SubConn[®] Micro Circular Double O-ring 2, 3, 4, 5, 6 and 8 contacts and G2 2, 3 and 4 contacts

Connector specifications

Voltage rating

2, 3 and 4 contacts current rating 5, 6 and 8 contacts current rating

G2 2, 3 and 4 contacts connector current rating

Insulation resistance Contact resistance Wet matings

Temperature rating (water)
Temperature rating (air)
Storage temperature rating
Qualified pressure tested
Depth rating PEEK

300 V DC/AC rms

10 A per contact (max 20 A per connector) 5 A per contact (max 20 A per connector) 5 A per contact (max 20 A per connector)

> 200 Mohm < 0.01 ohm

500

> 500

- 4 to 60°C, 25 to 140°F - 40 to 60°C, - 40 to 140°F - 40 to 60°C, - 40 to 140°F 800 bar, 11.600 psi

300 bar, 4,350 psi

Material specifications

Connector body

Bulkhead body with 20 mm hex flats Bulkhead body with 22 mm hex flats

Bulkhead RA body

2, 3 and 4 contacts 5, 6, 8 contacts and G2 2, 3 and 4 contacts

Location pin
O-rings
Locking sleeves
Snap rings

2, 3 and 4 contact bulkhead leads (30 cm, 1 ft) 5, 6 and 8 contact bulkhead leads (30 cm, 1 ft) G2 2, 3 and contact 4 bulkhead leads (30 cm, 1 ft) Chloroprene rubber

Brass, titanium or anodised aluminium Anodised aluminium or stainless steel

Aluminium or titanium

Gold plated brass UNS - C36000

Female sockets in gold plated brass UNS C36000

Male pins in gold plated beryllium copper

Stainless steel AISI 303

Nitrile

ABS or stainless steel Stainless steel AISI 302

20 AWG $0.52~\text{mm}^2$ coloured PTFE 22 AWG $0.33~\text{mm}^2$ coloured PTFE 20 AWG $0.52~\text{mm}^2$ coloured PTFE

Face view (male)









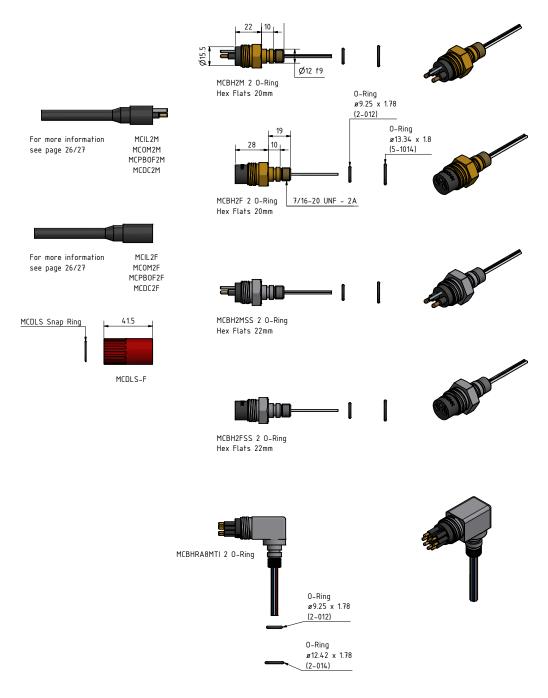












Drawing information

SubConn[®] Circular 2, 3, 4 and 5 contacts

Connector specifications

Voltage rating

2 contacts current rating

3, 4 and 5 contacts current rating

Insulation resistance Contact resistance Wet matings

Temperature rating (water)
Temperature rating (air)
Storage temperature rating
Design depth rating
Qualified pressure tested
Depth rating PEEK

600 V DC/AC rms

10 A per contact (max 20 A per connector) 10 A per contact (max 30 A per connector)

> 200 Mohm < 0.01 ohm > 500

- 4 to 60°C, 25 to 140°F - 40 to 60°C, - 40 to 140°F - 40 to 60°C, - 40 to 140°F 1,400 bar, 20,000 psi

800 bar, 11,600 psi 300 bar, 4,350 psi

Material specifications

Connector body Bulkhead body Contacts Location pin O-rings

Locking sleeves
Snap rings

2, 3 and 4 conductor inline cable (60 cm, 2 ft) 5 conductor inline cable (60 cm, 2 ft) Bulkhead leads (30 cm, 1 ft)

