Basler

Technical Specification

GigE CAT 6 SSTP cable, screw lock, high flex, vertical connector, 5 m

for scout GigE series and pilot series

Order Number: 2000028340

Version: 01 Language: 000 (English)

Release Date: 27th February 2009

Basler AG

An der Strusbek 60-62

22926 Ahrensburg, Germany

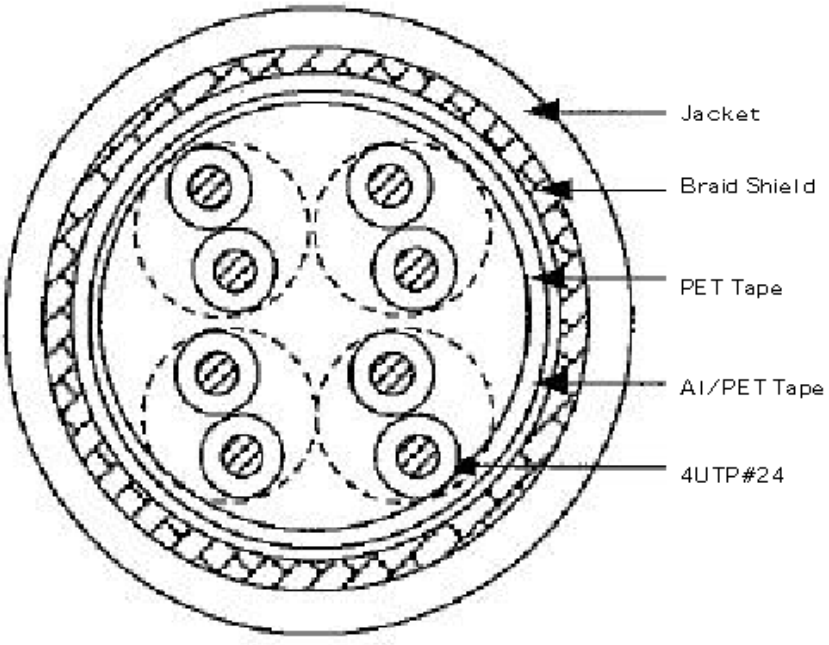
Specification for:

Equipment	GigE CAT 6 SSTP cable, screw lock, high flex, vertical connector, 5 m		
Part description	GigE CAT6 SSTP; SL vertical os, HF, 5 m	Order number:	2000028340

Technical Specification:

1) Construction

Conductor	Material	Tinned Annealed Copper
	AWG	24
	Composition (mm)	19/0.12
	Conductor Dia. (mm)	0.60
Insulation	Material	PE
	Normal Thickness (mm)	0.235
	Nom. Insulation Dia (mm)	1.07
	Colour	WH/YE, OR/GR, BR/RD, BK/BL
Twisting (Direction)		2C(S)
Cable Assembly		4UTP+Filler (S)
Cabling	Material	PP
Outer Shield(1)	Material	AL-PET
Outer Shield(2)	Material	Tinned Annealed Copper
	Stranding (mm)	0.12
	Coverage (%)	min. 85
Jacket 1	Material	PVC(lead free)
	Colour	**BLACK**
	Nominal Thickness (mm)	0.81
	Diameter (±0.2mm)	6.80
	UL Certification	UL20276 80°C / 30V



