

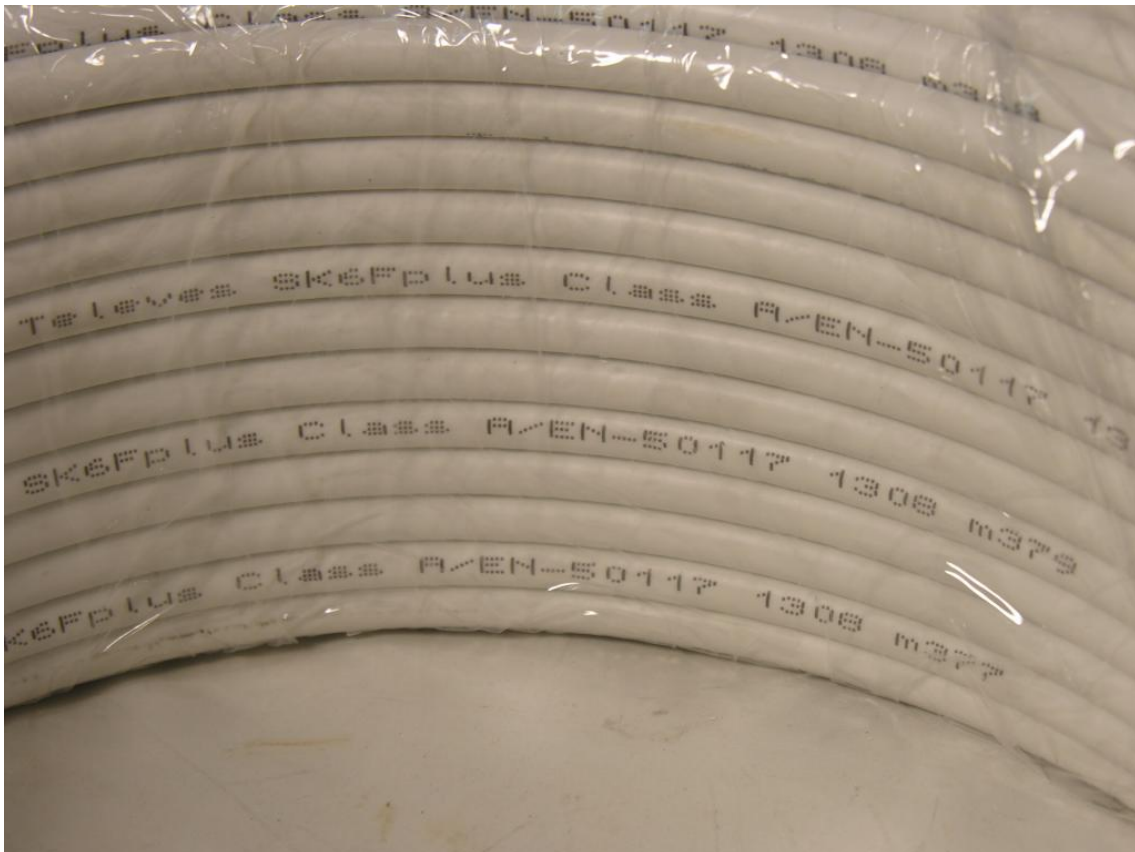
On **21/11/2022** document No. **TR12190011 [0]** is applied to the following elements:

REFERENCE	DESCRIPTION
414802	COAX.CAB.SK6F+ PVC Eca/A+ 19VAtC.A WH.250m
414832	COAX.CAB.SK6F+ PVC Eca/A+ WH.250m BOX

Test Report

Electrical Characterization

Made to: **Productos OEM**
Document N°: **IEI10091302002**
Date: **10-09-2013**
Reference: **414802**
Device: **2013-07-25_Cabo_Coaxial_414802**



Product Data

D.U.T. Id: **3732**

In Date: **29-07-2013**

D.U.T.:**2013-07-25_Cabo_Coaxial_414802**

Model: **SK6Fplus**

Reference: **414802**

Trade Mark: **Televes**

Standards

Standard	Title	Part	Section
UNE-EN 50117-2-4:2005	Coaxial cables	Part 2-4: Sectional specification for cables used in cable distribution networks	Indoor drop cables for systems operating at 5MHZ - 3000 MHZ

Standard Paragraphs

Standard	Paragraph	Title
UNE-EN 50117-2-4:2005	5.1.2.6	Transfer Impedance. Triaxial Method
UNE-EN 50117-2-4:2005	5.2.9	Helix Bend (Single Bend)
UNE-EN 50117-2-4:2005	5.2.7	Bending under tension (S Bend)
UNE-EN 50117-2-4:2005	5.1.2.7	Screening attenuation. Triaxial Method

