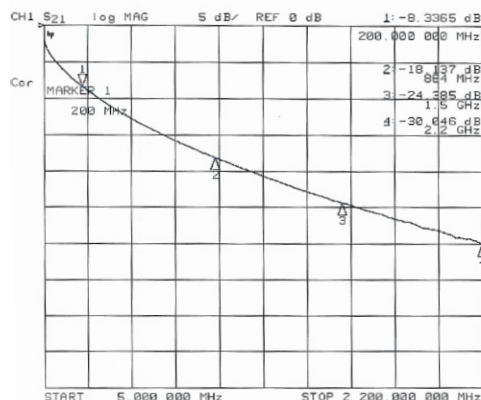
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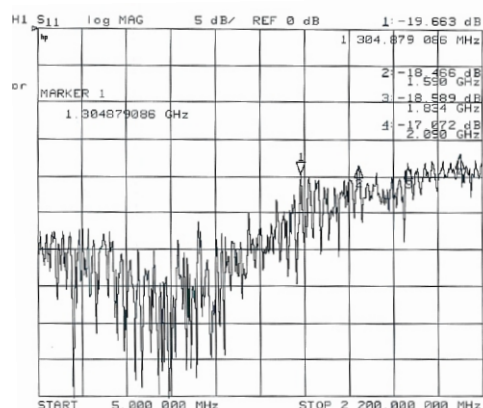
NS113TRI HQ 500m



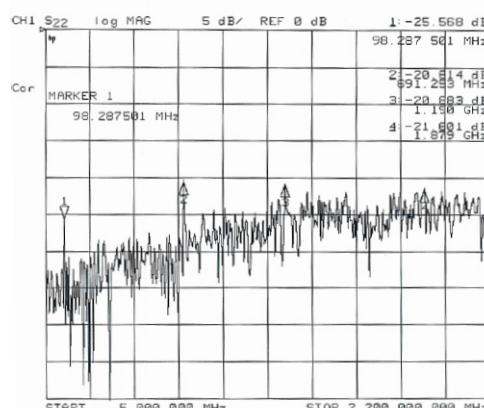
Graph 1: Waveform of the phase change as a function of frequency



Graph 2: Cable attenuation NS113TRI



Graph 3: Cable return loss NS113TRI - port 1



Graph 4: Cable return loss NS113TRI - port 2

TEST EQUIPMENT

- 1.Absorption pins, MDS 21, Rohde & Schwartz, Іл 10-5-2
- 2.Network analyzer, HP 8753 C, Hewlett-Packard, Іл 47-2-325
- 3.Array parameter meter S, HP 85046 B, Hewlett-Packard, Іл 10-7-3
- 4.Coaxial cable tester Calibration kit, HP 85036 B, Hewlett-Packard, Іл 60-019
5. 1503 C, Tektronix, Іл 74-0-33
- 6.Spectrum analyzer, MS 2601 K, Anritsu, Іл 47-2-278
- 7.Signal generator, Hewlett-Packard Іл 800-301656
- 8.Automatic meter C, E 315 A, MERATRONIC, Іл 08-3-4;
- 9.Absorption pins, MDS 22, Rohde & Schwartz, Іл 1801-1054

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