

NUT WITHOUT SPRING

	Part No.	Thread Size	Fits Channel Sizes	Nut Thickness		Wt./C	
						Lbs.	kg
Fittings	N221WO	#8-32	All sizes except B62 & B72	1/4"	(6.3)	7.0	(3.17)
	N621WO	#8-32	B62 & B72	.150	(3.81)	1.0	(.45)
	N227WO	#10-32	All sizes except B62 & B72	1/4"	(6.3)	7.0	(3.17)
	N627WO	#10-32	B62 & B72	.150	(3.81)	1.0	(.45)
	N222WO	#10-24	All sizes except B62 & B72	1/4"	(6.3)	7.0	(3.17)
	N622WO	#10-24	B62 & B72	.150	(3.81)	1.0	(.45)
Beam Clamps	N224WO	1/4-20	All sizes except B62 & B72	1/4"	(6.3)	6.7	(3.04)
	N624WO	1/4-20	B62 & B72	.150	(3.81)	1.0	(.45)
	N223WO	5/16-18	All sizes except B62 & B72	1/4"	(6.3)	6.7	(3.04)
	N228WO	3/8-16	All sizes except B62 & B72	3/8"	(9.5)	9.3	(4.22)
	N226WO	7/16-14	All sizes except B62 & B72	3/8"	(9.5)	8.8	(3.99)
	N225WO	1/2-13	B11, B12, B22, B24, B26, B32	1/2"	(12.7)	11.6	(5.26)
Pipe Clamps	N525WO	1/2-13	B42, B52, B54, B56	3/8"	(9.5)	8.8	(3.99)
	N255WO	5/8-11	B11, B12, B22, B24, B26, B32	1/2"	(12.7)	16.4	(7.44)
	N555WO	5/8-11	B42, B52, B54, B56	3/8"	(9.5)	10.2	(4.62)
	N275WO	3/4-10	B11, B12, B22, B24, B26, B32	1/2"	(12.7)	14.5	(6.58)
	N575WO	3/4-10	B42, B52, B54, B56	3/8"	(9.5)	8.8	(3.99)
	N278WO	7/8-9	B11, B12, B22, B24, B26, B32	1/2"	(12.7)	12.5	(5.67)
Electrical Accessories	Metric						
	BMM-3	M3.5 x 0.6	B62 & B72	.150	(3.81)	1.0	(0.45)
	BMM-4	M4 x 0.7	B62 & B72	.150	(3.81)	1.0	(0.45)
	BMM-5	M5 x 0.8	B62 & B72	.150	(3.81)	1.0	(0.45)
	BMM-6	M6 x 1	B62 & B72	.150	(3.81)	1.0	(0.45)
	BMS-6	M6 x 1	All sizes except B62 & B72	1/4"	(6.3)	6.9	(3.13)
Special Materials & Fiberglass	BMS-8	M8 x 1.25	All sizes except B62 & B72	1/4"	(6.3)	6.7	(3.04)
	BMS-10	M10 x 1.5	All sizes except B62 & B72	3/8"	(9.5)	9.6	(4.35)
	BMS-12	M12 x 1.75	All sizes except B62 & B72	3/8"	(9.5)	9.2	(4.17)
	BMS-D-12	M12 x 1.75	B11, B12, B22, B24, B26, B32	1/2"	(12.7)	12.2	(5.53)

CHANNEL NUTS & HARDWARE

Channel Nuts

B-Line's channel nut is one of the main components of our metal framing system. It is designed to provide essential gripping power and ease during installation. Channel nuts are press formed, machined and hardened from steel which meets the requirements of ASTM A108 or ASTM A36 for our larger sizes.

Bolts, Screws, and Nuts

All bolts, screws and nuts meet the physical and chemical requirements of ASTM A307, SAE J429 or ASTM A563, and have unified inch screw threads (coarse, UNC). ISO metric threads are also available on special request.

Recommended Torque

Bolt Size	1/4-20	5/16-18	3/8-16	1/2-13
Foot/Lbs.	6	11	19	50
Nm	8	15	26	68

Bolt Size	M6x1	M8 x1.5	M10 x 1.5	M12x1.75
NM	12	17	36	62
Foot/Lbs.	9	13	27	46

Materials & Finishes*

Finish Code	Finish	Specification
PLN	Plain	ASTM A108/A307 Gr. A
ZN	Electro-Plated Zinc	ASTM B633 SC1 Type III
CZ	Chromium Zinc	ASTM F1136 Gr. 3
HDG	Hot-Dipped Galvanized	ASTM A153
SS4	Stainless Steel Type 304	ASTM A593
SS6	Stainless Steel Type 316	MPIF 35/ASTM A593
AL	Aluminum	ASTM F468 S4

*Unless otherwise noted.