Applied Procedures

Procedure	Description
INT-OEM-005	Transfer Impedance after mechanical tests (5MHz-30MHz)
INT-OEM-004	Screening attenuation after mechanical tests (30MHz-2150MHz)
INT-OEM-003	Attenuation after climatic tests (30MHz-2500MHz)

Measurements made

Result	Measure
Class A+	Transfer Impedance after mechanical tests (5MHz-30MHz)
Class A+	Screening attenuation after mechanical tests (30MHz-2150MHz)
	Attenuation after climatic tests (30MHz-2500MHz)

Made By:



Olalla Daponte Villanueva

Checked By:



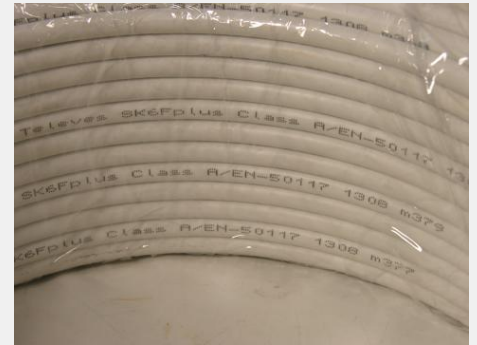
Miguel Duro Liñares

Aproved by:



Eduardo Castro Ares

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Transfer Impedance after mechanical tests (5MHz-30MHz)	Pag. 5
Screening attenuation after mechanical tests (30MHz-2150MHz)	Pag. 7
Attenuation after climatic tests (30MHz-2500MHz)	Pag. 9

D.U.T. Description**Administrative Data**D.U.T. Id: **3732**In Date: **29-07-2013****Product Data**D.U.T.: **2013-07-25_Cabo_Coaxial_414802**Trade Mark: **Televes**Model: **SK6Fplus**Reference: **414802****D.U.T. Images**Name **Im.1**Name **Im.2**Name **Im.3**

Transfer Impedance after mechanical tests (5MHz-30MHz)

Measure

TSP Id.: **INT-OEM-005**

Date: **03-09-2013**

Environmental Conditions

Temperature: **22.1°C**

Humidity: **52.1%**

Atmospheric Pressure: **1003mbar**

Used Equipment

Id	Equipment	Trade Mark	Model	Serial Nº
369	50/75 Matching Pad	Agilent	11852B	55420
158	Cable Agilent 11500B (12.4GHz)	Agilent	11500B	50438
366	Cable Agilent 11500B (12.4GHz)	Agilent	11500B	50440
62	Signal generator R&S (9KHz-3.3GHz)	R&S	SML03 1090.3000.13	102482
41	Measurement receiver R&S ESPI 3 9KHz-3GHz	R&S	ESPI-ref 1142.8007.03	100044
306	Triaxial system CoMeT	Rosenberger - Bedea	----	----
345	Bending test system	----	----	----