Chloroprene rubber

Brass, stainless steel, titanium, anodised aluminium or PEEK

Gold plated brass UNS - C36000

Stainless steel AISI 303

Nitrile

POM or stainless steel Stainless steel AISI 302

16 AWG 1.31 mm² chloroprene rubber 18 AWG 0.82 mm² chloroprene rubber 18 AWG 0.82 mm² coloured PTFE

Face view (male)









Inline cable colour code

1 Black 4 Green 2 White 5 Orange

3 Red

(3 conductor cable colour code: 1 black, 2 white, 3 green)

Nominal cable outside diameter (OD)

2 conductor cable 0.365", 9.3 mm

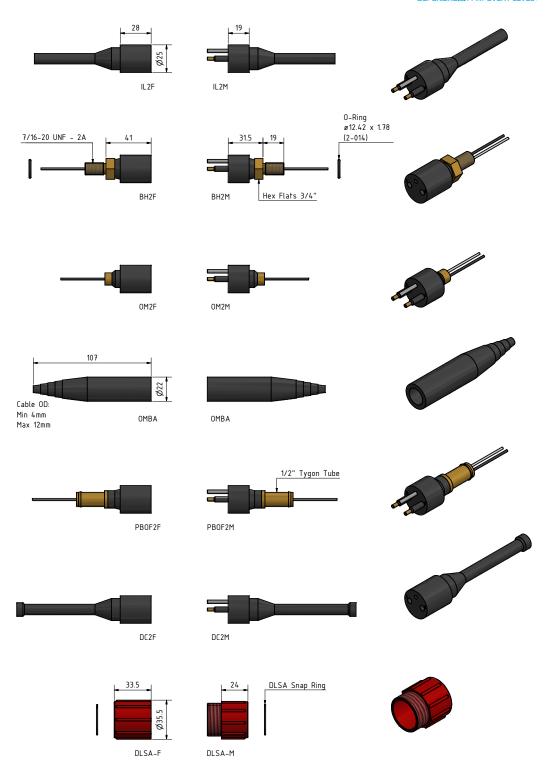
3 conductor cable 0.385", 9.8 mm

4 conductor cable 0.410", 10.4 mm

5 conductor cable 0.465", 11.8 mm

12 3rd edition www.macartney.com





Drawing information

Dimensions in mm (1 mm = 0.03937 inch) Threads in inches (1 inch = 25.4 mm)

SubConn® Low Profile 3 and 4 contacts

Connector specifications

Single contact rating 3 contacts current rating 4 contacts current rating Insulation resistance Contact resistance

Wet matings

Temperature rating (water) Temperature rating (air) Storage temperature rating Qualified pressure tested Depth rating PEEK 600 V DC/AC rms

10 A per contact (max 30 A per connector) 10 A per contact (max 40 A per connector)

> 200 Mohm < 0.01 ohm > 500

- 4 to 60°C, 25 to 140°F - 40 to 60°C, - 40 to 140°F - 40 to 60°C, - 40 to 140°F 800 bar, 11,600 psi 300 bar, 4,350 psi

Material specifications

Connector body
Bulkhead body
Contacts
O-rings
Locking strap
Inline cable (60 cm, 2 ft)
Bulkhead leads (30 cm, 1 ft)

Chloroprene rubber

Brass, stainless steel, titanium, anodised aluminium or PEEK

Gold plated brass UNS - C36000

Nitrile

Chloroprene rubber

16 AWG 1.31 mm² chloroprene rubber 18 AWG 0.82 mm² white tagged PTFE

Face view (male)





Inline cable colour code

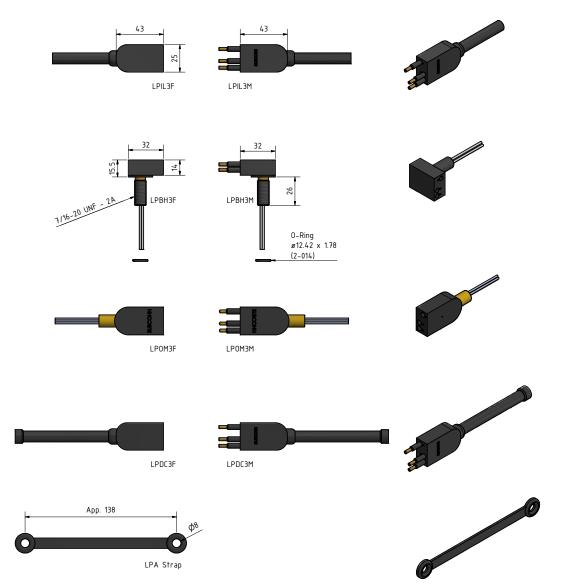
1 Black 2 White 3 Red 4 Green (3 conductor cable colour code: 1 black, 2 white, 3 green)

