C1T 1-Wire Braid Hose — SAE 100R1 Type AT

Recommended for: Medium pressure hydraulic lines. Meets or exceeds the requirements of SAE 100R1AT and performance requirements of DIN 20022 1SN.

**Tube:** Black, oil-resistant synthetic rubber. (Nitrile).

**Reinforcement:** One braid of high-tensile steel wire.

**Cover:** Black, oil- and abrasion-resistant synthetic rubber. (Modified Nitrile).

No skiving needed with “Type T”, Power Crimp® or MegaCrimp® couplings.

**Temperature range:** -40°F to +212°F (-40°C to +100°C).

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### SPECIFICATIONS

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Power Crimp and MegaCrimp are registered trademarks of The Gates Rubber Company.

---

C1TH High Temp 1-Wire Braid Hose — SAE 100R1 Type AT

Recommended for: Medium pressure hydraulic oil lines. Meets or exceeds requirements of SAE 100R1 Type AT.

**Tube:** Black, oil-resistant, synthetic rubber. (Nitrile).

**Reinforcement:** One braid of high tensile steel wire.

**Cover:** Black, oil- and abrasion-resistant synthetic rubber. (Hypalon®).

**Temperature range:** -40°F to +275°F (-40°C to +135°C) constant and 300°F (149°C) intermittent (up to 10% of operating time).

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Hypalon is a registered trademark of the DuPont Co.
C2AT 2-Wire Braid Hose — SAE 100R2 Type AT
(Meets Flame Resistance Acceptance Designation “U.S. MSHA 2G”)

Recommended for: High pressure hydraulic oil lines. Meets or exceeds the requirements of SAE 100R2AT and performance requirements of DIN 20022 2SN.

Tube: Black, oil-resistant synthetic rubber. (Nitrile).

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil- and abrasion-resistant thin synthetic rubber. No skiving required with “Type T” or Power Crimp® couplings. (Modified Nitrile).

Temperature range: -40°F to +212°F (-40°C to +100°C).

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Power Crimp is a registered trademark of The Gates Rubber Company.

C2ATH High-Temp 2-Wire Braid Hose — SAE 100R2 Type AT
(Meets Flame Resistance Acceptance Designation “U.S. MSHA 2G”)

Recommended for: High pressure hydraulic oil lines. Meets or exceeds the requirements of SAE 100R2AT.

Tube: Black, oil-resistant synthetic rubber. (Hypalon®).

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil-resistant synthetic rubber. (Hypalon®).

Temperature range: -40°F to +275°F (-40°C to +135°C) constant and 300°F (149°C) intermittent — up to 10% of operating time.

SPECIFICATIONS

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Hypalon is a registered trademark of the DuPont Co.
### △M3K Mega3000® Hose

(Meets Flame Resistance Acceptance Designation “U.S. MSHA 2G”)

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#### MegaTuff® HOSE SPECIFICATIONS

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M3K Mega3000 and MegaTuff are registered trademarks of The Gates Rubber Company.

### C7S and C7SNC Hydraulic Hose — SAE 100R7

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Recommended for: Petroleum, water base and synthetic hydraulic fluids. Applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery. Orange color C7SNC meets SAE 100R7 non-conductivity requirements. Both C7S and C7SNC hoses meet or exceed performance requirements of SAE 100R7 with significantly tighter bend radius.

#### Tube:
Black 100% seamless nylon that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

#### Reinforcement:
Single polyester braid.

#### Cover:
Black or orange urethane that resists hydraulic fluids, high temperatures, aging and weathering. Orange C7SNC is non-perforated for applications requiring electrical non-conductivity. Meets SAE 100R7 Electrical Conductivity Test. Maximum leakage shall not exceed 50 micro-amperes when subjected to 75kV/Ft. for five minutes. (Orange is industry accepted color for non-conductive hose.) Black C7S is perforated for use in general hydraulic and pneumatic service.

