

Page	Name	Impedance	Diameter over tinned braid (mm & in)	
G.2	Flexiform 220	50 Ohm	2,80	0,110"
G.3	Flexiform 380	50 Ohm	4,35	0,171"
G.4	Flexiform 401	50 Ohm	6,40	0,250"
G.5	Flexiform 401 L	50 Ohm	6,35	0,250"
G.6	Flexiform 402 NM	50 Ohm	6,60	0,141"
G.7	Flexiform 402 L	50 Ohm	3,60	0,141"
G.8	Flexiform 405 NM	50 Ohm	2,20	0,086"

## Flexiform<sup>®</sup> 220

### Re-formable Coaxial

#### Alternatives:

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

#### Notes:

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

#### Construction:

##### Flexiform 220

		(in)	(mm)
Conductor	Silver plated copper (1x0,715)	0.028	0,71
Dielectric	Solid extruded PTFE	0.086	2,20
Braid	Tin-soaked tin plated copper (0,127)	0.110	2,80
Weight	29 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-220-00		

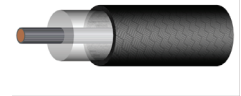
##### Flexiform 220 FJ

Jacket	FPI 205, Blue	0.125	3,20
Weight	34 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-220-01		

##### Flexiform 220 HFJ

Jacket	HFI 100, Black	0.149	3,80
Weight	38 kg/km		
Temperature rating (°C)	-40 / +100°C		
Order reference	31000-220-02		

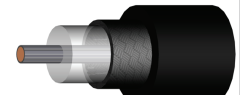
#### Flexiform 220



#### Flexiform 220 FJ



#### Flexiform 220 HFJ



#### Electrical:

Impedance	50 $\pm$ 2 Ohms
Capacitance	94 pF/m
Velocity of signal propagation	70%
Signal delay	4.8 ns/m
Working voltage, AC r.m.s.	2000 max
Working voltage, DC	4000 max
Attenuation, typical values (nominal values at an air temperature of +20°C)	see table (top right)
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table (bottom right)
Suitable for frequencies	up to 18 GHz
Shielding effectiveness	typically <-130dB/m

Attenuation	
MHz	dB/100m
400	32
900	49
1800	73
2000	80
2400	87
3000	98
5000	128
10000	190
18000	270

#### Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation)	single bend: 20mm
Minimum bend radius (MBR) dynamic use	multiple bends: 80mm
Flame resistance	passes IEC 60332-3-24
Flammability	UL 94 V-0
Connectors	Custom made connector required

\*Average power

Figures stated are for un-jacketed and FJ versions only

Average Power *	
MHz	W
400	320
900	210
1800	145
2000	135
2400	115
3000	110
5000	75
10000	55
18000	40

**Alternatives:**

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

**Notes:**

All dimensions nominal (± 4%) unless otherwise stated.  
All dimensions in mm.

**Construction:**

**Flexiform 380**

		(in)	(mm)
Conductor	Silver plated copper (1x1,20)	0.047	1,20
Dielectric	Solid extruded PTFE	0.149	3,80
Braid	Tin-soaked tin plated copper (0,127)	0.171	4,35
Weight	57 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-380-00		

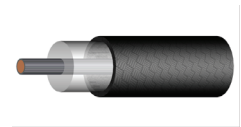
**Flexiform 380 FJ**

Jacket	FPI 205, Blue	0.198	5,05
Weight	65 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-380-01		

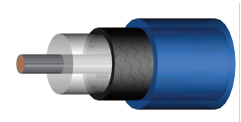
**Flexiform 380 HFJ**

Jacket	HFI 100, Black	0.210	5,35
Weight	69 kg/km		
Temperature rating (°C)	-40 / +100°C		
Order reference	31000-380-04		

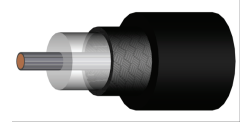
**Flexiform 380**



**Flexiform 380 FJ**



**Flexiform 380 HFJ**



**Electrical:**

Impedance	50 ± 2 Ohms
Capacitance	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 (top right)
Power, typical values (ambient temperature of 40°C at sea level and VSWR 1.0)	see table (bottom right)
Suitable for frequencies	up to 18 GHz
Shielding effectiveness	typically <-130dB/m

Attenuation	
MHz	dB/100m
400	20
900	30
1800	44
2000	46
2400	52
3000	59
5000	79
10000	120
18000	172

**Environmental & Mechanical:**

Minimum bend radius (MBR) single bend (installation)	single bend: 20mm
Minimum bend radius (MBR) dynamic use	multiple bends: 80mm
Flame resistance	passes IEC 60332-3-24
Flammability	UL 94 V-0
Connectors	Custom made connector required

