

Flexiform 405 NM

Reformable Coaxial Cables

Construction:

Features & Benefits:

Reformable alternative to semi-rigid coaxial cables

Offers the unique ability to be hand-formed, no special tools required

Outstanding shielding properties

Fluoropolymer (FJ) and halogen free jacket (HFJ) versions available

Magnetic conductors also available on request

Alternative jacket colours available on request

Construction:

Flexiform 405 NM

	Ø (in)	Ø (mm)
Conductor.....Silver plated copper (1x0,56)	0.022	0,56
Dielectric.....Solid extruded PTFE	0.066	1,70
Braid.....Tin-soaked tin plated copper	0.086	2,20
Weight.....15 kg/km		
Operating temperature.....-65 / +165°C		
Order reference.....31000-405-03		

Flexiform 405 NM FJ

	Ø (in)	Ø (mm)
Jacket.....FPI 205, Blue	0.102	2,60
Weight.....18 kg/km		
Operating temperature.....-65 / +165°C		
Order reference.....31000-405-04		

Flexiform 405 NM HFJ

	Ø (in)	Ø (mm)
Jacket.....HFS 80, Blue	0.125	3,20
Weight.....21 kg/km		
Operating temperature.....-25 / +80°C		
Order reference.....31000-405-05		

Flexiform 405 NM:



Flexiform 405 NM FJ:



Flexiform 405 NM HFJ:



Technical Data / Attenuation & Power:

Electrical:

Impedance.....	50 ± 2 Ohms
Capacitance.....	nom 94 pF/m
Velocity of signal propagation.....	70%
Signal delay.....	4.8 ns/m
Working voltage, AC r.m.s.....	1500 max
Working voltage, DC.....	3000 max
Attenuation, typical values.....	see table
(nominal values at an air temperature of +20°C)	
Power, typical values.....	see table
(ambient temperature of 40°C at sea level and VSWR 1.0)	
Suitable for frequencies.....	up to 18 GHz
Shielding effectiveness.....	typically <-130dB/m

Attenuation:

(MHz)	(dB/100m)
400	43
1000	70
1800	97
2000	102
2400	113
3000	127
5000	172
10000	249
12000	276
18000	346

Environmental & Mechanical:

Minimum bend radius (MBR).....	single bend: 6mm
Minimum bend radius (MBR).....	multiple bends: 25mm
Flame resistance.....	passes IEC 60332-3-24
Connectors.....	as semi-rigid M17/130-RG 405

Average Power:

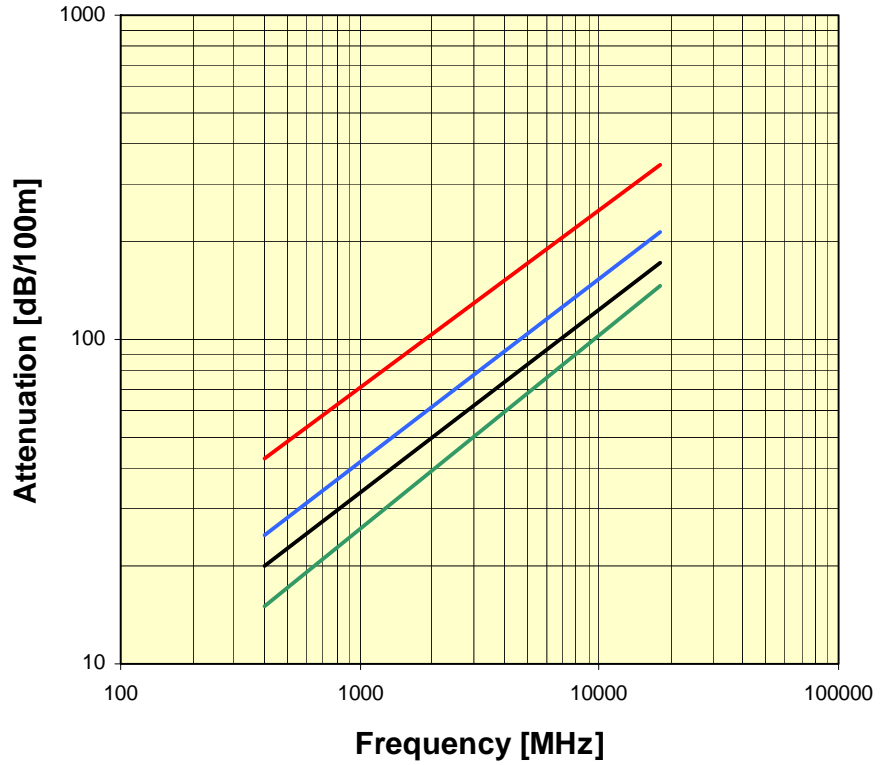
(MHz)	(W)
400	253
1000	157
1800	116
2000	110
2400	100
3000	89
5000	69
10000	47
12000	42
18000	33

Data provided indicates nominal values unless stated otherwise and is only valid for reference purposes at the time of publication and is subject to change without prior notice.

Attenuation & Power Graphs:

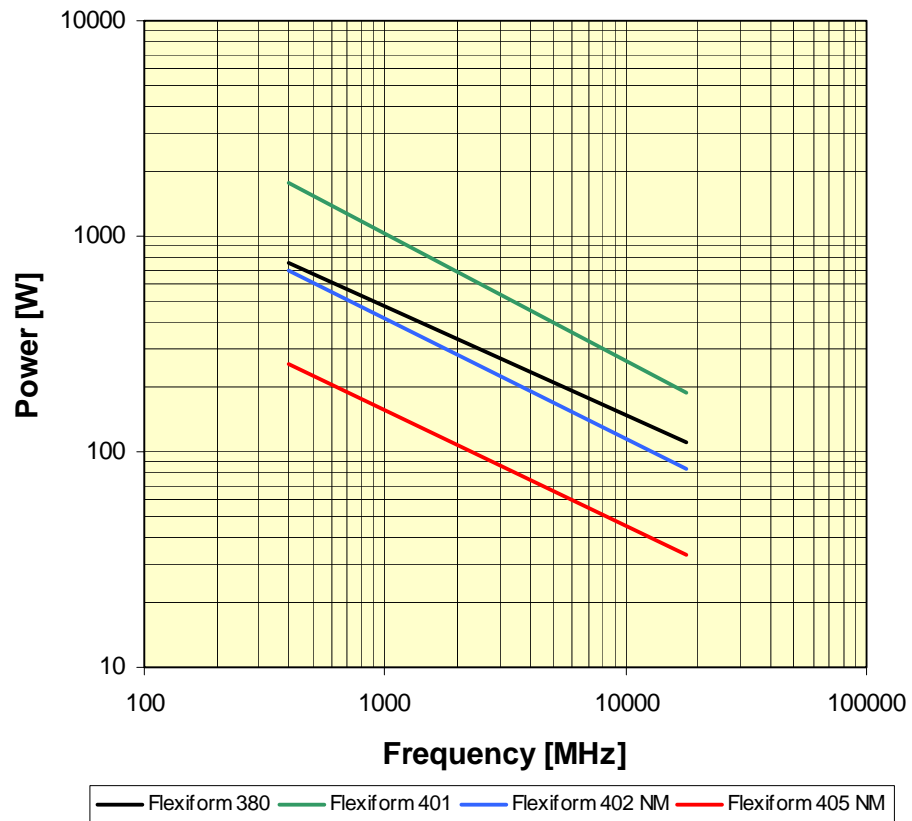
Cable Attenuation:

Nominal values at +25°C ambient temperature



Average Power:

Ambient temperature of 40°C at sea level and VSWR 1.0



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