#### Temperature range:
-65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of 158°F (70°C) for water, water/oil emulsions and water glycol.
G4H MegaVac® Return Line and Suction Hose
(Meets Flame Resistance Acceptance Designation “U.S. MSHA 2G”)

Recommended for: Petroleum and water-base hydraulic fluids in suction lines or in low pressure return lines. **One-half the bend radius of SAE 100R4.**

**Tube:** Black, synthetic nitrile rubber is specifically designed for resistance to high temperatures.

**Reinforcement:** Double spiral reinforced with a helical spiral-wire to prevent collapse.

**Cover:** Black neoprene synthetic rubber is oil- and abrasion-resistant.

**Temperature range:** -40°F to +275°F (-40°C to +135°C) constant and 300°F (149°C) intermittent (up to 10% of operating time).

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G4H MegaVac is a registered trademark of The Gates Rubber Company.

C12M MegaSpiral® Hose — SAE 100R12
(Meets Flame Resistance Acceptance Designation “U.S. MSHA 2G”)

Recommended for: Very high pressure hydraulic applications. Provides excellent impulse life; all sizes surpass 1,000,000 impulse cycles when tested at 250°F (121°C) at one-half the minimum bend radius specified by SAE 100R12, and at 133% of rated working pressure. **Half the bend radius and more flexible than SAE 100R12.**

**Tube:** Black, oil-resistant, synthetic rubber. (Neoprene).

**Reinforcement:** Four layers of alternated, spiraled high tensile steel wire over a layer of fabric.

**Cover:** Black, oil-resistant, synthetic rubber. (Neoprene).

**Temperature range:** -40°F to +250°F (-40°C to +121°C). Available in 121’ to 200’ continuous lengths.

### SPECIFICATIONS

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C12M MegaSpira and MegaTuff are registered trademarks of The Gates Rubber Company.
C13 Spiral Wire Hose — SAE 100R13
(Meets Flame Resistance Acceptance Designation “U.S. MSHA 2G”)

Recommended for: Extremely high pressure hydraulic applications, and severe applications such as hydrostatic transmissions. C13 is designed to meet all requirements of SAE 100R13 specifications.

Tube: Black, oil-resistant synthetic rubber. (Neoprene).


Cover: Black, oil-resistant synthetic rubber. (Neoprene). Red stripe.

Temperature range: -40°F to +250°F (-40°C to +121°C).

Available in 121’ to 200’ continuous lengths.

### SPECIFICATIONS

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### MegaTuff® HOSE SPECIFICATIONS

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MegaTuff is a registered trademark of The Gates Rubber Company.
Gates Hydraulic Hose Features

EXTREMELY HIGH PRESSURE — G6K Hose

- Recommended for extremely high pressure and high impulse hydraulic applications. Designed for hydrostatic transmissions and other severe operating conditions.
- 6000 psi working pressure.
- Four or six layers of spiraled high tensile steel wire over a fabric layer.
- Available in 3/8”, 1/2”, 1” and 1 1/4” I.D.
- No internal tube skive required, reducing chance of system contamination.
- Highly visible layline for easy identification.
- Low profile ferrules make plumbing easy in tight areas.
- Variety of PCM coupling configurations make factory-quality assemblies easy.
- 1” and 1 1/4” I.D. available in 121’ to 200’ continuous lengths.
- Abrasion resistant MegaTuff® cover available on this hose.

EXTREMELY HIGH PRESSURE — G4K Hose, SAE 100R11

- Recommended for extremely high pressure and high impulse hydraulic applications.
- 4000 psi working pressure.
- Available only in 1 1/4” I.D.
- Exceeds SAE 100R11 in temperature rating and impulse life.
- Four layers of spiraled high tensile steel wire over a fabric layer.
- Variety of no-skive PCS coupling configurations make assembly fabrication easy.
- Available in 121’ to 200’ continuous lengths.
- Abrasion resistant MegaTuff® cover available on this hose.