Nominal cable outside diameter (OD)

3 conductor cable 0.385", 9.8 mm 4 conductor cable 0.410", 10.4 mm

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Drawing information



Tygon® F-4040-A Fuel & Lubricant Tubing

tubing for a variety of applications. Its minimum extractability safeguards the liquid or vapor being performer lot after lot, Tygon® Fuel and Lubricant Tubing is the most requested fuel and Iubricant gasoline, kerosene, heating oils, cutting compounds, and glycol-based coolants. A consistent Specifically designed to handle most fuels and industrial lubricants, it is routinely used with transferred against adulteration.

- Resists embrittlement, hardening & swelling
- Translucent yellow for positive identification
 - Allows easy flow monitoring
- UV & ozone resistant
- Reduces the risk of failure due to cracking & leakage
- Easy to install, even in tight places
- Durometer hardness (shore A): 57
- Temperature range: -35°F to 165°F
- Standard 50' rolls; ± 6" on cut lengths

Priced per foot; sold in 10' intervals only

The only choice for phthalate-free flexible tubing

Clear, flexible tubing for beverage transfer.

Tygon $S^{3^{10}}$ B-44-3 from Saint-Gobain Performance Plastics is now phthalate-free. Saint-Gobain is proud to be among the first companies to offer sustainable flexible tubing products. The bio-based Tygon $S^{3^{10}}$ line combines the high performance standards customers demand with an eco-friendly tubing design.

Versatile, High-Performance Tubing

Tygon S^{3™} B-44-3 is specially formulated for transferring a wide variety of beverages including soft drinks, fruit juices, flavored teas and bottled water.* In virtually all cases, Tygon S^{3™} B-44-3 will not affect the taste or odor of products transferred through it, while its excellent non-wetting properties facilitate complete drainage and permit simple flush-cleaning.

Many of the unique properties inherent to Tygon $S^{3^{10}}$ B-44-3 also apply to a wide variety of complex applications, ranging from fine cosmetic production to the dispensing of water-based printing inks found in the publishing industry. The versatility and proven performance of Tygon $S^{3^{10}}$ B-44-3 have made it today's most widely specified clear, flexible plastic tubing.

Lightweight and Flexible

Light in weight and easy to handle, Tygon $S^{3^{10}}$ B-44-3 can be put into service quickly. It readily bends to accommodate abrupt corners and obstructions, requiring a minimum of couplings and fittings.

Its flexibility can save up to one-third the footage and much of the labor required to install rigid stainless steel or plastic piping.

Clear as Glass

The glass-like clarity of Tygon $S^{3^{nd}}$ B-44-3 allows the user to see product flow through it, so visual monitoring of flow is easy. This is particularly helpful in controlling or adjusting flow during processing.

Different Sizes Available

Tygon $S^{3^{3^{10}}}$ B-44-3 is available in sizes ranging from I/I6" I.D. to 3-I/2" O.D. – all through our nationwide network of general plastics distributors. Leave it to Saint-Gobain Performance Plastics to make it convenient to select the right tubing for your application.

Regulatory Standards

Tygon S^{3™} complies with FDA, NSF, 3-A, Japan Food Sanitation Law # 370/1959, REACH, 1935/2004/EC and 10/2011/EU for many foods and beverages. Tygon S^{3™} tubing products do not contain chemicals listed in California's Proposition 65.

* For complete compliance information and appropriate use instructions, please refer to the detailed document of compliance. The complete compliance information and use instructions can be found at www.TygonS3.com.



