


CM2T

ISO 11237 2SC R16



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.55	14.1	5800	40.0	23200	160.0	50	31	CM2T04
-5	8	5/16	0.61	15.5	5000	35.0	20000	140.0	55	35	CM2T05
-6	10	3/8	0.70	17.7	4800	33.0	19200	132.0	65	42	CM2T06
-8	12	1/2	0.82	20.8	4000	27.5	16000	110.0	90	51	CM2T08
-10	16	5/8	0.97	24.6	3625	25.0	14500	100.0	100	70	CM2T10
-12	19	3/4	1.09	27.8	3100	21.5	12400	86.0	120	81	CM2T12
-16	25	1	1.41	35.8	2400	16.5	9600	66.0	150	115	CM2T16

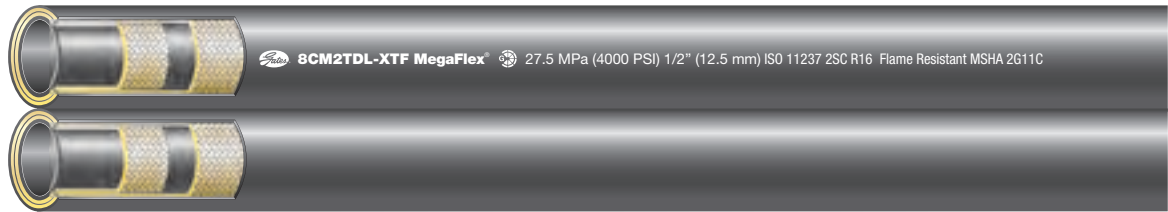
RECOMMENDED FOR TUBE High pressure hydraulic applications. Easy to route and to install in tight areas.
REINFORCEMENT NBR (Nitrile) based.
COVER Two braids of high tensile steel wire.
TEMPERATURE RANGE SBR based.
 -40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.
STANDARDS EN 857 2SC. ISO 11237 2SC R16. SAE 100R16.
COUPLINGS MegaCrimp®.
TYPE APPROVALS DNV, GL, LR and BV.
CHARACTERISTICS/BENEFITS 70% of EN 857 2SC.
 Superior flex impulse performance.
 Lightweight.
 CM2T hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL  CM2T-MTF: the complete range of CM2T is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard CM2T cover as per ISO 6945, superior ozone and weathering resistance. CM2T-MTF is also suitable for in-oil (submersible) applications.

IMPORTANT  Please consult Gates Product Application Engineers for use of MegaTuff™ hose in reverse bending applications or for constant bending at minimum bend radius.

CM2TDL-XTF

ISO 11237 2SC R16



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.55	14.1	5800	40.0	23200	160.0	50	58	4CM2TDL-XTF
-6	10	3/8	0.70	17.7	4800	33.0	19200	132.0	65	86	6CM2TDL-XTF
-8	12	1/2	0.82	20.8	4000	27.5	16000	110.0	90	104	8CM2TDL-XTF

RECOMMENDED FOR	High pressure and return lines such as boom arm and forklift applications.
TUBE	NBR (Nitrile) based.
REINFORCEMENT	Two braids of high tensile steel wire.
COVER	XtraTuff™. MSHA approved.
TEMPERATURE RANGE	-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.
STANDARDS	EN 857 2SC. ISO 11237 2SC R16. SAE 100R16.
COUPLINGS	MegaCrimp®.
CHARACTERISTICS/BENEFITS	70% of EN 857 2SC. Superior flex impulse performance. Lightweight. No need to use clamps as the two lines are vulcanised together to form one single unit. CM2T - Twin hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids. Gates special XtraTuff™ cover which offers 25 times the abrasion resistance of the standard CM2T cover as per ISO 6945.

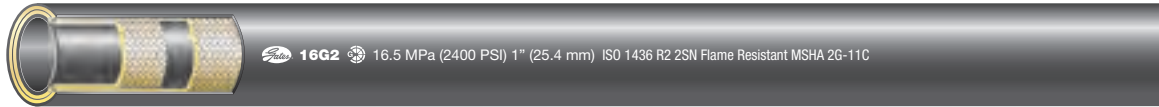
IMPORTANT



Gates recommends minimum split length of 250 mm depending on the application. Do not expose hose reinforcement when splitting hoses.