\*Average power

Figures stated are for un-jacketed and FJ versions only

Average Power *	
MHz	W
400	750
900	500
1800	350
2000	330
2400	300
3000	268
5000	208
10000	147
18000	110

**Alternatives:**

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

**Notes:**

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

**Construction:**

**Flexiform 401**

		(in)	(mm)
Conductor	Silver plated copper (1x1,60)	0.066	1,67
Dielectric	Solid extruded PTFE	0.208	5,30
Braid	Tin-soaked tin plated copper	0.250	6,40
Weight	110 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-401-00		

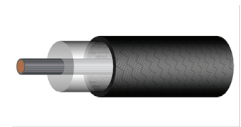
**Flexiform 401 FJ**

Jacket	FPI 205, Blue	0.271	6,90
Weight	130 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-401-01		

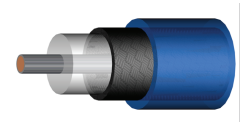
**Flexiform 401 HFJ**

Jacket	HFS 80 T, Blue	0.299	7,60
Weight	130 kg/km		
Temperature rating (°C)	-25 / +80°C		
Order reference	31000-401-02		

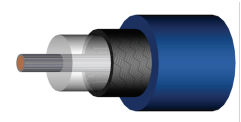
**Flexiform 401**



**Flexiform 401 FJ**



**Flexiform 401 HFJ**



**Electrical:**

Impedance	50 $\pm$ 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

Attenuation	
MHz	dB/100m
400	15
1000	25
1800	36
2000	38
2400	42
3000	48
5000	66
10000	101
18000	147

**Environmental & Mechanical:**

Minimum bend radius (MBR) single bend (installation)	single bend: 40mm
Minimum bend radius (MBR) dynamic use	multiple bends: 120mm
Flame resistance	passes IEC 60332-3-24
Flammability	UL 94 V-0
Connectors	As semi-rigid M17/129-RG 401

\*Average power

Figures stated are for un-jacketed and FJ versions only

Average Power *	
MHz	W
400	1769
1000	1056
1800	770
2000	728
2400	660
3000	587
5000	450
10000	294
18000	190

**Alternatives:**

'Profiled' low loss dielectric offers reduced insertion loss over the standard Flexiform 401 reformable coaxial cable range

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

**Notes:**

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

**Construction:**

**Flexiform 401 L**

		(in)	(mm)
Conductor	Silver plated copper (1x1,88)	0.074	1,88
Dielectric	Profile-extruded PTFE	0.209	5,31
Braid	Tin-soaked tin plated copper	0.250	6,35
Weight	85 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31400-401-00		

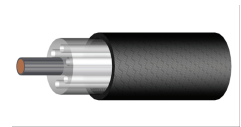
**Flexiform 401 L FJ**

Jacket	FPI 205, Blue	0.271	6,90
Weight	100 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31400-401-01		

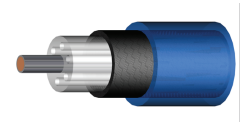
**Flexiform 401 L HFJ**

Jacket	HFI 100, Blue	0.299	7,60
Weight	100 kg/km		
Temperature rating (°C)	-40 / +100°C		
Order reference	31400-401-02		

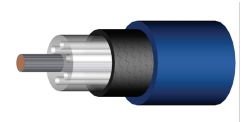
**Flexiform 401 L**



**Flexiform 401 L FJ**



**Flexiform 401 L HFJ**



**Electrical:**

Impedance	50 $\pm$ 1 Ohms
Capacitance	nom 84 pF/m
Velocity of signal propagation	79%
Signal delay	4.21 ns/m
Working voltage, AC r.m.s.	1250 max
Working voltage, DC	2500 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 6 GHz
Shielding effectiveness	typically <-130dB/m

Attenuation	
MHz	dB/100m
400	13
1000	22
1800	32
2000	33
2400	37
3000	43
4000	52
5000	58
6000	66

**Environmental & Mechanical:**

Minimum bend radius (MBR) single bend (installation)	single bend: 40mm
Minimum bend radius (MBR) dynamic use	multiple bends: 120mm
Flame resistance	passes IEC 60332-3-24
Flammability	UL 94 V-0
Connectors	Modified semi-rigid M17/129-RG 401**

\*Average power

\*\*Connectors

Figures stated are for un-jacketed and FJ versions only  
Inner pin modified for the larger centre conductor required for lower attenuation

Average Power *	
MHz	W
400	2000
1000	1190
1800	870
2000	820
2400	745
3000	660
4000	570
5000	510
6000	460

**Alternatives:**

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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

Steel conductors also available

**Notes:**

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

**Construction:**

**Flexiform 402 NM**

		(in)	(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		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-402-03		

