

## Flexiform<sup>®</sup> 402 NM

Re-formable coaxial cable

### 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 jacket (FJ), halogen free jacket (HFJ) and alternative colours also available

Magnetic conductors also available

Ref: CC-eFF402NM-05

Date: 2006-08-14

Approved by: 

### Construction:

#### Flexiform 402 NM

		Ø (in)	Ø (mm)
Conductor	Silver plated copper (1x0,94)	0.037	0,94
Dielectric	Solid extruded PTFE	0.116	2,95
Braid	Tin-soaked tin plated copper	0.141	3,60
Weight	44 kg/km		
Operating temperature	-65 / +165°C		
Order reference:	31000-402-03		

#### Flexiform 402 NM FJ

Jacket	FPI 205, Blue	0.161	4,10
Weight	52 kg/km		
Operating temperature	-65 / +165°C		
Order reference:	31000-402-04		

#### Flexiform 402 NM HFJ

Jacket	HFI 100, Black	0.181	4,60
Weight	53 kg/km		
Operating temperature	-25 / +100°C		
Order reference:	31000-402-05		

### Flexiform 402 NM:



### Flexiform 402 NM FJ:



### Flexiform 402 NM HFJ:



### 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.	2500 max
Working voltage, DC	5000 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table
Suitable for frequencies	up to 18 GHz
Shielding effectiveness	typically <-130dB/m

### Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 10mm
Minimum bend radius (MBR) dynamic use	multiple bends: 40mm
Flame resistance	passes IEC 60332-3-24
Flammability	UL 94 V-0
Connectors	As semi-rigid M17/130-RG 402

### Attenuation:

(MHz)	(dB/100m)
400	25
1000	41
1800	57
2000	60
2400	67
3000	76
5000	102
10000	152
18000	215

### Average Power:

(MHz)	W
400	686
1000	419
1800	308
2000	291
2400	265
3000	236
5000	182
10000	122
18000	83

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.