

## **PTFE HOSE APPLICATION GUIDE**

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**This hose guide has been designed to help you quickly cross reference the relative performance characteristics of the leading PTFE Goodridge hoses. Please note that there are many other types of hose available, but this guide has been limited to the PTFE variants.**

Suggested fitting options have been listed by each hose type. There is also an example of a suitable fitting for each hose, together with the internal bore of the fitting.

NB. THIS DOES NOT COVER ALL THE POSSIBILITIES AS WE CAN MANUFACTURE FITTINGS IN EVERY MATERIAL – ALUMINIUM, STAINLESS, TITANIUM, MILD STEEL – FOR ANY SIZE OF HOSE TO YOUR SPECIFICATIONS.

Each hose type has specific characteristics, in terms of weight, flexibility, flow, pressure and temperature rating. A Goodridge consultant is always available to help you to select the best hose for your specific application.

Suggested vehicle applications have been included by each hose. Please note that this does not cover all possible applications.

## DASH 2

- **600-02** Stainless steel woven braid construction over clear PTFE inner tube. This hose is extremely tough, lightweight and flexible. The microbore tube is particularly suitable for applications where fluid movement is small.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-02	45	6600 / 19800	12	2.00	5.00	-70 / +235

For use with stainless steel and titanium fittings – section 3 Goodridge catalogue

- Braking systems for single-seater or two-wheel applications
- Pressure sensor hoses
- Pneumatic systems
- Bleed hoses

**Example fitting S6001-02C  
Collar RC600-02CMP**

**Internal diameter 1.40mm**

- **600-02 (Coated - CLG/CB/RD/BU)** Stainless braided with PVC coating. For mountain bike applications, where it is used with a reusable olive-free fitting. Also can be used with crimped –2 fittings, as with standard 600-02.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-02*	58	6600 / 19800	12	2.00	5.30	-20 / +85

\* CLG, CB, RD, BU

- Brake systems (Mountain Bike)
- Braking systems for single-seater or two-wheel applications
- Pressure sensor hoses
- Pneumatic systems
- Bleed hoses

**Example fitting MTB5091-02-M6C  
Collar RC600-02MTB**

**Internal diameter 1.60mm**

- **700K-02** – Aramid fibre woven braid construction over clear PTFE inner tube. This is a lower pressure version of 600-02, which has significant weight saving advantages. Again, it is very suitable for applications where fluid movement is small, but not for brake systems.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
700K-02	30	2420 / 7250	12	2.00	5.40	-45 / +170

For use with stainless steel crimped fittings – section 3 Goodridge catalogue

- Pressure sensor hoses
- Pneumatic systems
- Bleed hoses

**Example fitting S6001-02C  
Collar RC600-02CMP**

**Internal diameter 1.40mm**

### DASH 3

- **600-03** is our original brake hose design. Extremely versatile, very flexible, and proven in every type of racing. Stainless steel woven outer braid, with a natural clear PTFE inner tube, it has extremely low expansion – less than 1% at 3,000 psi - providing a stiffer pedal feel.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-03	60	4250 / 12750	18	3.50	6.45	-70 / +235

Designed for use with stainless steel, mild steel, aluminium and titanium fittings, in both re-usable and crimped versions. Section 3 - Goodridge catalogue

- Braking systems
- Clutch systems
- Bleed hoses
- Pressure sensor hoses
- Pneumatic systems
- Fuel injection hoses

#### Example fitting S6001-03C

**Internal diameter 2.55mm**

- **600-03CB** is a PVC-coated version of 600-03, ideal for use in applications where the hose needs regular cleaning, or could scratch against other surfaces. Also available in a range of different colours.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-03CB	88	4250 / 12750	18	3.50	7.60	-20 / +85

Designed for use with stainless steel, mild steel, aluminium and titanium fittings, in both re-usable and crimped versions. Section 3 - Goodridge catalogue

