


# MATERIAL DECLARATION



Material Number	3548H-1xA-xxxx 3548H-1xB-xxxx			
Product Line	Sensors & Controls			
Compliance Date	1/28/2025			
RoHs Compliant	Yes	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Hex Nut	Brass C260	0.0819	Copper	7440-50-8	70	0.197	0.28
				Zinc	7440-66-6	30	0.0846	
		Plating	0.0001	Nickel	7440-02-0	100	0.0003	0.0003
2	Lockwasher	Stainless Steel 304	0.05	Carbon	7440-44-0	0.18	0.0003	0.17
				Manganese	7439-96-5	2	0.003	
				Phosphorus	7723-14-0	0.045	0.00008	
				Sulfur	7704-34-9	0.03	0.00005	
				Silicon	7440-21-3	0.75	0.001	
				Chromium	7440-47-3	17	0.03	
				Nickel	7440-02-0	8	0.01	
				Iron	7439-89-6	71.995	0.12	
		Plating	0.0001	Nickel	7440-02-0	100	0.0003	0.0003
3	Terminal Wiper	Brass C260	0.3000	Copper	7440-50-8	70	0.197	1.03
				Zinc	7440-66-6	30	0.31	
		Under Plating	0.0120	Nickel	7440-02-0	100	0.041	
		Finish Plating	0.0274	Gold	7440-57-5	100	0.094	
4	Cover	GS-51 Nylatron	1.642004	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	3.73	5.66

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5	Housing	ShinKong compound (Black)	7.893	Glass Fiber	65997-17-3	32	1.81	27.19
				Molybdenum Disulfide	1317-33-5	2	0.11	
				PBT	30965-26-5	49	13.32	
				Gass fiber	65997-17-3	35	9.5166	
				Brominated epoxy resin	68928-70-1	10	2.7190	
6	Varnish	Varnish	0.052	Antimony trioxide	1309-64-4	6	1.6314	0.18
				Phenolic Resin	9003-35-4	100	0.1791	
7	Mandrel Wire	Annealed Copper Wire	1.3120159	Copper	7440-50-8	100	4.52	4.52
		Coating	0.0000312	Polyamide	63428-83-1	100	0.00011	0.0001
8	Resist Wire	Nickel/ Chromium Alloy	0.13181	Nickel	7440-02-0	74	0.34	0.45
				Copper	7440-50-8	1	0.00	
				Chromium	7440-47-3	21	0.10	
				Aluminum	7429-90-5	1	0.005	
				Silicon	7440-21-3	1	0.005	
				Cobalt	7440-48-4	1	0.005	
				Manganese	7439-96-5	1	0.005	
9	Collector Bar	Nickel/Silver C762	0.063	Copper	7440-50-8	55	0.119	0.22
				Nickel	7440-02-0	18	0.04	
				Zinc	7440-66-6	27	0.0586	
		Plating	0.002	Gold	7440-57-5	100	0.007	0.007
10	Lube	NYE N799	0.1	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.19	0.34
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.020	

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				Isohexadecyl- isooctadecanoate	52006-45- 8	33.7	0.12	
				Polyisobutylene	9003-27-4	6.2	0.021	
11	Lube	NYE 774F	0.00815	1-Decene, tetramer, mixed with 1-decene trimer, hydorgenated	68649-12- 7	58.8	0.017	0.03
				1-Propene, polymer with ethene	9010-79-1	30.8	0.009	
				Silica, amorphous fumed	112945- 52-5	5.4	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.001	
12	Epoxy	BLUE EPOXY E940	0.00563	Epoxy resin	25068-38- 6	48	0.009	0.019
				Epoxy resin	25085-99- 8	10	0.0019	
				Aluminum trihydrate	21645-51- 2	21	0.004	
				Magnesium alumino silicate	1327-43-1	9.3	0.0018	
				Kaolin hydrous	1332-58-7	6	0.0012	
				Resin	2210-79-9	4.2	0.0008	
				Titanium dioxide	13463-67- 7	1	0.00019	
				Pigment	147-14-8	0.5	0.00010	
13	Rotor Molded	GS-51 Nylatron	1.58757	Nylon 6.6 (polyhexamethylene adipamide)	32131-17- 2	66	3.61	5.47
				Glass Fiber	65997-17- 3	32	1.75	
				Molybdenum Disulfide	1317-33-5	2	0.109	