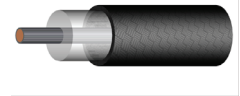
**Flexiform 402 NM FJ**

Jacket	FPI 205, Blue	0.161	4.10
Weight	52 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-402-04		

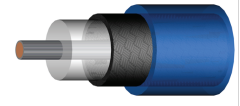
**Flexiform 402 NM HFJ**

Jacket	HFI 100, Black	0.181	4.60
Weight	53 kg/km		
Temperature rating (°C)	-40 / +100°C		
Order reference	31000-402-33		

**Flexiform 402 NM**



**Flexiform 402 NM FJ**



**Flexiform 402 NM HFJ**



**Electrical:**

Impedance	50 $\pm$ 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

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

**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

\*Average power

Figures stated are for un-jacketed and FJ versions only

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

**Alternatives:**

'Profiled' low loss dielectric offers reduced insertion loss over the standard Flexiform 402 reformable coaxial cable range

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

**Notes:**

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

**Construction:**

**Flexiform 402 L**

	(in)	(mm)
Conductor	Silver plated copper (1x1,02)	0.040 1,02
Dielectric	Profile-extruded PTFE	0.116 2,95
Braid	Tin-soaked tin plated copper	0.141 3,60
Weight	39 kg/km	
Temperature rating (°C)	-65 / +180°C	
Order reference	31400-402-00	

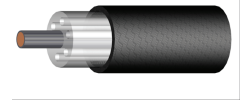
**Flexiform 402 L FJ**

Jacket	FPI 205, Blue	0.161 4,10
Weight	46 kg/km	
Temperature rating (°C)	-65 / +180°C	
Order reference	31400-402-01	

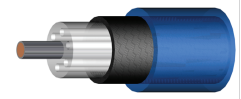
**Flexiform 402 L HFJ**

Jacket	HFI 100, Blue	0.181 4,60
Weight	49 kg/km	
Temperature rating (°C)	-40 / +100°C	
Order reference	31400-402-02	

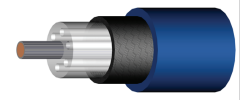
**Flexiform 402 L**



**Flexiform 402 L FJ**



**Flexiform 402 L HFJ**



**Electrical:**

Impedance	50 $\pm$ 2 Ohms
Capacitance	nom 85 pF/m
Velocity of signal propagation	78%
Signal delay	4.3 ns/m
Working voltage, AC r.m.s.	1250 max
Working voltage, DC	2500 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 6 GHz
Shielding effectiveness	typically <-130dB/m

Attenuation	
MHz	dB/100m
400	23
1000	38
1800	52
2000	55
2400	61
3000	69
4000	81
5000	92
6000	105

**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	Modified semi-rigid M17/130-RG 402**

\*Average power

\*\*Connectors

Figures stated are for un-jacketed and FJ versions only  
Inner pin modified for the larger centre conductor required for lower attenuation

Average Power *	
MHz	W
400	740
1000	459
1800	337
2000	318
2400	289
3000	256
4000	219
5000	194
6000	175

**Alternatives:**

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Outstanding shielding properties

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

Steel conductors also available

**Notes:**

All dimensions nominal (± 4%) unless otherwise stated.  
All dimensions in mm.

**Construction:**

**Flexiform 405 NM**

		(in)	(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		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-405-03		

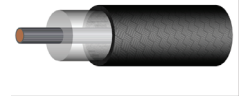
**Flexiform 405 NM FJ**

Jacket	FPI 205, Blue	0.102	2,60
Weight	18 kg/km		
Temperature rating (°C)	-65 / +180°C		
Order reference	31000-405-04		

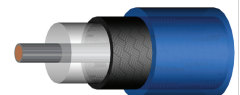
**Flexiform 405 NM HFJ**

Jacket	HFS 80 T, Blue	0.125	3,20
Weight	21 kg/km		
Temperature rating (°C)	-25 / +80°C		
Order reference	31000-405-05		

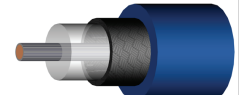
Flexiform 405 NM



Flexiform 405 NM FJ



Flexiform 405 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.	1500 max
Working voltage, DC	3000 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

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

**Environmental & Mechanical:**

Minimum bend radius (MBR) single bend (installation)	single bend: 6mm
Minimum bend radius (MBR) dynamic use	multiple bends: 25mm
Flame resistance	passes IEC 60332-3-24
Flammability	UL 94 V-0
Connectors	As semi-rigid M17/133-RG 405

\*Average power

Figures stated are for un-jacketed and FJ versions only

Average Power *	
MHz	W
400	253
1000	157
1800	116
2000	110
2400	100
3000	89
5000	69
10000	47
18000	33