EXTREMELY HIGH PRESSURE — G3K Hose, SAE 100R11

- Recommended for extremely high pressure and high impulse hydraulic applications.
- 3000 psi working pressure.
- Available in 1 1/2” and 2” I.D.
- Exceeds SAE 100R11 in temperature rating and impulse life.
- Four layers of spiraled high tensile steel wire over a fabric layer.
- Variety of no-skive PCS coupling configurations make assembly fabrication easy.
- Available in 121’ to 200’ continuous lengths.
- Abrasion resistant MegaTuff® cover available on this hose.

EXTREMELY HIGH PRESSURE — C13 Hose, SAE 100R13

- Recommended for extremely high pressure and high impulse hydraulic applications. Designed for hydrostatic transmissions and other severe operating conditions.
- 5000 psi working pressure.
- Meets or exceeds SAE 100R13.
- Four or six alternating layers of spiraled high tensile steel wire over fabric layer.
- Available in 5/8” through 2” I.D.
- No internal tube skive, reducing chance of system contamination.
- Highly visible layline for easy identification.
- Low profile ferrules make plumbing convenient in tight areas.
- Variety of PCM coupling configurations make factory-quality assemblies easy.
- All sizes available in 121’ to 200’ continuous lengths.
- Abrasion resistant MegaTuff® cover available on this hose.

See page 193.
Gates Hydraulic Hose Features — continued

**VERY HIGH PRESSURE — C12M MegaSpiral® Hose, SAE 100R12**

- Recommended for very high pressure hydraulic applications. Provides excellent impulse life, surpassing 1 million impulse cycles when tested under SAE 100R12 conditions.
- 3000 to 4000 psi working pressure.
- **Half the bend radius and more flexible than SAE 100R12.**
- Meets or exceeds SAE 100R12.
- Available in \( \frac{3}{8}, \frac{1}{2}, \frac{3}{4}, 1 \) and \( 1\frac{1}{4} \) I.D. sizes.
- Four alternating layers of spiraled high tensile steel wire over fabric layer.
- Highly visible layline printing for easy and permanent identification.
- Abrasion-resistant synthetic rubber cover.
- **No-skive ferrules** for PCS couplings make assembly fabrication easy.
- All sizes available in 121” to 200” continuous lengths.
- **Abrasion resistant MegaTuff® cover available on this hose.** See page 190.

**LOW PRESSURE — G4H MegaVac® Hose, SAE 100R4**

- Recommended for petroleum and water base hydraulic fluids in suction lines or in low pressure return lines.
- 56 to 250 psi working pressure.
- **One-half the bend radius of SAE 100R4.**
- Flexible and lightweight.
- Double spiral reinforced with helical spiral-wire to prevent collapse.
- Available in \( \frac{3}{4} \) through 4” I.D.
- Permanent PC and C4 style couplings make assemblies easy.

**LOW PRESSURE — C4 Hose, SAE 100R4**

- Recommended for petroleum and water base hydraulic fluids in suction lines or in low pressure return lines.
- 50 to 300 psi working pressure.
- Meets or exceeds SAE 100R4.
- Braided fiber reinforcement with spiral wire to prevent collapsing.
- Available in \( \frac{3}{4} \) through 3” I.D.
- Permanent C4 style couplings make assemblies easy.

**LOW PRESSURE — LOL PLUS Hose**

- Recommended for petroleum base hydraulic oils, water, hot lubricating oils, diesel fuels and air.
- 300 psi working pressure.
- One fiber braid reinforcement.
- Available in \( \frac{3}{8}, \frac{1}{2}, \frac{3}{4} \) I.D.
- Lock-on reusable couplings make assemblies easy.
- **NOTE:** LOL Plus Hose is available in seven colors: black, blue, green, red, yellow, gray and white.