Metric

Metric dimensions are shown in parentheses. Unless noted, all metric dimensions are in millimeters.

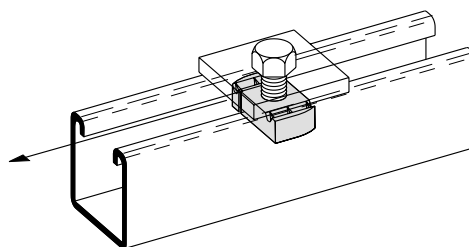


RESISTANCE TO SLIP

- With Safety Factor of 3
- Maximum slip strength for 12 gauge channels is limited to 1550 lbs. (6670 N)

Thread Size	Nut Part Numbers	Resistance to Slip					
		12 ga. Channel		14 ga. Channel		16 ga. Channel	
		Lbs.	N	Lbs.	N	Lbs.	N
#8-32	N221, N221WO, N521 N721, TN221	50	220	50	220	50	220
#10-24	N222, N222WO, N522 N722, TN222	100	440	100	440	100	440
#10-32	N227, N227WO, N527 N727, TN227	100	440	100	440	100	440
1/4"-20	FN224, N224, N224WO, N524 N724, TN224	300	1330	300	1330	300	1330
5/16"-18	N223, N223WO, N523 N723, TN223	450	2000	450	2000	450	2000
3/8"-16	FN228, N228, N228WO, N528 N728, TN228	800	3560	600	2670	600	2670
7/16"-14	N226, N226WO, N526 N726, TN226	1000	4450	800	3560	800	3560
1/2"-13	N225, N225WO, N725, TN225	1500	6670	1000	4450	1000	4450
	N525, N525WO, TN525	1500	6670	1000	4450	1000	4450
5/8"-11	N255, N255WO, N755	1500	6670	1000	4450	1000	4450
	N555, N555WO	1500	6670	1000	4450	1000	4450
3/4"-10	N275, N275WO, N775	1500	6670	1000	4450	1000	4450
	N575, N575WO	1500	6670	1000	4450	1000	4450
7/8"-9	N278, N278WO, N778	1500	6670	1000	4450	1000	4450

Resistance to Slip
of Channel Nut



PULL-OUT STRENGTH

•With Safety Factor of 3

•Maximum pullout strength for B11 & B12 channels is limited to 1550 lbs. (6670 N).

Thread Size	Nut Part Numbers	Pull-Out Strength					
		12 ga. Channel		14 ga. Channel		16 ga. Channel	
		Lbs.	N	Lbs.	N	Lbs.	N
#8-32	N221, N221WO, N521 N721, TN221	200	890	200	890	200	890
#10-24	N222, N222WO, N522 N722, TN222	250	1110	250	1110	250	1110
#10-32	N227, N227WO, N527 N727, TN227	250	1110	250	1110	250	1110
1/4"-20	FN224, N224, N224WO, N524 N724, TN224	450	2000	450	2000	450	2000
5/16"-18	N223, N223WO, N523 N723, TN223	750	3330	750	3330	750	3330
3/8"-16	FN228, N228, N228WO, N528 N728, TN228	1100	4890	1000	4450	1000	4450
7/16"-14	N226, N226WO, N526 N726, TN226	1500	6670	1200	5340	1000	4450
1/2"-13	N225, N225WO, N725, TN225	2000	8900	1400	6230	1000	4450
	N525, N525WO, TN525	1500	6670	1400	6230	1000	4450
5/8"-11	N255, N255WO, N755	2000	8900	1400	6230	1000	4450
	N555, N555WO	1500	6670	1400	6230	1000	4450
3/4"-10	N275, N275WO, N775	2000	8900	1400	6230	1000	4450
	N575, N575WO	1500	6670	1400	6230	1000	4450
7/8"-9	N278, N278WO, N778	2000	8900	1400	6230	1000	4450

**Pull-Out Strength
of Channel Nut**