- Braking systems
- Clutch systems
- Bleed hoses
- Pressure sensor hoses

#### Example fitting S6001-03C

**Internal diameter 2.55mm**

#### Collar RC600-03TUV, RC600-03CTUV

- **700K-03** – Black Aramid fibre woven braid construction over natural clear PTFE inner tube. This is a lower pressure version of 600-03, which offers significant weight advantages. It is less resistant to expansion than stainless braided hose, so is not ideal for brake systems, however it is perfectly suited for pressure sensors and bleed hoses.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
700K-03	44	2930 / 8800	18	3.50	6.70	-45 / +170

Designed for use with stainless steel, aluminium and titanium fittings - crimped versions only. Section 3 - Goodridge catalogue

- Bleed hoses
- Pressure sensor hoses
- Fuel injection hoses

#### Example fitting S6001-03C

**Internal diameter 2.55mm**

#### Collar RC600-03TUV, RC600-03CTUV

## HARDLINE

- **HL836-03C hardline** – seamless stainless steel tube, for use on brake and clutch systems. The tube can be bent to shape, to allow for tight packaging of lines inside the cockpit. An aircraft specification flaring tool is available to buy, which provides consistently flared seats (at 74 degrees)

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
HL836-03C	71	5000 / 15000	15	3.36	4.8	N/A

Designed for use with stainless steel tube fittings. Section 6 – Goodridge catalogue.

- Braking systems
- Clutch systems

**Internal diameter as tube                    3.36mm**

## 610 and 611 series

The 610 lightweight series is a recent Goodridge development, which provides the lightest stainless dash 3 hose available. Its exclusive design reduces hose size and weight, whilst maintaining high working pressure for use on brake systems. All types are designed for use with the unique range of Titanium bent-tube fittings, which have achieved low-profile bend radii previously only achievable with stainless steel fittings – with weights as low as 4g for a 90 degree fitting. There is also a 2.5mm ID version, 611-025, which provides a stiffer pedal feel and even greater weight savings, particularly for single-seater applications.

- **611-025** lightweight dash 2.5. Stainless steel braid over black Anti-static PTFE inner tube. Provides a dash 2 pedal feel, but compatible for use with the unique bent-tube titanium range of fittings.
- **610-03** lightweight dash 3 improves on standard 600-03 hose, with reduced outer diameter, smaller bend radius and weight reduction – all with no reduction in working pressure or temperature. Stainless steel outer braid with a clear natural PTFE inner tube.
- **611-03** lightweight dash 3 is identical in design to 610-03, but has an Anti-Static PTFE inner tube, to dissipate charge build-up in fast flowing systems. Stainless steel outer braid over black Anti-Static PTFE tube.
- **611PE-03** lightweight dash 3 is identical to 611-03, with an additional covering for protection. Black Anti-static PTFE inner tube, stainless steel braid, outer Polyester overbraid.
- **611K-03** lightweight dash 3 is constructed from black Anti-Static PTFE inner tube, with an Aramid braid to provide an exceptionally lightweight hose.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
611-025	34	4250 / 12750	12	2.50	4.20	-70 / +235
610-03	49	4250 / 12750	12	3.50	5.66	-70 / +235
611-03	49	4250 / 12750	12	3.50	5.66	-70 / +235
611PE-03	62	4250 / 12750	12	3.50	7.11	-70 / +235
611K-03	29	500 / 2000	25	3.50	6.30	-45 / +170

### 610 / 611 / 611PE

- Brake and clutch
- Gear shift hoses
- Bleed hoses
- Pressure sensor hoses
- Fuel injection hoses
- Pneumatic hoses

### 611K

- Bleed hoses
- Pressure sensor hoses
- Fuel injection hoses

**Example fitting XLS6001-03-03T  
Collar RC600LW-03XLS**

**Internal diameter 2.55mm**

#### DASH 4

- **600-04** – Stainless steel braid with black anti-static PTFE inner tube. Tough and flexible, it is ideally suited for clutch systems, and high pressure applications.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-04	75	4110 / 12350	25	5.00	7.65	-70 / +235

Designed for use with stainless steel, mild steel, and aluminium fittings – in both crimped and re-usable versions. Section 3 - Goodridge catalogue