**REFRIGERANT — PolarSeal™ Hose, SAE J 51**

- Recommended for transportation refrigeration and air conditioning systems that carry liquid and gaseous R134a and R12 refrigerants.
- 500 psi working pressure.
- Meets or exceeds SAE J51, Type A2 dimensions; SAE J51, Type D performance.
- Spiraled polyester reinforcement.
- Available in \( \frac{3}{16} \) through \( \frac{5}{16} \) I.D.
- Permanent ACA couplings make assemblies easy.

MegaSpiral, MegaTuff, MegaVac are registered trademarks and PolarSeal is a trademark of The Gates Rubber Company.

Ask for a Gates’ Hydraulic Hose, Fittings & Equipment Catalog for further information.
HYDRAULIC HOSE FITTINGS AND ADAPTERS

Gates Hydraulic Hose Features — continued

**MEDIUM PRESSURE — C5C Hose, SAE 100R5 and J 1402**

- Recommended for medium pressure hydraulic petroleum base oil lines in numerous applications. Meets or exceeds SAE 100R5, SAE J1402 Type A1I and DOT FMVSS 106-74 Type A1I.
- 350 to 3000 psi working pressure.
- One braid high tensile carbon steel wire over polyester braid.
- Textile braid cover.
- Available in ¾” through 2¾” I.D.
- C5 type field attachable and permanent (through -12 size) couplings available.

**MEDIUM PRESSURE — C5E Hose, SAE J 1019**

- Recommended for air brake hose, power steering, fuel filter, engine and transmission coolant lines and hot 300°F (149°C) lube lines.
- 300 to 1500 psi working pressure.
- Single braid of high tensile steel wire over polyester braid.
- Textile braid impregnated with rubber on black cover.
- Available in ¾” through 1¾” I.D.
- C5E type field attachable and permanent couplings available.

**HIGH PRESSURE — M2T® Megaflex® Hose, SAE 100R2**

- Recommended for high pressure hydraulic oil lines. One-half SAE 100R2 bend radius.
- 2000 to 5000 psi working pressure.
- Two braids of high tensile steel wire.
- Available in ¼” through 1” I.D.
- Superior flex impulse performance and lightweight.
- Easy to route and installs quickly in tight areas.
- No skiving required.
- Wide variety of Power Crimp® and MegaCrimp® Couplings available.
- **Abrasion resistant MegaTuff® cover available on this hose.**

**HIGH PRESSURE — C2AT Hose WITH DIN RATING, SAE 100R2**

- Recommended for high pressure hydraulic oil lines.
- Meets performance requirements of DIN 20022 2SN — 125 to 415 bar working pressure.
- Meets or exceeds SAE 100R2AT — 1825 to 6000 psi working pressure.
- Two braids of high tensile steel wire.
- Available in ¾” through 1¾” I.D.
- No skiving required.
- Power Crimp®, MegaCrimp® and field attachable couplings available.

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MegaCrimp, M2T, Megaflex, MegaTuff and Power Crimp are registered trademarks of The Gates Rubber Company.

Ask for a Gates’ Hydraulic Hose, Fittings & Equipment Catalog for further information.
Gates Hydraulic Hose Features — continued

**HIGH PRESSURE — C2ATH Hose, SAE 100R2AT**

- Recommended for high temperature, high pressure hydraulic oil lines.
- 1175 to 1625 psi working pressure.
- Meets or exceeds SAE 100R2AT.
- Two braids of high tensile steel wire.
- Available in 1⁄4", 1⁄2" and 2" I.D.
- No skiving required.
- Wide variety of Power Crimp® and field attachable couplings available.