G2

ISO 1436 2SN R2



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.58	15.0	5800	40.0	23200	160.0	50	35	4G2
-5	8	5/16	0.64	16.3	5100	35.0	20300	140.0	55	39	5G2
-6	10	3/8	0.73	18.8	4800	33.0	19200	132.0	65	51	6G2
-8	12	1/2	0.86	21.8	4000	27.5	16000	112.0	90	61	8G2
-10	16	5/8	0.98	25.1	3625	25.0	14500	100.0	100	73	10G2
-12	19	3/4	1.14	29.0	3100	21.5	12400	86.0	120	91	12G2
-16	25	1	1.48	37.6	2400	16.5	9600	66.0	150	129	16G2
-20	31	1.1/4	1.87	47.5	1825	12.5	7300	50.0	210	209	20G2
-24	38	1.1/2	2.15	54.6	1300	9.0	5200	36.0	250	248	24G2
-32	51	2	2.65	67.3	1175	8.0	4700	32.0	315	315	32G2

RECOMMENDED FOR

High pressure hydraulic applications.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

EN 853 2SN. SAE 100R2. ISO 1436 2SN R2.

COUPLINGS

-4 to -20: MegaCrimp®; -24, -32: GlobalSpiral™ Plus.

TYPE APPROVALS

DNV, GL, LR, BV and MOD.

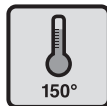
CHARACTERISTICS/BENEFITS

50% of SAE 100R2 bend radius at rated working pressure.

Superior flex impulse performance: tested to 600,000 impulse cycles.

G2 hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL



G2XH: for high-temperature applications, Gates recommends the G2XH range up to 150°C constant. Please refer to page 49.



G2L: for low-temperature applications, Gates recommends the G2L range up to -57°C constant. Please refer to page 51.

G1

ISO 1436 1SN R1



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.53	13.5	3275	22.5	13100	90.0	50	22	4G1
-5	8	5/16	0.59	15.1	3125	21.5	12500	86.0	55	26	5G1
-6	10	3/8	0.69	17.1	2600	18.0	10400	72.0	65	32	6G1
-8	12	1/2	0.82	20.3	2325	16.0	9300	64.0	90	39	8G1
-10	16	5/8	0.94	23.5	1900	13.0	7600	52.0	100	46	10G1
-12	19	3/4	1.10	27.6	1525	10.5	6100	42.0	120	59	12G1
-16	25	1	1.41	35.4	1275	9.0	5100	36.0	150	84	16G1
-20	31	1.1/4	1.71	43.4	925	6.4	3700	25.6	210	128	20G1
-24	38	1.1/2	1.96	49.8	725	5.0	2900	20.0	250	145	24G1
-32	51	2	2.52	64.0	600	4.2	2400	16.8	315	205	32G1

RECOMMENDED FOR

Medium pressure hydraulic applications.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

One braid of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

EN 853 1SN. SAE 100R1. ISO 1436 1SN R1.

COUPLINGS

-4 to -20: MegaCrimp®; -24, -32: GlobalSpiral™ Plus.

TYPE APPROVALS

DNV, GL, LR, BV and MOD.

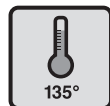
CHARACTERISTICS/BENEFITS

50% of SAE 100R1 bend radius at rated working pressure.

Superior flex impulse performance: tested to 600,000 impulse cycles.

G1 hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

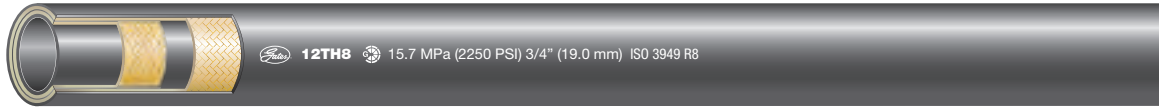
OPTIONAL



G1H: for high-temperature applications, Gates recommends the G1H range up to 135°C constant. Please refer to page 52.

TH8

ISO 3949 R8



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-4	6	1/4	0.61	15.5	5000	35.0	20000	140.0	50	18	4TH8	
-6	10	3/8	0.76	19.1	4000	28.0	16000	112.0	65	31	6TH8	
-8	12	1/2	0.87	22.1	3500	24.5	14000	98.0	100	34	8TH8	
-12	19	3/4	1.13	28.7	2250	15.7	9000	63.0	165	38	12TH8	
-16	25	1	1.45	36.8	2000	14.0	8000	56.0	250	57	16TH8	

RECOMMENDED FOR

High pressure hydraulic applications, especially material handling equipment with mast and pulley systems like forklifts, aerial lifting, hydraulic boom cranes and many others.

TUBE

PA (Nylon) based.

REINFORCEMENT

Two fibre braids.