Measure Data

Measure Nº: **1** Measure Date: **04-09-2013** Tube length: **1 m**

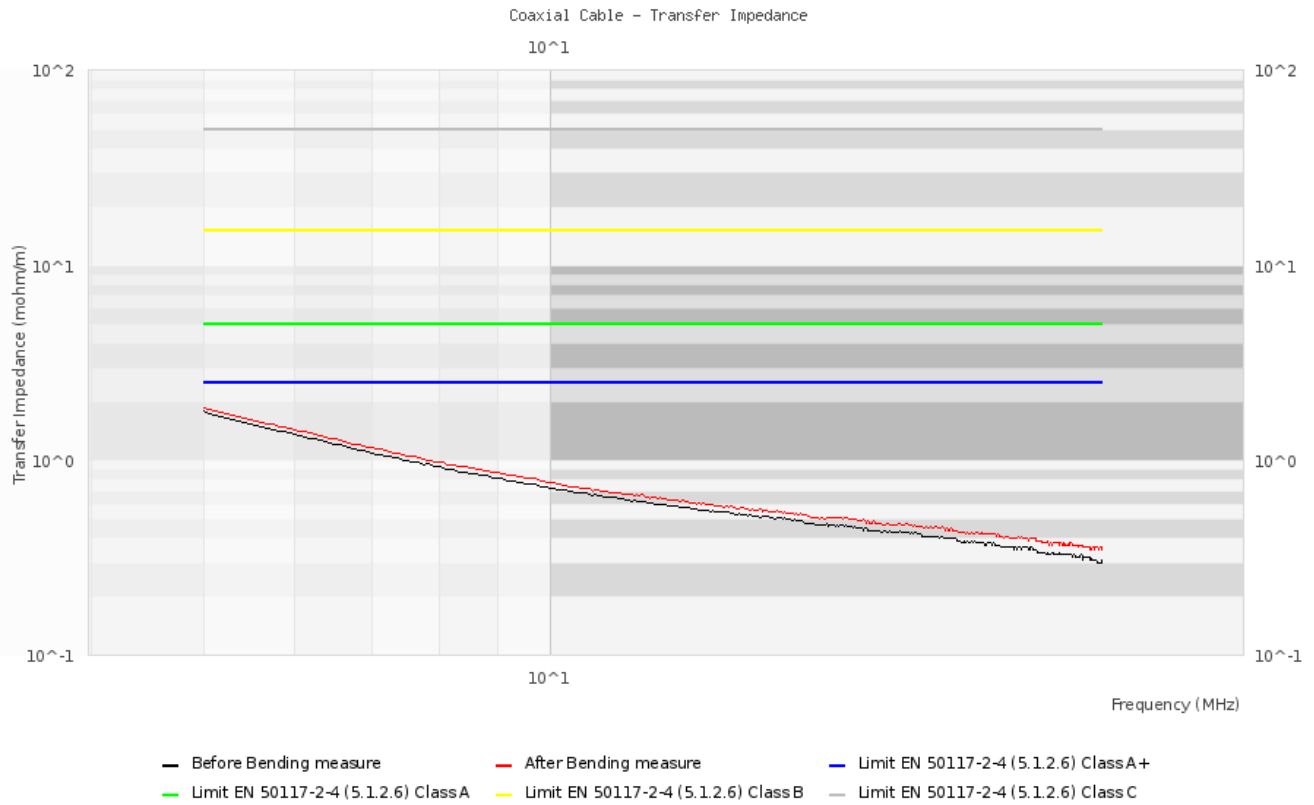
Simple Bending in Helix

Cycle Nº: **2** Laps Nº: **4** Maximum Tension (N): **1.5**
Preparation of Extremes: **Conector F** Tension Device: **Bending Test System** Length of Sample (m): **2.5**

Dynamic Bending in `S`

Cycle Nº: **1** Pulley Radius (cm): **7.5** Distance between Centers (cm): **30**
Bending Length (cm): **100** Bending Angle (º): **120** Displacement Speed: **<1 m/s**
Preparation of Extremes: **F Connector** Tension Device: **Bending Test System** Length of Sample (m): **2.5**

Graph



Measure	Zt (mohm/m)	F. (MHz)	C. A+ Limit	Class A+	C. A Limit	Class A	C. B Limit	Class B	C. C Limit	Class C
Before Bending	1.8	5	2.5	✓	5	✓	15	✓	50	✓
After Bending	1.88	5	2.5	✓	5	✓	15	✓	50	✓

Screening attenuation after mechanical tests (30MHz-2150MHz)

Measure

TSP Id.: **INT-OEM-004**

Date: **03-09-2013**

Environmental Conditions

Temperature: **22.1°C**

Humidity: **52.1%**

Atmospheric Pressure: **1003mbar**

Used Equipment

Id	Equipment	Trade Mark	Model	Serial Nº
369	50/75 Matching Pad	Agilent	11852B	55420
158	Cable Agilent 11500B (12.4GHz)	Agilent	11500B	50438
366	Cable Agilent 11500B (12.4GHz)	Agilent	11500B	50440
62	Signal generator R&S (9KHz-3.3GHz)	R&S	SML03 1090.3000.13	102482
41	Measurement receiver R&S ESPI 3 9KHz-3GHz	R&S	ESPI-ref 1142.8007.03	100044
306	Triaxial system CoMeT	Rosenberger - Bedea	----	----
345	Bending test system	----	----	----

Attenuation after climatic tests (30MHz-2500MHz)**Measure**TSP Id.: **INT-OEM-003**Date: **05-09-2013****Environmental Conditions**Temperature: **22.1°C**Humidity: **52.1%**Atmospheric Pressure: **1003mbar****Used Equipment**

Id	Equipment	Trade Mark	Model	Serial Nº
369	50/75 Matching Pad	Agilent	11852B	55420
370	50/75 Matching Pad	Agilent	11852B	55395
3	Network analyzer Agilent N5230A	Agilent Technologies, Inc.	N5230A	MY45000663
158	Cable Agilent 11500B (12.4GHz)	Agilent	11500B	50438
366	Cable Agilent 11500B (12.4GHz)	Agilent	11500B	50440
11	Climatic chamber	Angelantoni	Challenge 800 S R (CH800SR)	11018

