

ATEX / IECEX RATED LINE BUSHINGS

57754 SERIES

FEATURES

- Pre-assembled and tested sealed line bushings
- Combine various mechanical and electrical features to meet your needs
- Customize and integrate to your certification needs

APPLICATIONS

- Instrumentation
- Controls
- Sensors

OVERVIEW

Line bushings are commonly used to seal an electrical junction in hazardous locations transmitting power or signal. The line bushing protects against the penetration of hazardous liquids and gases within the explosive or hazardous environment. Douglas Electrical Components manufactures our 57754 series sealed line bushings certified for ATEX and IECEx ratings for flameproof enclosure "d" ratings.

CERTIFICATION

- ATEX Flameproof Rated to: II 2 G Ex db IIC Gb
- IECEx Rated to: Ex db IIC Gb

MATERIAL OPTIONS

- Stainless steel
- Aluminium
- Brass

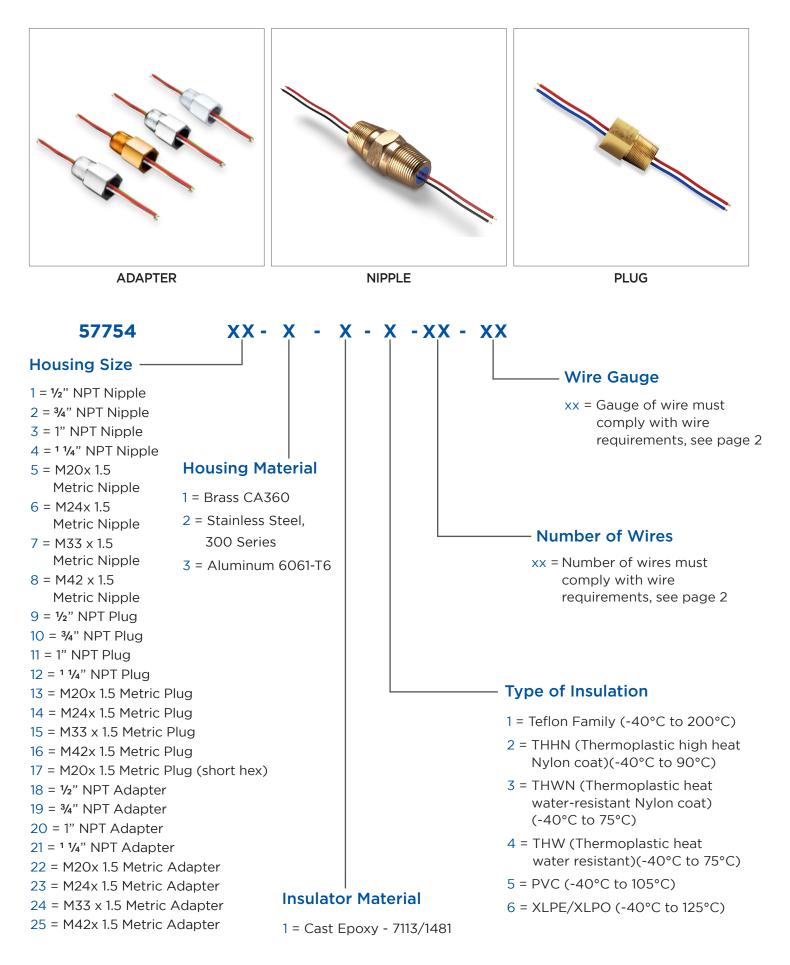
SPECIFICATIONS

Housing Material	Brass, Stainless Steel, or Aluminum
Sealing Insulation Material	Ероху
Wire Insulation	Any cable types complying with IEC 60079-14
Wire Gauge	26 AWG to 2 AWG (0.14 mm ² to 35 mm ²)
Wire Conductor Count	1 to 107
NPT Thread Sizes	1/2" 3/4" 1" 1.25"
Metric Thread Sizes	M20 M24 M33 M42
Bushing Type	Plug - Single-ended male thread Nipple - Two Male Threads Adapter - Female to Male threads
Service Temperature Range	-40°C to +110°C
Bushing Type	Plug - Single-ended male thread Nipple - Two Male Threads Adapter - Female to Male threads