**HIGH PRESSURE — J2AT Jack Hose, 10,000 psi**

- Recommended for hydraulic jack applications.
- 10,000 psi working pressure on static applications.
- Two braids of high tensile steel wire.
- Available in 1⁄4" and 3⁄8" I.D.
- No skiving required.
- Meets Material Handling Institute Specification IJ 100 for Jack Hose.
- Wide variety of Power Crimp® and MegaCrimp® Couplings available.
- **Abrasion resistant MegaTuff® cover available on this hose.**

**MEDIUM PRESSURE — C1T Hose WITH DIN RATING, SAE 100R1AT**

- Recommended for medium pressure hydraulic oil lines.
- Meets performance requirements of DIN 20022 1SN — 63 to 250 bar working pressure.
- Meets or exceeds SAE 100R1AT — 925 to 3625 psi working pressure.
- One braid of high tensile steel wire.
- Available in 3⁄16", 1⁄4", 5⁄32", and 3⁄8" I.D.
- No skiving required.
- Wide variety of Power Crimp®, MegaCrimp® and field attachable couplings available.

**MEDIUM PRESSURE — C1TH Hose, SAE 100R1AT**

- Recommended for medium pressure, high temperature hydraulic oil lines.
- 600 to 2750 psi working pressure.
- Meets or exceeds SAE 100R1AT.
- One braid of high tensile steel wire.
- Available in 1⁄4", 5⁄32", and 3⁄8" I.D.
- No skiving required.
- Wide variety of Power Crimp® Couplings makes assemblies easy.

**MEDIUM PRESSURE — PCI Power Clean Pressure Washer Hose**

- Recommended for use on hot and cold water high pressure cleaning equipment where heavy-duty service is required. Great for agricultural and mobile cleaning operations.
- 2500 to 3000 psi working pressure.
- One braid of high tensile steel wire reinforcement.
- Modified nitrile cover is specially compounded to handle pressure washer environment.
- Available in 1⁄4", 3⁄8", and 1⁄2" I.D.
- Wide variety of Power Crimp® and MegaCrimp® Couplings available.

Ask for a Gates’ Hydraulic Hose, Fittings & Equipment Catalog for further information.
Gates Hydraulic Hose Features — continued

**VERY HIGH PRESSURE — CPS Mine Hose**
- Recommended for high pressure hydraulic lines in longwall mining equipment and roof-support systems.
- 5000 psi dynamic working pressure and 6000 to 6700 psi static.
- Four to six layers of alternated, spiraled high tensile steel wire over a fabric layer.
- Available in ¾” through 2” I.D.
- Gates PCM Press-Lok™ Couplings and staple adapters make assemblies easy to install.
- All sizes available in 121’ to 200’ continuous lengths.
- *Abrasion resistant MegaTuff® cover available on this hose.*

**VERY HIGH PRESSURE — LW Mine Hose**
- Recommended for high pressure hydraulic lines in longwall mining equipment and roof-support systems.
- 4000 psi dynamic working pressure and 5000 psi static.
- Four layers of alternated, spiraled high tensile steel wire over a fabric layer.
- Available in ¾” and 1” I.D.
- Superior to SAE specifications.
- Gates PCS Press-Lok™ Couplings and staple adapters make assemblies easy to install.
- *Abrasion resistant MegaTuff® cover available on this hose.*

**HIGH PRESSURE — SHR Rotary Drill Hose**
- Recommended for mud drilling applications only.
- 3000 psi working pressure.
- Four alternating layers of spiraled high tensile steel wire over a fabric braid.
- Available in 2” I.D.
- Gates PCS Couplings makes assemblies easy.
- Available in 121’ to 200’ continuous lengths.

**HIGH PRESSURE — Power Plus® G2AT-HMP Hi-Temp Hose**
- Recommended for high pressure hydraulic applications where pressure or temperature requirements exceed SAE 100R2. Compatible with either petroleum base or fire-resistant phosphate ester fluids.
- 2500 to 4250 psi working pressure.
- Temperature range up to 300°F (149°C).
- Meets or exceeds SAE 100R2.
- Two braids of high tensile steel wire.
- Available in ¼” through 1” I.D.
- Wide variety of Power Crimp® Couplings makes assemblies easy.

