

Page	Name	Impedance	Overall diameter (mm)	Overall diameter (in)
H.2	Multibend 401 FJ	50 Ohm	6,53	0,250"
H.3	Multibend 402 FJ	50 Ohm	3,58	0,141"
H.4	Multibend 405 FJ	50 Ohm	2,18	0,086"

## Multibend<sup>®</sup> 401 FJ Flexible Re-formable Coaxial

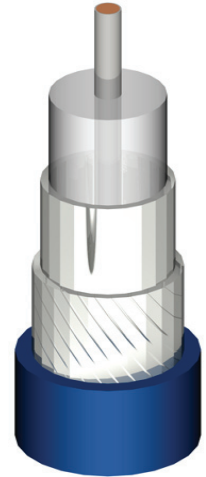
### Alternatives:

Alternative jacket colours and materials also available

### Construction:

Conductor  
Dielectric  
Tape  
Braid  
Jacket  
Weight  
Temperature rating (°C)  
Order reference

Silver plated copper (1x1,69) 1,69  
Solid PTFE 5,31  
Silver plated copper 5,75  
Silver plated copper 6,35  
FEP, Blue 7,20  
140 kg/km  
-65 / +165°C  
**32000-401-01**



### Notes:

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

### Electrical:

Impedance 50 ± 2 Ohms  
Capacitance 80 pF/m  
Velocity of signal propagation 83 %  
Signal delay 4 ns/m  
Working voltage, AC r.m.s. 3000 max  
Working voltage, DC 6000 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 -100 dB/m


Attenuation	
MHz	dB/100m
400	14
1000	23
1800	32
2000	34
2400	37
3000	43
5000	57
10000	95
18000	145

### Environmental & Mechanical:

Minimum bend radius (MBR) single bend (installation) single bend: 40mm  
Minimum bend radius (MBR) dynamic use multiple bends: 80mm  
Flame resistance passes IEC 60332-3-24  
Flammability passes UL 94 V-0  
Smoke generation passes IEC 61034-2  
Connectors As semi-rigid M17/129-RG401

Average Power	
MHz	W
400	1387
1000	827
1800	602
2000	569
2400	516
3000	459
5000	351
10000	229
18000	148

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.

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Approved by: 

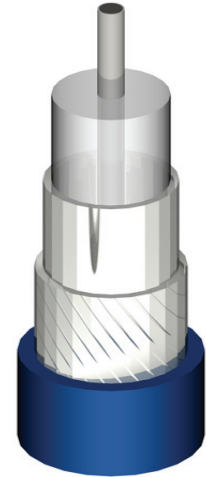
## Multibend<sup>®</sup> 402 FJ Flexible Re-formable Coaxial

### Alternatives:

Alternative jacket colours and materials also available

### Construction:

Conductor	Silver plated copper covered steel (1x0,92)	0,92
Dielectric	Solid PTFE	2,99
Tape	Silver plated copper	3,15
Braid	Silver plated copper	3,58
Jacket	FEP, Blue	4,14
Weight	40 kg/km	
Temperature rating (°C)	-65 / +165°C	
Order reference	<b>32000-402-01</b>	



### Notes:

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

### Electrical:

Impedance	50 $\pm$ 2 Ohms
Capacitance	96 pF/m
Velocity of signal propagation	70 %
Signal delay	4,8 ns/m
Working voltage, AC r.m.s.	1900 max
Working voltage, DC	3800 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 -100 dB/m


Attenuation	
MHz	dB/100m
400	26
1000	42
1800	57
2000	60
2400	66
3000	75
5000	100
10000	147
18000	210

### 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	passes UL 94 V-0
Smoke generation	passes IEC 61034-2
Connectors	As semi-rigid M17/130-RG402

Average Power	
MHz	W
400	515
1000	315
1800	230
2000	218
2400	199
3000	177
5000	136
10000	91
18000	62

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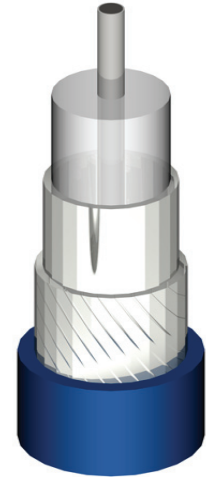
## Multibend<sup>®</sup> 405 FJ Flexible Re-formable Coaxial

### Alternatives:

Alternative jacket colours and materials also available

### Construction:

Conductor	Silver plated copper covered steel (1x0,51)	0,51
Dielectric	Solid PTFE	1,63
Tape	Silver plated copper	1,88
Braid	Silver plated copper	2,18
Jacket	FEP, Blue	2,64
Weight	21 kg/km	
Temperature rating (°C)	-65 / +165°C	
Order reference	<b>32000-405-01</b>	



### Notes:

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

### Electrical:

Impedance	50 ± 1,5 Ohms
Capacitance	96 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 -100 dB/m

Attenuation	
MHz	dB/100m
400	43
1000	68
1800	93
2000	98
2400	108
3000	120
5000	159
10000	245
18000	355

### 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	passes UL 94 V-0
Smoke generation	passes IEC 61034-2
Connectors	As semi-rigid M17/133-RG405

Average Power	
MHz	W
400	194
1000	120
1800	89
2000	84
2400	77
3000	68
5000	53
10000	36
18000	25

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Approved by: 