


MATERIAL DECLARATION SHEET



Product Part Number	1540-02			
Product Line	Outdoor PoE			
MSL	1			
RoHS Compliant	Yes	Compliance Date	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material/Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Modified enclosure	Polycarbonate	185.0000	Lexan 945 U	111211-39-3	100.0000	57.1254619	57.12546
2	o-ring	Nitrile	1.0000	Nitrile	9005-98-5	100.0000	0.3087863	0.30879
3	Screw M4x20	Stainless steel	8.2400	Iron	7439-89-6	70.0000	1.7810793	2.54440
				Chromium	7440-47-3	19.0000	0.4834358	
				Nickel	7440-02-0	8.0000	0.2035519	
				Copper	7440-50-8	3.0000	0.0763320	
4	Cable grip	Nylon with neoprene seal	37.6200	Polychloroprene	9010-98-4	9.8884	1.1486850	11.61654
				Nylon 6	25038-54-4	90.1116	10.4678549	

5	PCB	FR4	23.6000	Glass fiber	65997-17-3	45.0000	3.2793103	7.28736
				Epoxy resin	26265-08-7	35.0000	2.5505747	
				Further additive	Trade secret	5.0000	0.3643678	
				Copper	7440-50-8	15.0000	1.0931034	
6	Dual Uni-directional TBU Device	Silicon	0.0330	Silicon	7440-21-3	100.0000	0.0101899	0.01019
		Copper alloy	0.2900	Copper	7440-50-8	95.6500	0.0856527	0.08955
				Iron	7439-89-6	2.1800	0.0019521	
				Phosphorus	7723-14-0	0.0300	0.0000269	
				Zinc	7440-66-6	0.1300	0.0001164	
				Silver	7440-22-4	2.0100	0.0017999	
		Silver epoxy	0.0109	Epoxy resin	Trade secret	2.9900	0.0001006	0.00337
				Functionalized ester	Trade secret	7.0100	0.0002359	
				Polymeric compound	Trade secret	2.9900	0.0001006	
				Silver	7440-22-4	87.0100	0.0029286	
		Gold bond wire	0.0011	Gold	7440-57-5	100.0000	0.0003304	0.00033

		Epoxy resin	0.2500	Silica fused	60676-86-0	90.4900	0.0698552	0.07720
				Epoxy resin	Trade secret	4.7000	0.0036282	
				Phenol resin	Trade secret	4.7000	0.0036282	
				Carbon black	1333-86-4	0.1100	0.0000849	
		Tin plating	0.0170	Tin	7440-31-5	100.0000	0.0052494	0.00525
7	GDT	Tin plated Alloy 42 electrode	9.8300	Iron	7439-89-6	56.4000	1.7119482	3.03537
				Nickel	7440-02-0	40.8000	1.2384306	
				Tin	7440-31-5	2.8000	0.0849903	
		Ceramic	5.8500	Aluminum oxide	1344-28-1	95.0000	1.7160798	1.80640
				Silicon dioxide	7631-86-9	5.0000	0.0903200	
		Tin plated Copper electrode	3.3100	Copper	7440-50-8	99.2000	1.0139059	1.02208
				Nickel	7440-02-0	0.2000	0.0020442	
				Tin	7440-31-5	0.6000	0.0061325	
		Cusil™	0.3500	Silver	7440-22-4	72.0000	0.0778141	0.10808
				Copper	7440-50-8	28.0000	0.0302611	

Gas	0.0049	Argon	7440-37-1	100.0000	0.0015131	0.00151
Green Ink	0.0070	Ink (Proprietary mixture)	Trade secret	100.0000	0.0021615	0.00216
Tin plated Copper wire	1.0500	Copper	7440-50-8	97.0000	0.3144988	0.32423
		Tin	7440-31-5	3.0000	0.0097268	
Tin plated Alloy 25 failsafe clip	1.6900	Copper	7440-50-8	95.3000	0.4973219	0.52185
		Beryllium	7440-41-7	1.9000	0.0099151	
		Tin	7440-31-5	2.8000	0.0146118	
Tin plated Alloy C260 failsafe support	0.2300	Copper	7440-50-8	68.7000	0.0487913	0.07102
		Zinc	7440-66-6	29.5000	0.0209511	
		Tin	7440-31-5	1.8000	0.0012784	
CASTIN alloy solder for failsafe	0.2600	Tin	7440-31-5	96.2000	0.0772336	0.08028
		Silver	7440-22-4	2.5000	0.0020071	
		Copper	7440-50-8	0.8000	0.0006423	
		Antimony	7440-36-0	0.5000	0.0004014	