*Ask for a Gates’ Hydraulic Hose, Fittings & Equipment Catalog for further information.*
Gates Hydraulic Hose Features — continued

HIGH PRESSURE — △M3K Mega3000® Hose, SAE 100R9

- Recommended for high pressure hydraulic oil lines. Can be bent twice as tight as SAE 100R1/100R2/100R9 bend radius standards.
- 3000 psi rated working pressures — all sizes.
- Available in ¼” through 1¼” I.D. Sizes.
- ¼”, ½”, ¾” and 1” I.D. sizes meet SAE 100R2 impulse performance and exceed SAE 100R1 performance ratings.
- ¾” and 1” I.D. sizes meet SAE 100R9 and exceed SAE 100R2 impulse performance ratings.
- 1¼” I.D. size meets SAE 100R12 at one-half bend radius.
- Easy to route and install quickly in tight areas and saves on space and hose.
- Lightweight construction.
- No skiving required.
- Wide variety of Power Crimp® and MegaCrimp® Couplings available. (PCS couplings for 1” and 1¼” I.D. sizes).
- Hose and ferrules are labeled with △M3K to simplify ferrule selection.
- Abrasion resistant MegaTuff® cover available on this hose. See page 191.

THERMOPLASTIC — C7S Hose (Black), SAE 100R7

- Recommended for petroleum, water emulsion and synthetic hydraulic fluids.
- Tight minimum bend radius and excellent kink resistance.
- 1000 to 3000 psi working pressure.
- Meets or exceeds SAE 100R7.
- Single polyester braid.
- Available in 1/8” through 1” I.D.
- Perforated urethane cover for hydraulic and pneumatic service.
- Nylon tube compatible with wide range of fluid types.
- Permanent PCTS swage style and MegaCrimp® couplings make assemblies easy.

THERMOPLASTIC — C7SNC Hose (Orange), SAE 100R7

- Recommended for petroleum, water emulsion and synthetic hydraulic fluids.
- 1000 to 3000 psi working pressure.
- Meets or exceeds SAE 100R7.
- Single polyester braid.
- Available in 1/8” through 1” I.D.
- Orange, non-perforated urethane cover meets SAE 100R7 Electrical Conductivity Test. Electrically non-conductive.
- Nylon tube compatible with wide range of fluid types.
- Tight minimum bend radius and excellent kink resistance.
- Permanent PCTS swage style and MegaCrimp® couplings make assemblies easy.

△M3K Mega3000, MegaCrimp, MegaTuff and Power Crimp are registered trademarks of The Gates Rubber Company.

Ask for a Gates’ Hydraulic Hose, Fittings & Equipment Catalog for further information.
**THERMOPLASTIC — C7SDL Hose (Black Dual Line), SAE 100R7**

- Recommended for petroleum, water emulsion and synthetic hydraulic fluids.
- 2000 to 2750 psi working pressure.
- Meets or exceeds SAE 100R7.
- Single polyester braid.
- Available in 1/4” through 1/2” I.D.
- Perforated urethane cover for hydraulic and pneumatic service.
- Excellent kink resistance.
- Nylon tube compatible with wide range of fluid types.
- Permanent PCTS swage style and MegaCrimp® couplings make assemblies easy.

**THERMOPLASTIC — C7SNCDL Hose (Orange Dual Line), SAE 100R7**

- Recommended for petroleum, water emulsion and synthetic hydraulic fluids.
- Orange, non-perforated urethane cover meets SAE 100R7 Electrical Conductivity Test.
- 2000 to 2750 psi working pressure.
- Meets or exceeds SAE 100R7.
- Single polyester braid.
- Available in 1/4”, 3/8” and 1/2” I.D.
- Nylon tube compatible with wide range of fluid types.
- Permanent PCTS swage style and MegaCrimp® couplings make assemblies easy.