- Clutch systems
- Bleed hoses
- Fuel injection hoses
- Suspension systems

**Example fitting S6001-04C**

**Internal diameter 3.49mm**

**Collars RC600-04C, RC600-04CHP**

- **700K-04** – Aramid woven braid with black anti-static PTFE inner tube and PVC covering. Lightweight and flexible.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
700K-04	74	2200 / 6600	25	5.00	9.60	-20 / +85

Designed for use with stainless steel and aluminium fittings – crimped versions only. Section 3 - Goodridge catalogue

- Bleed hoses
- Fuel injection hoses

**Example fitting S6001-04D**  
**Collar RC600-04C**

**Internal diameter 3.49mm**

- **710-04** – Aramid woven braid over fully-convoluted black anti-static PTFE inner tube. Providing excellent flexibility and lightweight performance. Fittings are over-sized compared to normal –4 fittings to offer improved flow.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
710-04	75	1025 / 4850	20	7.10	11.30	-30 / +235

Designed for use with draw-swaged aluminium fittings. Section 1 - Goodridge catalogue

- Water cooled brakes
- Brake reservoir feed hoses
- Wastegate hoses
- Breather pipes

**Example fitting 4001-04D**  
**Collar RC110-04D - swage**

**Internal diameter 3.96mm**

- **910-04** – Aramid woven braid over black anti-static PTFE inner tube. The unique design of the inner tube has a convoluted exterior with a smooth internal finish to provide excellent flow, whilst maintaining better flexibility than any other smooth bore hose available.

*Also available in Zylon braid, offering improved pressure ratings and strength for specialist applications – with no weight penalty.*

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
910-04	55	1320 / 5290	23.5	6.85	10.30	-30 / +235

Designed for use with crimped aluminium fittings. Section 1 - Goodridge catalogue

- Water cooled brakes
- Brake reservoir feed hoses
- Wastegate hoses
- Breather pipes

**Example fitting 4001-04D**  
**Collar RCC910-04D - crimp**

**Internal diameter 3.96mm**

## DASH 5

- **600-05CL/CB** – Stainless steel outer braid with a fully-smooth black anti-static PTFE inner tube. PVC coated. Ideal for suspension systems. A complete range of complementary fittings are available, to suit all shock and damper manufacturer's systems. These include fixed and swivel male fittings, and the unique Goodridge swivel banjo system, which allows 360 degree free rotation of the hose after installation.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-05CB	123	3970 / 11900	35	6.30	8.90	-20 / +85

Designed for use with crimped fittings. Section 3 - Goodridge catalogue

- Suspension and damper systems

**Example fitting S5092-05-M10CSW**  
**Collar RC600-05P, RC600-05CHP**

**Internal diameter 4.00mm**

## DASH 6

- **600-06** – Stainless steel outer braid with a fully-smooth black anti-static PTFE inner tube. Ideal for high-flow applications - fuel, oil, water.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-06	135	3380 / 10140	60	8.20	11.15	-70 / +260

Designed for use with re-usable and crimped aluminium fittings. Section 3 - Goodridge catalogue

- Fuel feed and return hoses
- Gearbox oil cooler hoses
- Turbo oil feed
- Scavenge hoses
- Airjack hoses

**Example fitting S6001-06D**  
**Collar RC600-06C**

**Internal diameter 6.00mm**

- **600-06HP** – A high pressure version of 600-06. Stainless steel outer braid, Aramid fibre inner braid, and a fully-smooth black anti-static PTFE inner tube. Ideal for high-pressure applications.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-06HP	164	4770 / 19080	70	8.50	12.30	-70 / +260

Designed for use with crimped aluminium and stainless steel fittings. Section 3 - Goodridge catalogue

- Power steering feed
- Damper hoses
- Airjack hoses

**Example fitting S6001-06CHP**  
**Collar RC600-06CHP**

**Internal diameter 6.00mm**

- **710-06** Aramid woven braid over fully-convoluted black anti-static PTFE inner tube. Providing excellent flexibility and lightweight performance. Fittings are over-sized compared to normal –6 fittings to offer improved flow.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
710-06	89	940 / 3760	25	9.50	14.40	-30 / +235