2) Flexibility

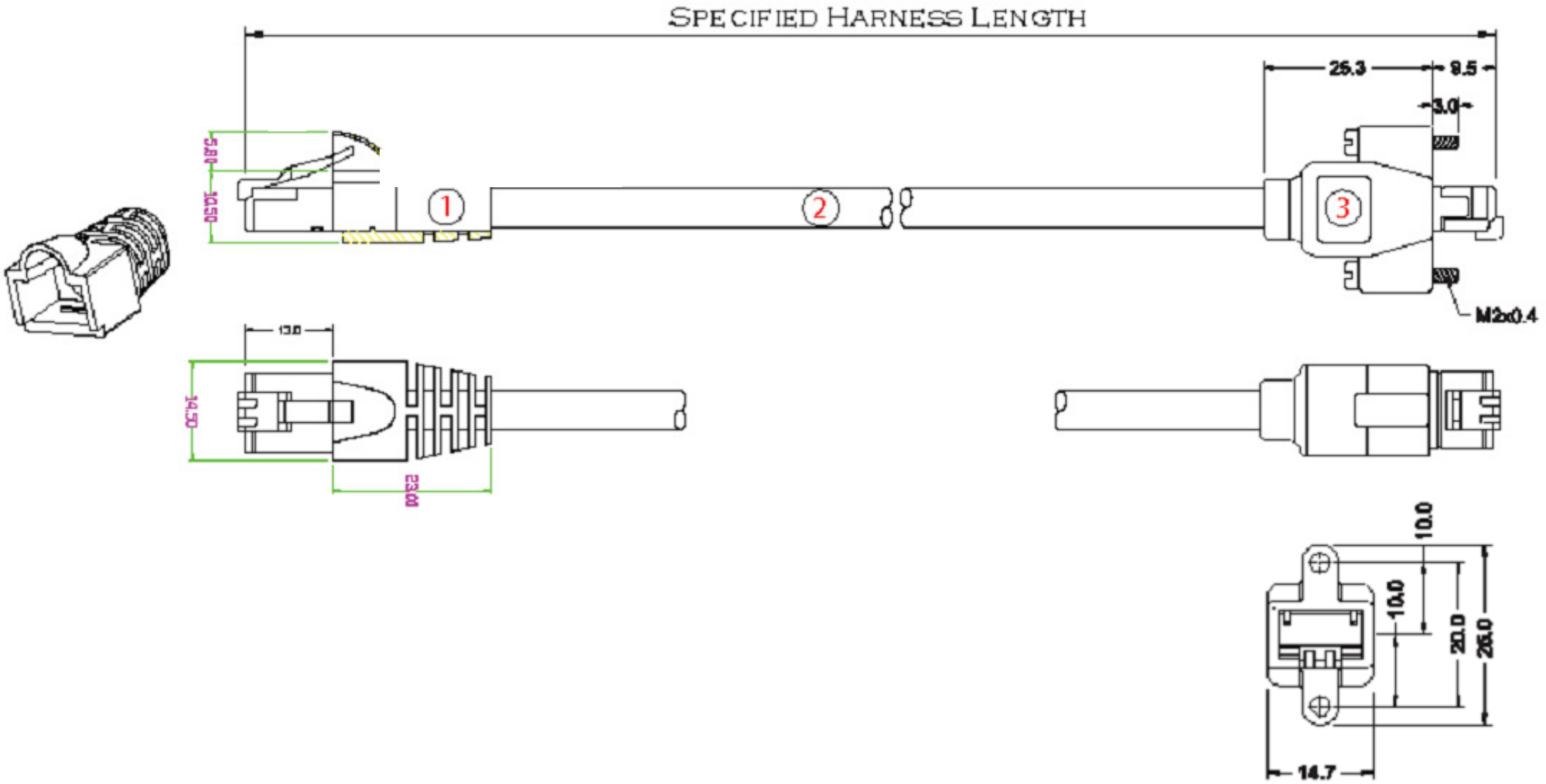
Static Bend	6 x OD (=40.8mm)
Dynamic Flexing	pls check suitability in application
Chain Cable Compliant to	"HN120/0.5" to min. 1000k cycles

3) Cable Performance

Elec. Properties (at 20°C)	Max Conductor DC Resistance (Ω/km)	88
	Min Insulation DC Resistance(MΩ.km)	10
	Dielectric Withstand AC V/1min	500
	Attenuation (nom. dB/100M)	65 (at 250MHz) *
	Characteristic Impedance(TDR)	nom. 100

