

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 | | |

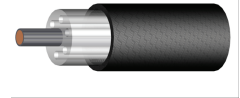
Flexiform 401 L FJ

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

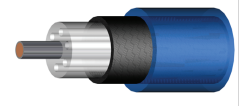
Flexiform 401 L HFJ

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

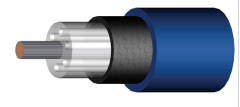
Flexiform 401 L



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:

'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 | |

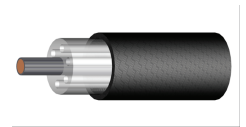
Flexiform 402 L FJ

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

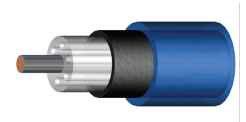
Flexiform 402 L HFJ

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

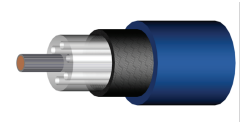
Flexiform 402 L



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 |