Designed for use with draw-swaged aluminium fittings. Section 1 - Goodridge catalogue

- Fuel feed and return hoses
- Gearbox oil cooler hoses
- Water systems
- Oil cooler systems
- Breather hoses
- Diff hoses

**Example fitting 4001-06D**  
**Collar RC110-06D**

**Internal diameter 6.84mm**

- **910-06** – Aramid woven braid over black anti-static PTFE inner tube. The unique design of the inner tube has a convoluted exterior with a smooth internal finish to provide excellent flow, whilst maintaining better flexibility than any other smooth bore hose available.

*Also available in Zylon braid, offering improved pressure ratings and strength for specialist applications – with no weight penalty.*

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
910-06	88	1180 / 4700	25	9.53	13.00	-30 / +235

Designed for use with crimped aluminium fittings. Section 1 - Goodridge catalogue

- Fuel feed and return hoses
- Gearbox oil cooler hoses
- Water systems
- Oil cooler systems
- Breather hoses
- Diff hoses

**Example fitting 4001-06D**  
**Collar RCC910-06D**

**Internal diameter 6.84mm**

## DASH 8

- **600-08** – Stainless steel outer braid with a fully-smooth PTFE inner tube. Ideal for high-flow, medium pressure applications.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-08	149	2790 / 8380	80	10.60	12.75	-70 / +260

Designed for use with re-usable and crimped aluminium fittings. Section 3 - Goodridge catalogue

- Fuel feed and return hoses
- Gearbox oil cooler hoses
- Turbo oil feed
- Scavenge hoses

**Example fitting S6001-08D  
Collar RC600-08C**

**Internal diameter 8.00mm**

- **600-08HP** – A high pressure version of 600-08. Stainless steel outer braid, Aramid fibre inner braid, and a fully-smooth PTFE inner tube. Ideal for high-pressure applications.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
600-08HP	193	3675 / 14680	90	10.60	14.80	-70 / +260

Designed for use with crimped aluminium and stainless steel fittings. Section 3 (pg. 50-51) - Goodridge catalogue

- Power steering feed
- Damper hoses

**Example fitting S6001-08CHP  
RC600-068CHP**

**Internal diameter 8.00mm**

- **710-08** Aramid woven braid over fully-convoluted black anti-static PTFE inner tube. Providing excellent flexibility and lightweight performance. Fittings are over-sized compared to normal –8 fittings to offer improved flow.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
710-08	134	850 / 3450	25	13.30	19.20	-30 / +235

Designed for use with draw-swaged aluminium fittings. Section 1 - Goodridge catalogue

- Fuel feed and return hoses
- Gearbox oil cooler hoses
- Water systems
- Oil cooler systems
- Breather hoses

**Example fitting 4001-08D  
Collar RC110-08D**

**Internal diameter 9.00mm**

- **910-08** – Aramid woven braid over black anti-static PTFE inner tube. The unique design of the inner tube has a convoluted exterior with a smooth internal finish to provide excellent flow, whilst maintaining better flexibility than any other smooth bore hose available.

*Also available in Zylon braid, offering improved pressure ratings and strength for specialist applications – with no weight penalty.*

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
910-08	141	1030 / 4120	38	12.70	16.50	-30 / +235

Designed for use with crimped aluminium fittings. Section 1 - Goodridge catalogue

- Fuel feed and return hoses
- Gearbox oil cooler hoses
- Water systems
- Oil cooler systems
- Breather hoses

**Example fitting 4001-08D**  
**Collar RCC910-08D**

**Internal diameter 9.00mm**

## DASH 10

- **710-10** Aramid woven braid over fully-convoluted black anti-static PTFE inner tube. Providing excellent flexibility and lightweight performance. Fittings are over-sized compared to normal -10 fittings to offer improved flow.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
710-10	164	735 / 2930	32	16.00	21.50	-30 / +235