MAXIMUM WIRE COUNT PER FITTING

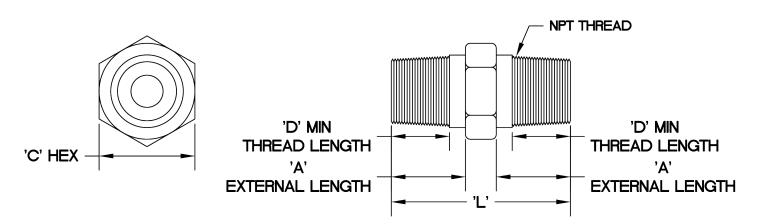
	Wires													
	mm²	0.14	0.25	0.34	0.5	0.75	1.5	2.5	4	6	10	16	25	35
Line bushing	AWG	26	24	22	20	18	16	14	12	10	8	6	4	2
Max. diamete [mm] ¹	diameter	1.166	1.273	1.405	1.57	1.76	2.16	2.79	3.3	4.06	5.86	6.9	8.38	10.29
1/2 NPT		12	9	9	5	5	4	4	4	2	1	1	0	0
3/4 NPT		23	23	20	20	13	12	9	7	5	4	2	1	1
1 NPT		52	50	43	36	28	23	20	13	12	5	4	2	1
1-1/4 NPT	Max no.	84	77	67	58	50	42	36	23	20	12	7	4	3
M20	of wires	12	9	9	5	5	4	4	4	2	1	1	0	0
M24		20	16	13	9	9	9	5	5	4	1	1	1	1
M33		52	50	43	36	28	23	20	13	12	5	4	2	1
M42		107	93	86	66	58	50	36	31	23	12	9	4	4
Notes: ¹ Includes insulation	hickness													

ORDERING INFORMATION



DIMENSIONAL DATA

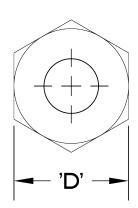
NPT NIPPLE

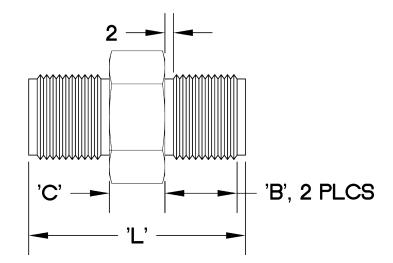


HOUSING SIZE	THREAD	A (min)	'B'	'C'	D (min)	ዊ
1	1/2"	19.9	12.7	22.0	13.6	48.0
2	3/4"	20.2	19.1	27.8	13.9	50.0
3	1"	25.0	25.4	34.7	17.3	59.4
4	1 1/4"	25.6	31.8	44.3	18.0	63.0

Note: Dimensions in millimeters unless otherwise noted.

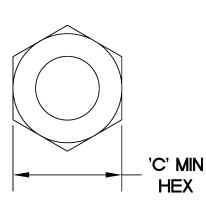
METRIC NIPPLE

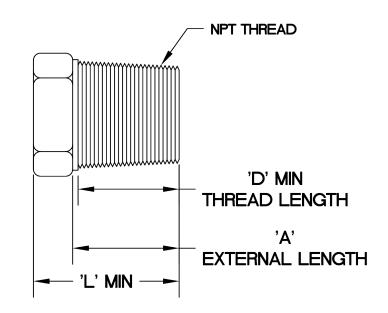




HOUSING SIZE	THREAD	'B'	'C'	'D'	ť
5	M20x I.5-6g	17	14	25	52
6	M24x I.5-6g	19	14	27	56
7	M33 X I.5-6g	19	16	35	60
8	M42 X I.5-6g	25	16	48	72

NPT PLUGS

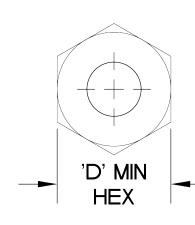


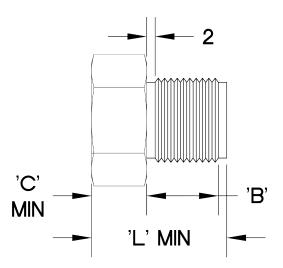


HOUSING SIZE	THREAD	'B'	C (min)	D (min)	L (min)
9	1/2"	12.7	22.0	13.6	33.3
10	3/4"	19.1	26.8	13.9	39.7
11	1"	25.4	34.7	17.3	44.5
12	1 1/4"	31.8	44.3	18.0	44.5