COVER

PU (Polyurethane) based. Black TH8 is perforated for use in general hydraulic and pneumatic service.

TEMPERATURE RANGE

-53°C to +93°C. Maximum of +70°C for water, water/oil emulsions and water glycol.

STANDARDS

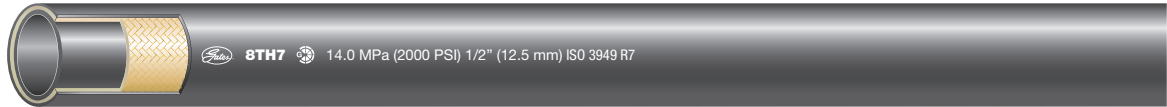
SAE 100R8. ISO 3949 R8. EN 855 R8.

COUPLINGS

MegaCrimp®.

TH7

ISO 3949 R7



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.50	12.7	2750	19.2	11000	76.8	30	8	4TH7
-5	8	5/16	0.56	14.7	2500	17.5	10000	70.0	45	10	5TH7
-6	10	3/8	0.64	16.4	2250	15.7	9000	62.8	50	14	6TH7
-8	12	1/2	0.80	20.3	2000	14.0	8000	56.0	75	21	8TH7
-12	19	3/4	1.05	26.6	1250	8.7	5000	34.8	130	29	12TH7
-16	25	1	1.32	33.4	1000	7.0	4000	28.0	250	40	16TH7

RECOMMENDED FOR

High pressure hydraulic applications, especially material handling equipment with mast and pulley systems like forklifts, aerial lifting, hydraulic boom cranes and many others.

TUBE

PA (Nylon) based.

REINFORCEMENT

-4 to -6: spiralled synthetic fibre; -8 to -16: one fibre braid.

COVER

PU (Polyurethane) based. Black TH7 is perforated for use in general hydraulic and pneumatic service.

TEMPERATURE RANGE

-53°C to +93°C. Maximum of +70°C for water, water/oil emulsions and water glycol.

STANDARDS

SAE 100R7. ISO 3949 R7. EN 855 R7.

COUPLINGS

MegaCrimp®.

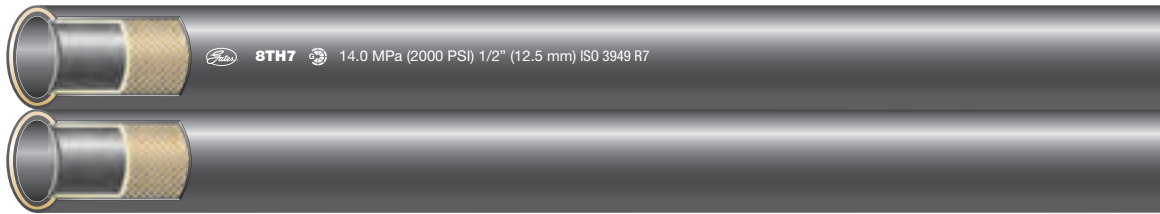
OPTIONAL



TH7NC: the complete range (-4 up to -16) is also available in a non-conductive version. This non-conductive hose has an orange polyurethane cover and is non-perforated for applications requiring electrical non-conductivity. TH7NC meets the SAE 100R7 Electrical Conductivity Test.

TH7DL

ISO 3949 R7



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-4	6	1/4	0.50	12.7	2750	19.2	11000	76.8	30	17	4TH7DL	
-5	8	5/16	0.56	14.7	2500	17.5	10000	70.0	45	21	5TH7DL	
-6	10	3/8	0.64	16.4	2250	15.7	9000	62.8	50	28	6TH7DL	
-8	12	1/2	0.80	20.3	2000	14.0	8000	56.0	75	42	8TH7DL	

RECOMMENDED FOR

High pressure hydraulic applications, especially material handling equipment with mast and pulley systems like forklifts, aerial lifting, hydraulic boom cranes and many others.

TUBE

PA (Nylon) based.

REINFORCEMENT

Spiralled synthetic fibre.

COVER

PU (Polyurethane) based. Black TH7 is perforated for use in general hydraulic and pneumatic service.

TEMPERATURE RANGE

-53°C to +93°C. Maximum of +70°C for water, water/oil emulsions and water glycol.

STANDARDS

SAE 100R7. ISO 3949 R7. EN 855 R7.

COUPLINGS

MegaCrimp®.