Designed for use with draw-swaged aluminium fittings. Section 1 - Goodridge catalogue

- Engine oil cooler systems
- Water cooling systems
- Engine breathers
- Catch tank hoses
- Heat exchanger hoses
- Power steering reservoir

**Example fitting 4001-10D**  
**Collar RC110-10D**

**Internal diameter 12.07mm**

- **910-10** – Aramid woven braid over black anti-static PTFE inner tube. The unique design of the inner tube has a convoluted exterior with a smooth internal finish to provide excellent flow, whilst maintaining better flexibility than any other smooth bore hose available.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
910-10	201	955 / 3820	45	15.88	20.80	-30 / +235

Designed for use with crimped aluminium fittings. Section 1 - Goodridge catalogue

- Engine oil cooler systems
- Water cooling systems
- Engine breathers
- Catch tank hoses
- Heat exchanger hoses
- Power steering reservoir

**Example fitting 4001-10D**  
**Collar RCC910-10D**

**Internal diameter 12.07mm**

## DASH 12

- **710-12** Aramid woven braid over fully-convoluted black anti-static PTFE inner tube. Providing excellent flexibility and lightweight performance. Fittings are over-sized compared to normal –12 fittings to offer improved flow.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
710-12	193	510 / 2495	40	19.50	25.60	-30 / +235

Designed for use with draw-swaged aluminium fittings. Section 1 - Goodridge catalogue

- Engine oil cooler systems
- Water cooling systems
- Engine breathers
- Catch tank hoses
- Heat exchanger hoses
- Fuel filler hoses
- Scavenge hoses

**Example fitting 4001-12D**  
**Collar RC110-12D**

**Internal diameter 15.88mm**

- **910-12** – Aramid woven braid over black anti-static PTFE inner tube. The unique design of the inner tube has a convoluted exterior with a smooth internal finish to provide excellent flow, whilst maintaining better flexibility than any other smooth bore hose available in this size.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
910-12	292	880 / 3530	50	19.05	24.40	-30 / +235

Designed for use with crimped aluminium fittings. Section 1 - Goodridge catalogue

- Engine oil cooler systems
- Water cooling systems
- Engine breathers
- Catch tank hoses
- Heat exchanger hoses
- Fuel filler hoses
- Scavenge hoses

**Example fitting 4001-12D**  
**Collar RCC910-12D**

**Internal diameter 15.88mm**

## DASH 16

- **710-16** Aramid woven braid over fully-convoluted black anti-static PTFE inner tube. Providing excellent flexibility and lightweight performance. Fittings are over-sized compared to normal –16 fittings to offer improved flow.

Part number	Weight (g/m)	Pressure (psi) Working / Burst	Bend radius (mm)	Inner diameter (mm)	Outer diameter (mm)	Temperature rating (°C)
710-16	237	485 / 1950	50	25.40	33.90	-30 / +235

Designed for use with draw-swaged aluminium fittings. Section 1 - Goodridge catalogue

- Engine oil cooler systems
- Water cooling systems
- Fuel filler hoses

**Example fitting 4001-16D  
Collar RC110-16D**

**Internal diameter 20.45mm**

910-16 smoothbore is available but the advantages of a smooth bore hose tend to diminish at these larger sizes.

Beyond dash 16, 710-20 is also available for specialist requirements, where large oil or water flow is required.

## FLOW RATES (910 hose)

	Flow rate in cubic metres per hour – pressure drop 100 psi	Flow rate in cubic metres per hour - pressure drop 200 psi
<b>910-04</b>	<b>1.9</b>	<b>2.7</b>
<b>910-06</b>	<b>4.7</b>	<b>6.8</b>
<b>910-08</b>	<b>9.4</b>	<b>14.0</b>
<b>910-10</b>	<b>16.6</b>	<b>23.4</b>
<b>910-12</b>	<b>26.2</b>	<b>37.3</b>

## NOTES -

1. Medium is water
2. Hose is in straight configuration
3. Pressure drop is inlet pressure minus outlet pressure at exit
4. End fittings not included