Tygon S^{3™} B-44-3 Features/Benefits

- Clear as glass for easy visual monitoring of flow
- Lightweight and flexible for easy, quick installation
- · Broad chemical resistance
- Non-wetting properties allow easy cleaning and complete drainage
- Contains no BPA or phthalates

Typical Applications*

- Beverage dispensing
- Bag-in-box
- · Dairy processing
- Food dispensing
- Beverage transfer



Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15 Sec	D2240	66
Tensile Strength, psi (MPa)	D412	2,200 (15.2)
Ultimate Elongation, %	D412	390
Tear Resistance, lb-f/inch (kN/m)	D1004	250 (43.8)
Specific Gravity	D792	1.21
Water Absorption, % 24 hrs. @ 73°F (23°C)	D570	0.22
Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395 Method B	59
Brittleness Temp., °F (°C)	D746	-32 (-36)
Maximum Recommended Operating Temp. °F (°C)		165 (74)
Tensile Stress @ 200% Elongation, psi (MPa)	-	1,379 (9.5)
Tensile Set, %	D412	57
Color	-	Clear

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use

TYGON S^{3™} B-44-3 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

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	Gobain				Max. Working	Vacuum Rating
	Part			Minimum Bend	Pressure	In. of Mercury
	Number	I.D.	O.D.	Radius, in	at 73°F, psi	at 73°F
	AAB00002	1/16	1/8	1/4	60	29.9
	AAB00003	1/16	3/16	1/8	100	29.9
	AAB00004	3/32	5/32	3/8	43	29.9
ĺ	AAB00005	3/32	7/32	1/4	74	29.9
	AAB00006	1/8	3/16	1/2	34	25.0
	AAB00007	1/8	1/4	3/8	60	29.9
	AAB00009	5/32	7/32	3/4	28	16.0
	AAB00010	5/32	9/32	1/2	50	29.9
	AAB00011	3/16	1/4	I	25	11.0
	AAB00012	3/16	5/16	5/8	43	29.9
	AAB00013	3/16	3/8	1/2	60	29.9
	AAB00014	3/16	7/16	3/8	74	29.9
	AAB00016	1/4	5/16	1-5/8	19	6.0
	AAB00017	1/4	3/8	I	34	25.0
	AAB00018	1/4	7/16	3/4	47	29.9
	AAB00019	1/4	1/2	5/8	60	29.9
	AAB00022	5/16	7/16	I-3/8	28	16.0
	AAB00023	5/16	1/2	I	40	29.9
	AAB00024	5/16	9/16	7/8	50	29.9
	AAB00027	3/8	1/2	I-3/4	25	11.0
	AAB00028	3/8	9/16	I-3/8	34	25.0
	AAB00029	3/8	5/8	1-1/8	44	29.9
	AAB00034	7/16	11/16	I-3/8	36	29.9
	AAB00036	1/2	5/8	2-7/8	19	6.0
	AAB00037	1/2	11/16	2-1/8	27	14.0
	AAB00038	1/2	3/4	I-3/4	34	25.0
	AAB00046	5/8	7/8	2-3/8	29	16.0
	AAB00051	11/16	15/16	2-7/8	27	13.0
	AAB00053	3/4	I	3-1/4	25	11.0
	AAB00059	7/8	1-1/8	4-1/8	22	8.0
	AAB00062	I	1-1/4	5-1/8	20	6.0
	AAB00064	I	I-3/8	3-3/4	27	14.0
	AAB00065	I	1-1/2	3	34	25.0
	AAB00069	1-1/4	1-1/2	7-3/8	16	4.0
	AAB00070	1-1/4	I-5/8	5-1/2	23	9.0
	AAB0007I	1-1/4	I-3/4	4-3/8	28	16.0
	AAB00073	1-1/2	I-7/8	7-1/4	19	6.0
	AAB00074	1-1/2	2	5-7/8	25	11.0
	AAB00076	I-3/4	2-1/4	7-1/2	22	8.0
	AAB00078	2	2-1/2	9-3/8	19	6.0
	AAB05080	2	3	5-1/2	34	25.0
	AAB05081	2-1/4	2-3/4	11-1/4	18	5.0

Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599.

Unless otherwise noted, all tests were conducted at room temperature ($73^{\circ}F$). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.



Saint-Gobain Performance Plastics

2664 Gilchrist Road Akron, OH 44305 Tel: (800) 798-1554 Tel: (330) 798-9240 Fax: (330) 798-6968 TYGON® is a registered trademark.



IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.