**THERMOPLASTIC — C8S Hose (Black), SAE 100R8**

- Recommended for petroleum, water emulsion and synthetic hydraulic fluids.
- 2250 to 5000 psi working pressure.
- Meets or exceeds SAE 100R8.
- Single aramid braid.
- Available in 3/16” through 3/4” I.D.
- Perforated urethane cover for general hydraulic and pneumatic service.
- Excellent kink resistance.
- Nylon tube compatible with wide range of fluid types.
- Extra tight minimum bend radius.
- Permanent PCTS swage style couplings make assemblies easy.

**THERMOPLASTIC — C8SNC Hose (Orange), SAE 100R8**

- Recommended for petroleum, water emulsion and synthetic hydraulic fluids.
- 3500 to 5000 psi working pressure.
- Meets or exceeds SAE 100R8.
- Single aramid fiber braid.
- Orange non-perforated cover meets SAE 100R8 Electrical Conductive Test requirement. Electrically non-conductive.
- Available in 1/4”, 3/8” and 1/2” I.D.
- Excellent kink resistance.
- Nylon tube compatible with wide range of fluid types.
- Extra tight minimum bend radius.
- Permanent PCTS swage style couplings make assemblies easy.

*NOTE:* For C8S and C8SNC dual line hoses, contact Summers Rubber Company.

MegaCrimp is a registered trademark of The Gates Rubber Company.

Ask for a Gates’ Hydraulic Hose, Fittings & Equipment Catalog for further information.
How to Order Gates Hydraulic Hose Assemblies

When you order hydraulic assemblies, be sure the following information is included as shown in illustrations below:
1. Quantity of assemblies required.
2. Hose Catalog Description (dash size and type).
3. First coupling dash size and end style.
4. Second coupling dash size and end style.
5. Offset angle or orientation of couplings must be specified if both couplings contain bent tube ends.
6. Overall assembly length (L).

Caution:
Rated working pressure of the application should always determine selection of hose. Used up to the recommended rated working pressure, the hose will provide normal service life before replacement is required.

When new, the hose described in this catalog will meet or exceed the minimum burst pressure listed in the hose specification tables. However — as with any hose in the industry — after the hose has been impulsed for a length of time, minimum burst pressure will decrease from the figure shown in the specification tables.

Temperature ranges specified for specific hoses refer to recommended temperature limits of fluids being conveyed or ambient temperatures. Exceeding these limits will cause degradation of material compounds and reduce hose service life.

Example:

<table>
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<tr>
<th>Hose Description (Selection Guide – Page 184)</th>
<th>Coupling End Style</th>
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<tr>
<td>Hose Dash Size</td>
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<tr>
<td>50 Assemblies</td>
<td>12C2AT</td>
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<tr>
<td>12FL90</td>
<td>12FL45</td>
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<tr>
<td>225° 36°</td>
<td></td>
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Measure from centerline of flanged head to centerline of flanged head for length of assembly.
Offset angle is measured with far coupling vertically downward. Orientation angle is measured clockwise.

How to Make Hose Assemblies of Specific Lengths

Select the hose and couplings required to make the desired hydraulic assembly. Note the “cut-off” measurement “C” for each of the couplings as listed in the specifications tables. A section is reproduced here:

Assembly Overall Length

Hose Length = Assembly Overall Length Minus (C₁ + C₂)

Cut-off value C is the length of that part of the coupling not directly in contact with or applied to the hose. Therefore, subtract the sum of the two C values from the total length of the assembly and you will have the approximate hose length to be replaced.

Length Tolerances for Hydraulic Hose Assemblies and Specified Hose Lengths*

<table>
<thead>
<tr>
<th>Length</th>
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<td>For lengths from 0 up to and including 12”</td>
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<tr>
<td>For lengths above 12” up to and including 18”</td>
<td>± ¾”</td>
</tr>
<tr>
<td>For lengths above 18” up to and including 36”</td>
<td>± ¼”</td>
</tr>
<tr>
<td>For lengths above 36”</td>
<td>±1% of length measured to the nearest ¼”.</td>
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</table>

*Reprinted from National Hose Assemblies Manufacturers Association NHAM-STD-2