G3H

ISO 4079 R3



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	mm/Hg	kg/100m	REF.
-4	6	1/4	0.56	14.2	1250	8.8	5000	35.0	75	710	19	4G3H
-6	10	3/8	0.75	19.1	1125	7.9	4500	31.5	100	710	33	6G3H
-8	12	1/2	0.94	23.9	1000	7.0	4000	28.0	125	710	48	8G3H
-12	19	3/4	1.25	31.8	750	5.2	3000	21.0	150	710	71	12G3H
-16	25	1	1.50	38.1	565	3.9	2260	15.8	200	510	92	16G3H
-20	31	1.1/4	1.75	44.5	375	2.6	1500	10.5	250	380	110	20G3H

RECOMMENDED FOR

High temperature, low pressure hydraulic oil lines, anti-freeze solutions and water.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two fibre braids.

COVER

CR (Chloroprene) based.

TEMPERATURE RANGE

-40°C to +135°C constant and +150°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

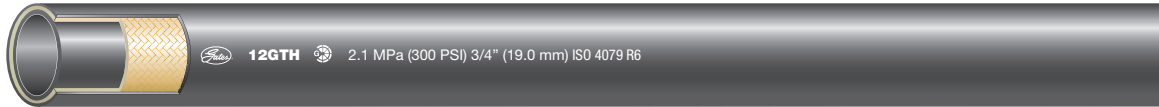
EN 854 R3. SAE 100R3. ISO 4079 R3 - high temperature.

COUPLINGS

-4 to -10: MegaCrimp®; for replacement of crimped assemblies with larger inner diameter we recommend to use ACR MegaTech™, see page 61.

GTH

ISO 4079 R6



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	mm/Hg	kg/100m	REF.
-4	6	1/4	0.50	12.7	400	2.8	1600	11.2	65	710	13	4GTH
-5	8	5/16	0.56	14.3	400	2.8	1600	11.2	75	710	15	5GTH
-6	10	3/8	0.63	15.9	400	2.8	1600	11.2	75	710	17	6GTH
-8	12	1/2	0.78	19.8	400	2.8	1600	11.2	100	450	23	8GTH
-10	16	5/8	0.91	23.0	350	2.4	1400	9.6	125	380	28	10GTH
-12	19	3/4	1.06	26.9	300	2.1	1200	8.4	150	380	38	12GTH
-16	25	1	1.32	33.5	250	1.7	1000	6.9	165	250	47	16GTH

RECOMMENDED FOR

High temperature, low pressure hydraulic oil lines, heavy-duty transmission oil cooler lines and glycol anti-freeze solutions.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

One fibre braid.

COVER

CR (Chloroprene) based.

TEMPERATURE RANGE

-40°C to +135°C constant and +150°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

EN 854 R6. SAE 100R6. ISO 4079 R6 - high temperature.

COUPLINGS

MegaCrimp®.

GMV MEGAVAC™

SAE 100R4



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-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	mm/Hg	kg/100m	REF.	
-12	19	3/4	1.22	30.9	350	2.4	1400	9.6	65	635	62	12GMV	
-16	25	1	1.45	36.9	300	2.1	1200	8.4	75	635	75	16GMV	
-20	31	1.1/4	1.75	44.6	250	1.7	1000	6.8	100	635	92	20GMV	
-24	38	1.1/2	2.01	51.1	162	1.1	648	4.4	130	635	106	24GMV	
-32	51	2	2.51	63.8	112	0.8	448	3.2	150	635	170	32GMV	
-40	63	2.1/2	3.02	76.7	68	0.5	272	2.0	180	635	207	40GMV	
-48	76	3	3.51	89.2	62	0.4	248	1.7	230	635	243	48GMV	
-56	89	3.1/2	4.01	101.9	56	0.4	224	1.5	250	635	268	56GMV	
-64	102	4	4.51	114.6	56	0.4	224	1.5	300	635	305	64GMV	

RECOMMENDED FOR

Petroleum and water based hydraulic fluids in suction lines or in low pressure return lines.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

-12, -16, -20: fibre braid reinforced with helical spiral wire to prevent collapse; -24 to -64: spiralled fibre reinforced with helical spiral wire to prevent collapse.

COVER

CR (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE

-40°C to +135°C constant and +150°C intermittent. For water emulsions, etc. see page 86.

STANDARDS

SAE 100R4.

COUPLINGS

-12 to -20: MegaCrimp®; -24, -32: GlobalSpiral™ Plus.

CHARACTERISTICS/BENEFITS

Half the bend radius of SAE 100R4.

Flexible and lightweight.

DIN 5510-2 approved for railway applications.