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14	Slider Molded	GS-51 Nylatron	0.7937866	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	1.805	2.73
				Glass Fiber	65997-17-3	32	0.875	
				Molybdenum Disulfide	1317-33-5	2	0.055	
15	Lid Molded	ShinKong compound (Black)	2.2112628	PBT	30965-26-5	49	3.733	7.62
				Glass fiber	65997-17-3	35	2.666	
				Brominated epoxy resin	68928-70-1	10	0.762	
				Antimony trioxide	1309-64-4	6	0.457	
16	Contact Spring	Pfinodal 7 C72900	0.01	Copper	7440-50-8	72.875	0.03	0.03
				Lead	7439-92-1	0.025	0.00001	
				Iron	7439-89-6	0.3	0.0001	
				Nickel	7440-02-0	21	0.0072	
				Cobalt	7440-48-4	0.25	0.0001	
				Tin	7440-31-5	5.1	0.001757	
				Manganese	7439-96-5	0.3	0.000103	
				Misc	Not to declare	0.15	0.000052	
	Paliney #6	0.003	Palladium	7440-05-3	39.8	0.004113	0.01	
			Silver	7440-22-4	33.9	0.003503		
			Copper	7440-50-8	24.2	0.002501		
			Platinum	7440-06-4	0.5	0.000052		
Nickel			7440-02-0	1.59	0.000164			
Shaft	Brass C626	6.89	Copper	7440-50-8	66	15.67	23.73	
			Zinc	7440-66-6	31.12	7.39		
			Lead	7439-92-1	1.2	0.28		
			Tin	7440-31-5	0.3	0.07		

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				Iron	7439-89-6	0.1	0.02	
				Aluminum	7429-90-5	0.9	0.21	
				Nickel	7440-02-0	0.2	0.05	
				Manganese	7439-96-5	0.1	0.02	
				Arsenic	7440-38-2	0.08	0.02	
		Plating	0.001	Nickel	7440-02-0	100	0.003	0.003
18	Washer x2	Stainless Steel 301	0.002	Carbon	7440-44-0	0.15	0.00001	0.0069
				Manganese	7439-96-5	2	0.0001	
				Phosphorus	7723-14-0	0.05	0.000003	
				Sulfur	7704-34-9	0.03	0.000002	
				Silicon	7440-21-3	1.00	0.00007	
				Chromium	7440-47-3	17.00	0.0012	
				Nickel	7440-02-0	7.00	0.0022	
Iron	7439-89-6	72.78	0.0226					
19	Retaining Ring	Stainless Steel 420	0.009	Carbon	7440-44-0	0.15	0.00005	0.03
				Manganese	7439-96-5	1.00	0.0003	
				Silicon	7440-21-3	1.00	0.0003	
				Phosphorous	7723-14-0	0.04	0.00001	
				Sulfur	7704-34-9	0.30	0.00009	
				Chromium	7440-47-3	14.00	0.004	
				Iron	7439-89-6	83.51	0.026	
20	Bushing	Brass C360	3.71	Copper	7440-50-8	61.50	7.860	12.78
				Zinc	7440-66-6	35.40	4.524	
				Lead	7439-92-2	3.10	0.396	
21	T.R. Terminal x2	Nickel/Silver C752	0.164	Copper	7440-50-8	65.00	0.367	0.56
				Nickel	7440-02-0	18.00	0.102	
				Zinc	7440-66-6	17.00	0.096	
		Solder Inlay	0.0001	Silver	7440-22-4	56.00	0.0002	0.0003

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				Copper	7440-50-8	22.00	0.0001	
				Zinc	7440-66-6	17.00	0.00006	
				Tin	7440-31-5	5.00	0.00002	
		Plating	0.00074	Gold	7440-57-5	100.00	0.003	0.003
22	T.R. Pin Strip	Nickel Silver CDA752	0.249	Nickel	7440-02-0	18.00	0.154	0.858
				Copper	7440-50-8	65.00	0.558	
				Zinc	7440-66-6	17.00	0.146	
23	Terminal Cover	GS-51 Nylatron	1.367581	Nylon 6.6 (polyhexamethylene adipamide)	32131-17- 2	66.00	3.109	4.71
				Glass fiber	65997-17- 3	32.00	1.508	
				Molybdenum disulfide	1317-33-5	2.00	0.094	
24	Tab	Silver Alloy A56T	0.013312288	Silver	7440-22-4	56.00	0.0257	0.05
				Copper	7440-50-8	22.00	0.0101	
				Zinc	7440-66-6	17.00	0.0078	
				Tin	7440-31-5	5.00	0.0023	
		Strip	0.1924	Nickel	7440-02-0	100.00	0.0459	0.66
25	Lid Resin	Valox 420	0.003	PBT	30965-26- 5	55.00	0.0057	0.01
				Glass Fiber	65997-17- 3	30.00	0.0031	
				Antimony Trioxide	1309-64-4	4.00	0.0004	
				Brominated FR (TBBPA polycarbonate polymer)	trade secret	11.00	0.0011	
26	Ink	138:Hyb. Beta/Gamma(25/75) Ink	0.14	3-chloroprop-1- ene,formaldehyde,phenol	28470-78- 2	38.00	0.1833	0.48
				Carbon Black	1333-86-4	20.70	0.0998	
				Diallyl Isophthalate	1087-21-4	35.80	0.1727	
				Graphite	7782-42-5	5.50	0.0265	
		Total weight	29.0289					

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**This Document was updated on: 01/28/2025**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.