

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		

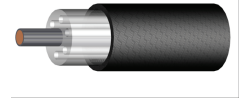
Flexiform 401 L FJ

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

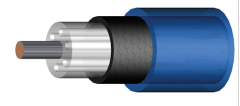
Flexiform 401 L HFJ

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

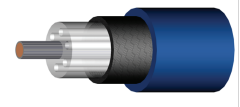
Flexiform 401 L



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