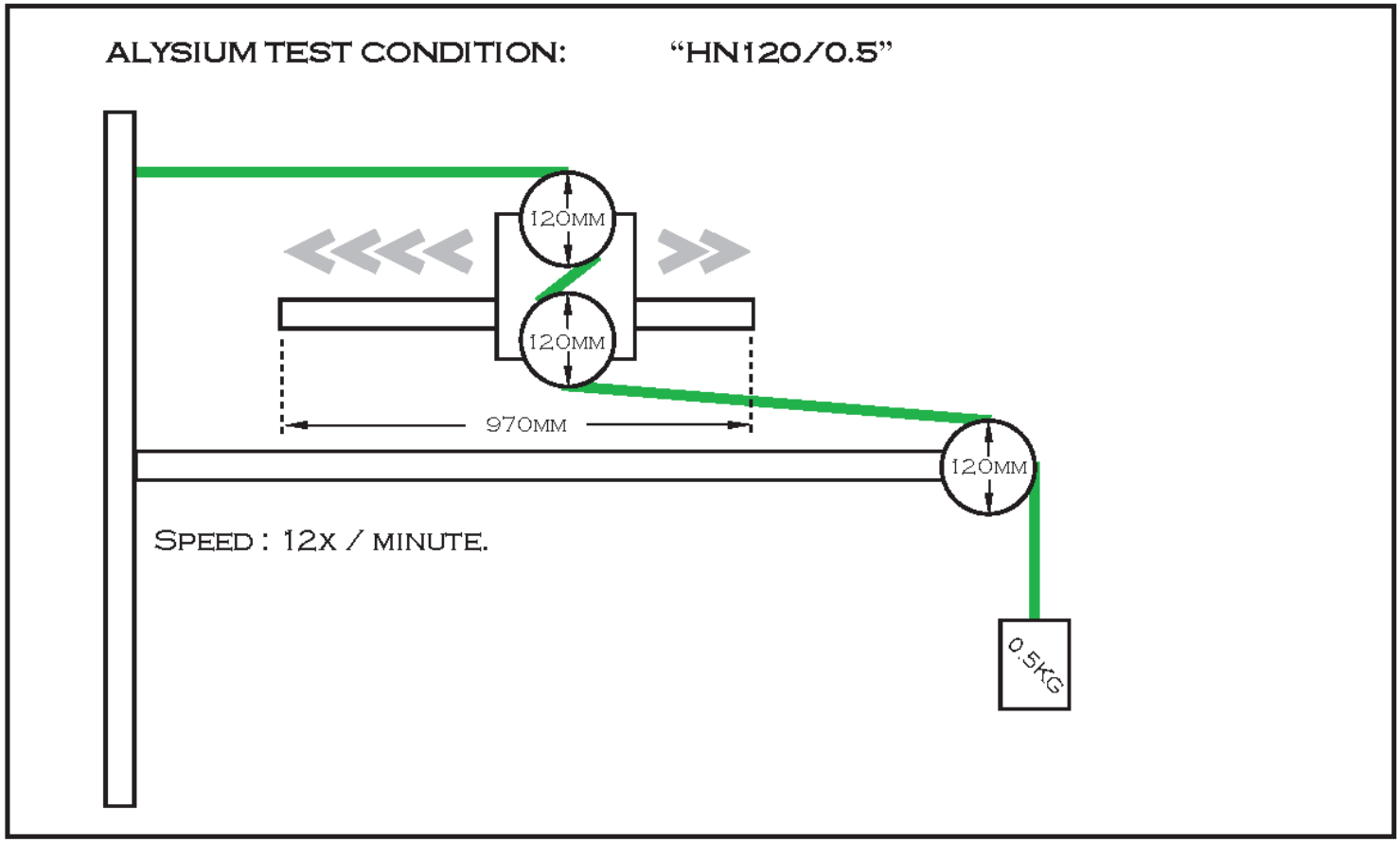
* reference value only

Drawing:

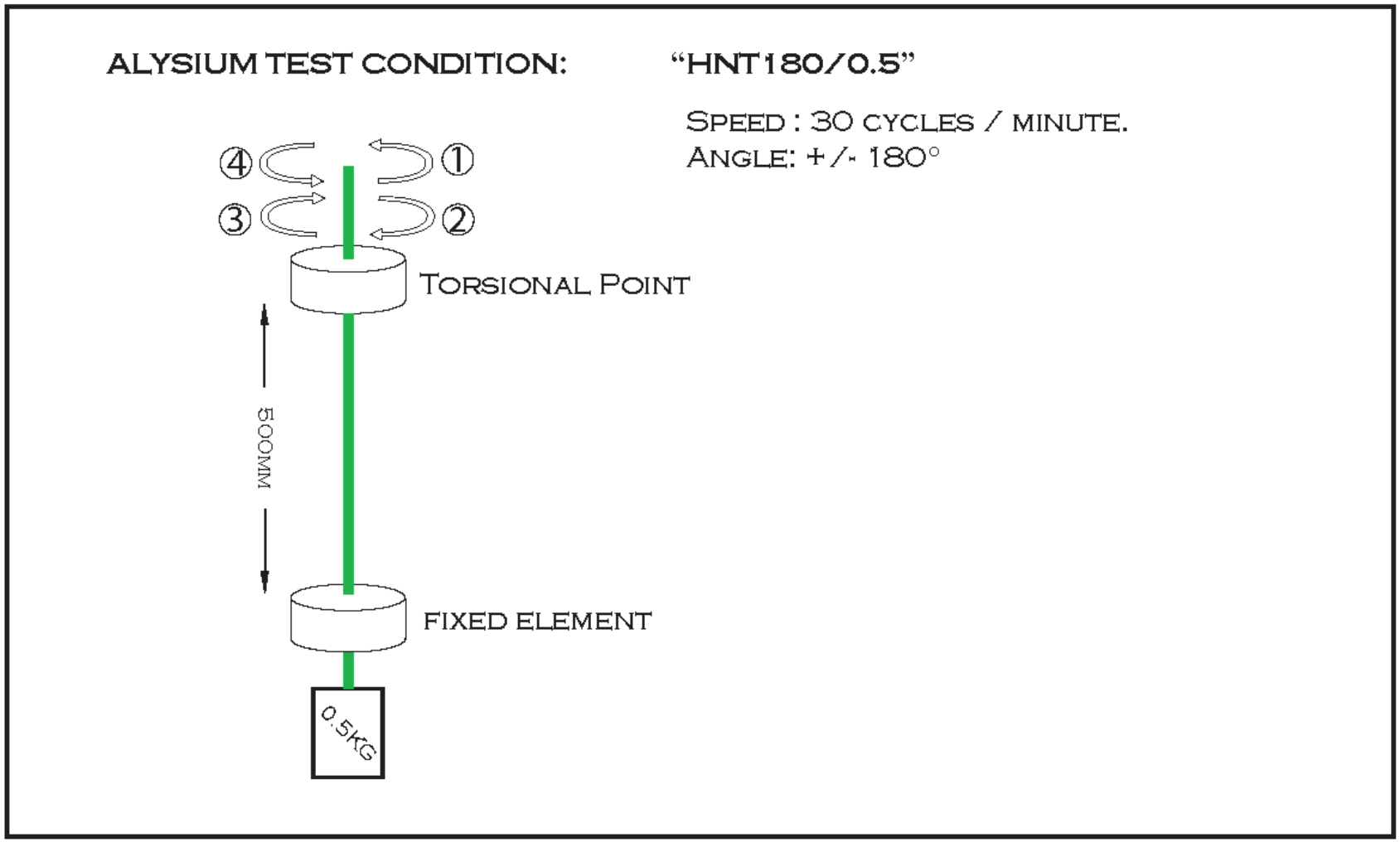

SPECIFIED HARNESS LENGTH
25.3
9.5
3.0
M2x0.4
1
2
3
5.80
10.50
13.0
14.50
23.00
10.0
10.0
20.0
26.0
14.7

Test Conditions:

1) Drag chain test:



2) Robotic Test:



Initial Sample Inspection Report (ISIR)
Electrical Properties Measurement Report

Specification: MCDC-(C6)-830A
Description: CAT6 S-UTP #24 Chain Cable
Measurements: 1. Characteristic Impedance at TDR (differential mode)
2. Attenuation

(1) Characteristic Impedance at TDR (differential mode)

Cable Length for Measurement: 1 MTR
Tester: Tektronix Digital Sampling Oscilloscope, TDS8000
Results:

Meas. Pt	Impedance Measurement (ohm) *
2ns	Ave. 91
5ns	Ave. 92
Average:	92

* measured with drain wire and remaining conductor floating

Impedance specification is 100 +/- 10 Ohm. We measured impedance at 2ns and 5ns points and took the average readings to compare with the specification values.

