

Flexiform[®] 402 L

Re-formable low loss coaxial cable

Features & Benefits:

'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

Ref: CC-eFF402L-02
Date: 2006-08-14
Approved by:

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		
Operating temperature	-40 / +165°C		
Order reference:	31400-402-00		

Flexiform 402 L FJ

Jacket	FPI 205, Blue	0.161	4,10
Weight	46 kg/km		
Operating temperature	-40 / +165°C		
Order reference:	31400-402-01		

Flexiform 402 L HFJ

Jacket	HFI 100, Blue	0.181	4,60
Weight	49 kg/km		
Operating temperature	-40 / +100°C		
Order reference:	31400-402-02		

Flexiform 402 L:



Flexiform 402 L FJ:



Flexiform 402 L HFJ:



Electrical:

Impedance	50 ± 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

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*
*Connectors	Inner pin modified for the larger centre conductor required for lower attenuation

Attenuation:

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

Average Power:

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

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.