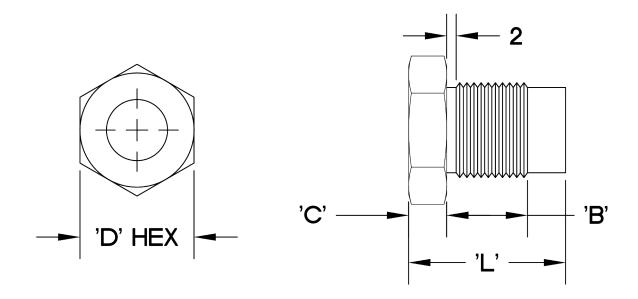
Note: Dimensions in millimeters unless otherwise noted.

METRIC PLUG





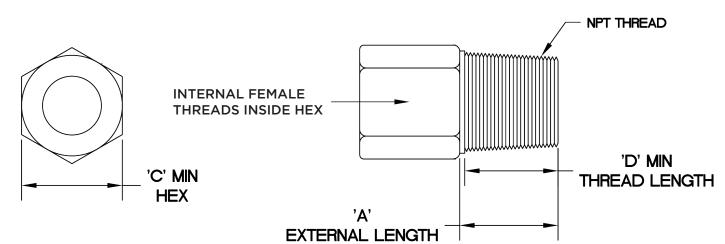
HOUSING SIZE	THREAD	'B'	'C' (min)	'D' (min)	'L' (min)
13	M20x I.5-6g	17	14	25	33
14	M24x I.5-6g	19	14	27	35
15	M33 X I.5-6g	19	16	35	38
16	M42 X I.5-6g	25	16	48	44



HOUSING SIZE	THREAD	'B'	'C'	'D'	'L' (min)
17	M20x I.5-6g	17	8	24	33

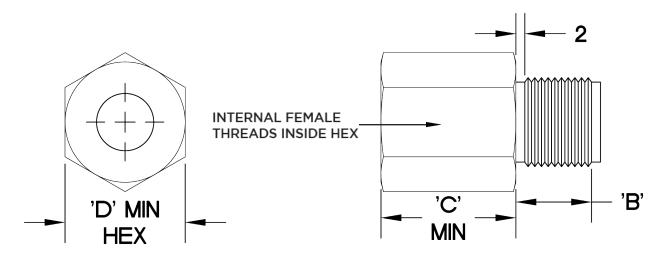
Note: Dimensions in millimeters unless otherwise noted.

NPT ADAPTER



HOUSING SIZE	THREAD	'B'	C (min)	D (min)	L (min)
18	1/2"	12.7	26.8	13.6	33.3
19	3/4"	19.1	33.1	13.9	39.7
20	1"	25.4	41.1	17.3	44.5
21	1 1/4"	31.8	50.6	18.0	44.5

METRIC ADAPTER



HOUSING SIZE	THREAD	'B'	'C' (min)	'D' (min)	'L' (min)
22	M20x I.5-6g	17	14	25	33
23	M24x I.5-6g	19	14	27	35
24	M33 X I.5-6g	19	16	35	38
25	M42 X I.5-6g	25	16	48	44

Contact Douglas Electrical Components to request a quote for your standard or custom explosion-proof feedthrough or bushing



To Order

You may place an order directly with our sales staff at 973.627.8230.

Technical Questions or Design Assistance

Please call our Product Engineering Department 973.627.8230.

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Domestic shipments: All products are shipped F.O.B. Randolph, NJ. We offer a prompt payment discount of 1% 10 days, Net Cash 30 days to customers who have had their credit approved. Prices and specifications are subject to change without notice. Foreign shipments: All terms and conditions will be negotiated at time of order placement.

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All products are warranted to be free of defects in materials and workmanship for a period of twelve months from date of shipment. Our liability, unless explicitly changed by us, is strictly limited to the repair or replacement (at our option) of defective parts. Any defective parts must be returned to us to receive credit or replacement. Returned product must be accompanied by an RMA number. RMA numbers may be obtained by calling our Sales Administration Office at 973.627.8230.

Errors

While we believe that all information in this catalog is accurate and correct, we do not take responsibility for typographical errors.

Douglas Electrical Components, Inc., 5 Middlebury Blvd., Randolph, NJ 07869

Ph: +1 (973) 627-8230 E: contactus@douglaselectrical.com W: douglaselectrical.com