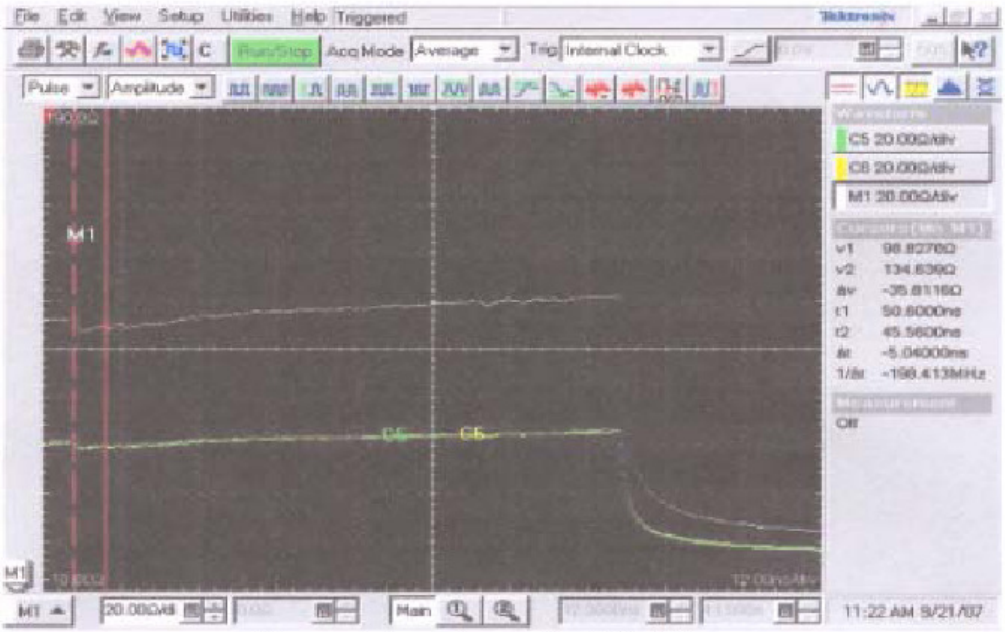


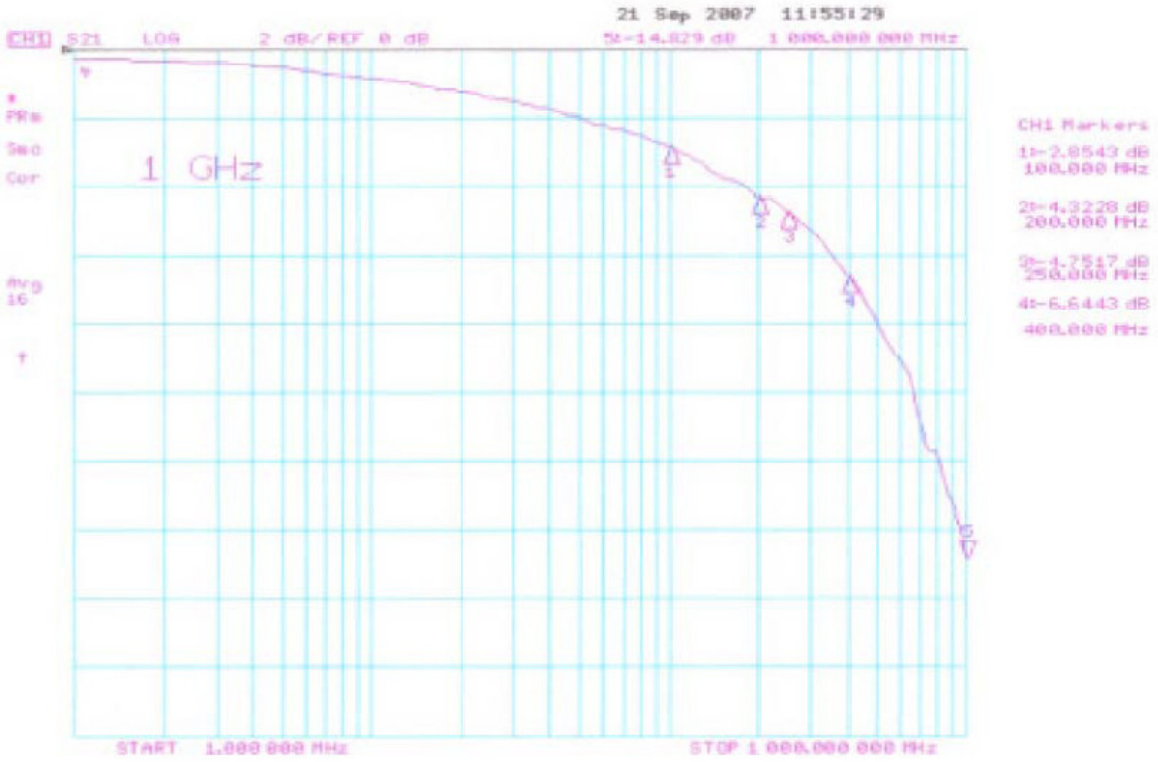
Figure 1: Impedance for WH-YE

(2) Attenuation

Cable Length for Measurement: 10 MTR
Tester: HP Network Analyzer, 8753E
Balun Model: AESA, BAL 1000 (1GHz)

Attenutation results taken from ave. Results

Measurement Point (MHz)	Attenuation Measurement (dB/M)
100	ave. 0.30
200	ave. 0.45
250	ave. 0.50
400	ave. 0.70
1000	ave. 1.50



Remarks: Above data are measurements from a typical lot, not a guarantee.

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