8	TVS diode	Epoxy resin	0.0105	Silica fused	60676-86-0	87.7000	0.0028435	0.00324
				Epoxy resin	Trade secret	5.0000	0.0001621	
				Epoxy CN	29690-82-2	2.0000	0.0000648	
				Phenol resin	Trade secret	5.0000	0.0001621	
				Carbon black	1333-86-4	0.3000	0.0000097	
		Copper alloy	0.0080	Copper	7440-50-8	94.5600	0.0023359	0.00247
				Iron	7439-89-6	2.2300	0.0000551	
				Zinc	7440-66-6	0.0100	0.0000002	
				Phosphorus	7723-14-0	0.0300	0.0000007	
				Silver	7440-22-4	3.1700	0.0000783	
		Silicon chip	0.0008	Silicon	7440-21-3	93.7400	0.0002316	0.00025
				Aluminum	7429-90-5	3.0500	0.0000075	
				Nickel	7440-02-0	3.0800	0.0000076	
				Gold	7440-57-5	0.1300	0.0000003	

		Silver epoxy	0.0002	Epoxy resin	Trade secret	2.9900	0.0000015	0.00005
				Functionalized ester	Trade secret	7.0100	0.0000035	
				Polymeric compound	Trade secret	2.9900	0.0000015	
				Silver	7440-22-4	87.0100	0.0000430	
		Gold bond wire	0.0001	Gold	7440-57-5	100.0000	0.0000278	0.00003
		Tin plating	0.0002	Tin	7440-31-5	100.0000	0.0000509	0.00005
9	Terminal lug	tin plated copper	0.3100	Copper	7440-50-8	99.9766	0.0957014	0.09572
				Tin	7440-31-5	0.0234	0.0000224	
10	Wire green 14 AWG	Copper wire	16.0000	Copper	7440-50-8	81.9000	4.0463354	4.94058
		Insulation		Polyvinyl chloride	9002-86-2	18.1000	0.8942451	
11	Solder Paste	96.5Sn/3.5AG	0.1000	Tin	7440-31-5	96.5000	0.0297979	0.03088
				Silver	7440-22-4	3.5000	0.0010808	
12	Solder wire	SAC387	0.1000	Tin	7440-31-5	95.5000	0.0294891	0.03088
				Silver	7440-22-4	3.8000	0.0011734	
				Copper	7440-50-8	0.7000	0.0002162	

13	Screw M3x8	Zinc plated steel	2.8000	Iron	7439-89-6	99.9900	0.8645151	0.86460
				Zinc	7440-66-6	0.0100	0.0000865	
14	Screw 10-32	Brass	3.5000	Copper	7440-50-8	70.0000	0.7565264	1.08075
				Zinc	7440-66-6	30.0000	0.3242256	
15	Beveled washer	Brass	0.7500	Copper	7440-50-8	70.0000	0.1621128	0.23159
				Zinc	7440-66-6	30.0000	0.0694769	
16	Tab washer	Brass	0.8700	Copper	7440-50-8	70.0000	0.1880508	0.26864
				Zinc	7440-66-6	30.0000	0.0805932	
17	o-ring	Nitrile	0.0100	Nitrile	9005-98-5	100.0000	0.0030879	0.00309
18	Nut	Brass	2.2800	Copper	7440-50-8	70.0000	0.4928229	0.70403
				Zinc	7440-66-6	30.0000	0.2112098	
19	o-ring	Nitrile	0.5000	Nitrile	9005-98-5	100.0000	0.1543931	0.15439
20	Sasher	Brass	1.6200	Copper	7440-50-8	70.0000	0.3501636	0.50023
				Zinc	7440-66-6	30.0000	0.1500701	
21	Acrylic conformal coating	HumiSeal® 1B73	0.0100	Acrylic resin	Trade secret	100.0000	0.0030879	0.00309