Measure Data

Measure Nº: **1**

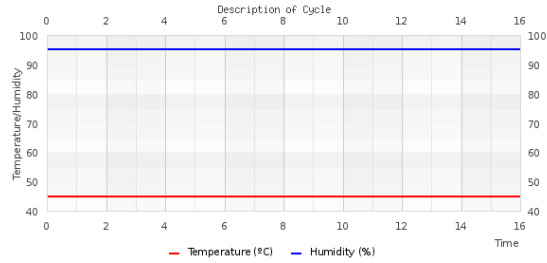
Measure Date: **05-09-2013**

Humidity Cycle

Cycle Nº: **1**

Duration (Hours): **16**

Point	Temperature (°)	Humidity (%)	Duration (Horas)
1	45	95	16

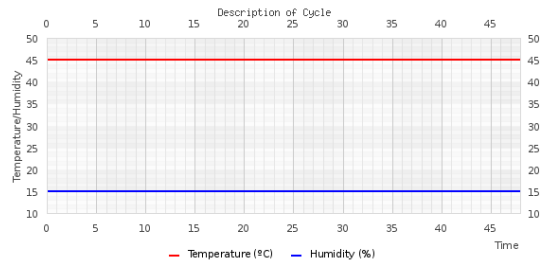


Drying Cycle

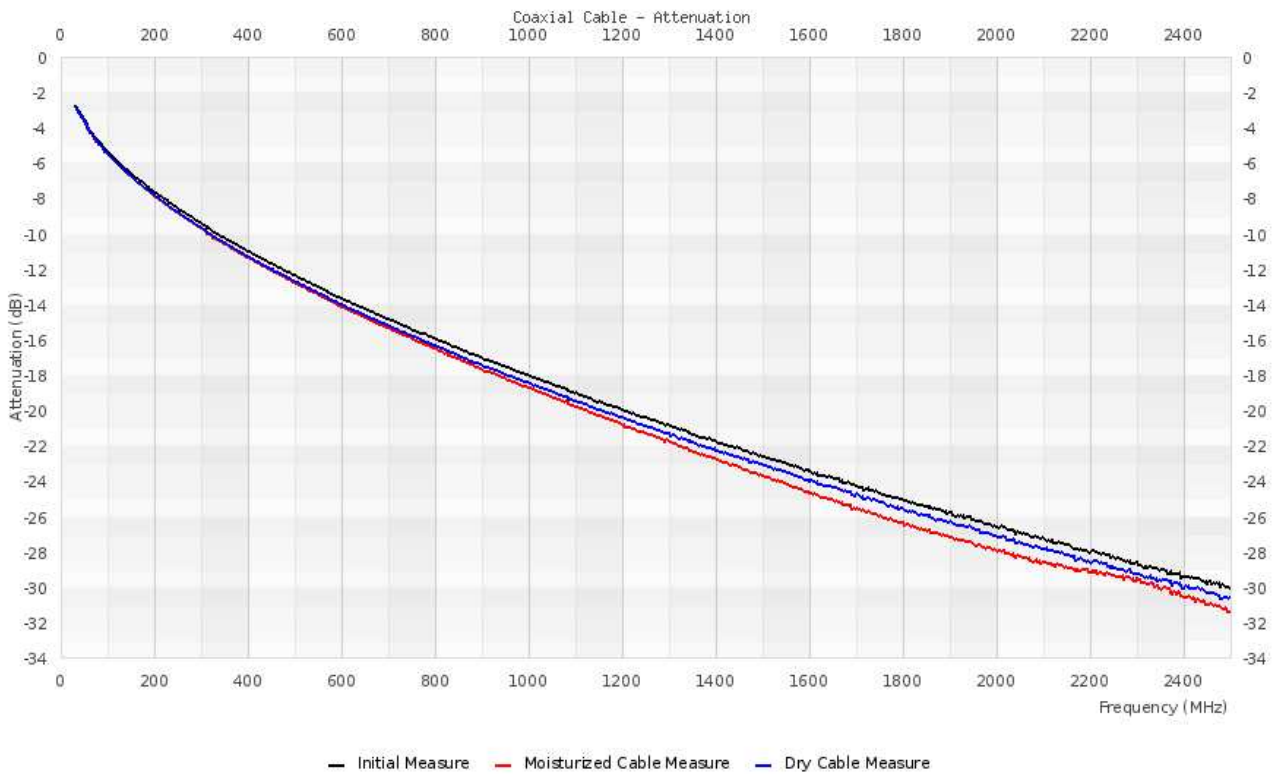
Cycle Nº: **1**

Duration (Hours): **48**

Point	Temperature (°)	Humidity (%)	Duration (Horas)
1	45	15	48



Graph



Coments

Sample length = 90m
 Attenuation after Drying Cycle [862MHz] = 18,97dB/100m