22	Modular jack	Insert	1.5700	Polybutylene terephthalate	30965-26-5	48.2500	0.2339133	0.48479
				Glass fiber	65997-17-3	28.8000	0.1396208	
				Brominated flame retardants	71342-77-3	15.0000	0.0727192	
				Diantimony trioxide	1309-64-4	5.0000	0.0242397	
				Talc	14807-96-6	0.5500	0.0026664	
				Carbon black	1333-86-4	0.5500	0.0026664	
				Organic phosphorous compound	-	0.0700	0.0003394	
				Colorant	-	0.6500	0.0031512	
				Misc., not to declare	-	1.1300	0.0054782	
		4 in-line contacts A	0.6200	Copper	7440-50-8	92.7515	0.1775703	0.19145
				Lead	7439-92-1	0.0199	0.0000381	
				Cadmium	7440-43-9	0.0010	0.0000019	
				Iron	7439-89-6	0.0995	0.0001904	
				Tin	7440-31-5	6.2173	0.0119029	
				Zinc	7440-66-6	0.1990	0.0003809	

		Phosphorus	7723-14-0	0.1890	0.0003618	
		Nickel	7440-02-0	0.5032	0.0009634	
		Gold	7440-57-5	0.0196	0.0000375	
		Cobalt	7440-48-4	0.0001	0.0000002	
4 in-line contacts B	0.6200	Copper	7440-50-8	92.7515	0.1775703	0.19145
		Lead	7439-92-1	0.0199	0.0000381	
		Cadmium	7440-43-9	0.0010	0.0000019	
		Iron	7439-89-6	0.0995	0.0001904	
		Tin	7440-31-5	6.2173	0.0119029	
		Zinc	7440-66-6	0.1990	0.0003809	
		Phosphorus	7723-14-0	0.1890	0.0003618	
		Nickel	7440-02-0	0.5032	0.0009634	
		Gold	7440-57-5	0.0196	0.0000375	
		Cobalt	7440-48-4	0.0001	0.0000002	

		Shell	2.3200	Copper	7440-50-8	65.6795	0.4705178	0.71638
				Lead	7439-92-1	0.0499	0.0003572	
				Cadmium	7440-43-9	0.0073	0.0000526	
				Zinc	7440-66-6	33.6148	0.2408114	
				Iron	7439-89-6	0.0496	0.0003553	
				Tin	7440-31-5	0.5988	0.0042899	
23	MOV	Zinc oxide disc	1.1700	Zinc oxide	13114-13-2	86.0000	0.3107008	0.36128
				Silver	7440-22-4	1.8000	0.0065030	
				Metal oxides (trade secret)	N/A	12.2000	0.0440762	
		Epoxy resin	0.7200	Epoxy resin	25036-25-3	50.0000	0.1111631	0.22233
				Silica fused	60676-86-0	50.0000	0.1111631	
		Tin copper clad steel wire	1.1400	Iron	7439-89-6	55.0000	0.1936090	0.35202
				Copper	7440-50-8	40.0000	0.1408065	
				Tin	7440-31-5	5.0000	0.0176008	
		Soldering bar	0.1350	Tin	7440-31-5	96.5000	0.0402271	0.04169
				Silver	7440-22-4	3.0000	0.0012506	
				Copper	7440-50-8	0.5000	0.0002084	

24	Tool-less terminal	Body	3.0160	PA66	32131-17-2	100.0000	0.9312994	0.93130
		Cover	0.6320	PA66	32131-17-2	100.0000	0.1951529	0.19515
		lever	0.7920	PA66	32131-17-2	100.0000	0.2445587	0.24456
		Solder pin	1.8080	Brass C2680	7440-50-8	96.6700	0.5396947	0.55829
				Copper	7440-50-8	0.6900	0.0038522	
				Semi-Bright Nickel	7440-02-0	1.1500	0.0064203	
				Bright Tin	7440-31-5	1.4900	0.0083185	
		Spring clamp	1.7920	SUS 301	7439-89-6	100.0000	0.5533450	0.55335
Total	323.8487							

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Important remarks:

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