**Mechanical Components**

* R8 bearings: [Sackorange 10 PCS R8-2RS Double Rubber Sealed Roller Ball Bearing 1/2 Inch Bore 1/2 x 1-1/8 x 5/16 Inch ABEC3 Precision Bearing for Electric Motor, Wheels, Home Appliances, Garden Machinery: Amazon.com: Industrial & Scientific](https://www.amazon.com/Sackorange-R8-2RS-Premium-Sealed-Bearing/dp/B07DCQLCS3?crid=2VJL7E6HRTC2P&dib=eyJ2IjoiMSJ9.BN6J7X47aJpFLCEpCNh87kKurMMc4x8A5ic_UaeF_OsCnXzJzdCZ-4P8qLSJF1574CsopvMLD7AsNuhfvaTyWzd869kf-ewH56vuyzH743SIzYXkGE8E7Fg_QR4YKDY61A6Rz3_oWjwkKvGNP7Op5tJu4kwG91f1PAuE1M7aS8G0W1Zf5cSbNjnXPNPQJBwXhGo3tsjrUlCR6K3Lp2pavRHWP-BxnwjH6dekuasqGmE.mqGOvVGrajyzaBccvE-we4D2H2oYLkksZ-qiQZomKK4&dib_tag=se&keywords=r8+bearings&qid=1750974164&sprefix=r8+bearings%2Caps%2C185&sr=8-3)
* R6 bearings: [SACKORANGE 20 PCS R6-2RS Bearings 3/8 ID x 7/8 OD x 9/32 Width Small Bearings Pre-Lubricated and Double Rubber Sealed Miniature Deep Groove Ball Bearing: Amazon.com: Industrial & Scientific](https://www.amazon.com/SACKORANGE-Bearings-Pre-Lubricated-Miniature-Bearing/dp/B0CJHZNNZN?crid=L51LRM46GPCP&dib=eyJ2IjoiMSJ9.e8Yb7w_nlB7pVKbNGmAFPxmHUSFAFjGzWWSIQh7qGZ8KJVrjzByPoItocSwd6IIbI70FyI9rY-T9qOuz61eUa--ZpjKGEaN9Gyrrh6BEZISJ0B7ey0ulvIZB4p0AbnXMi2fBjdDxKc2_Fb6KbSdBhrQ-nVoUZWCaON8BkEHeAK34s6Su0VFMPxwz3vs8uzGvF_UJpkm41KYb68saicTMv8bsWPuvFz9WASUjQgPRsro._SZjgUL4UNBPT8gMdt5vthBn63WWQK6Dpi9P3kMwXL8&dib_tag=se&keywords=R6%2Bbearings&qid=1750974236&sprefix=r6%2Bbearings%2Caps%2C178&sr=8-8&th=1)
* M3 Screws: [Amazon.com: Kadrick Small Metric Screws Suitable for 3D Printer DIY, 400 Pcs M3 Screw and Nut Assortment Hex Socket Head Cap, 12.9 Grade Alloy Steel,Black Zinc Plated : Industrial & Scientific](https://www.amazon.com/Metric-Screws-Suitable-Printer-Assortment/dp/B0B51BFSWZ?crid=2OOTGQ66M2WUS&dib=eyJ2IjoiMSJ9.CEQdt3jF_5PSAgalbfjwHyL7CgAPa3ac1hWKwlL6NW98SRuoTEbkeZYV6fgV3FfNneJ55IARZPzY82BU8el1Ed5uBmiTI1dBTnXZSDDVf8ET-pHHDAlyRVCGk4YF4rng9IdjhZPbJC7oEazb464_0I4QHv5xzqhBd5SCTelrK30u17we0j1HS0kWb3AmEVz5GL033iJTIxIO9VoS4dZ4IpaMvx2J5L3ieIJNJbszmH8.i7XDYX5oHtIsoAVBwlInHgRh0yWibs6VoS-4VvyyMqk&dib_tag=se&keywords=3m%2Bscrews&qid=1750978571&sprefix=3m%2Bscrews%2Caps%2C225&sr=8-8&th=1)
* Wrist pulley belt: [Amazon.com: uxcell 98XL 037 Timing Belt 49 Teeth Rubber Geared Cogged Belt, 0.37" Width, 0.20" Pitch Synchronous Timing Belt : Industrial & Scientific](https://www.amazon.com/uxcell-Timing-Rubber-Geared-Synchronous/dp/B0DDTY82BY?crid=VSI3IYFA9KMN&dib=eyJ2IjoiMSJ9.qz48_UfsMIffBNBpvb-gTfD7YfQfRIP_VyipTQHIwOvXnYnpv626eC0SjuHFKLC_DaO5CIMd0L-AZzYZsEZW4LV22MEo4_gsIPyERgYKQ2jAN4HMU3IbQAsuvK5Ur2zT3OxhXPpZJ4tp1f9vzdFLhTpQKtEPM1-8RZFNjq-8tmEoJk3q87IReC7ouzWAH36m0jRjbcmQWarAnPSAt05HHV0BLYslV0Af3ry12iphPbI.wFz6UNARGmRKE26fhvzJ_KKMjqqePpN7XIQ8X8n9S8c&dib_tag=se&keywords=XL%2Btiming%2Bbelt%2B49%2Bteeth&qid=1750980279&sprefix=xl%2Btiming%2Bbelt%2B49%2Bteeth%2Caps%2C174&sr=8-4&th=1)
* Forearm pulley belt: [Amazon.com: uxcell 2pcs 80XL 037 Timing Belt 40 Teeth Rubber Geared Cogged Belt, 0.37" Width, 0.20" Pitch Mechanical Replacement Belts : Industrial & Scientific](https://www.amazon.com/uxcell-Timing-Rubber-Mechanical-Replacement/dp/B0CN2G4N1Q?crid=3V1QNNOCPNHAH&dib=eyJ2IjoiMSJ9.Z-4YDmjkLAas2oiwX2FthWsG7Eb9ysVSfvKcrHNVsg5teZ31FuPQSk9hy3nqTQiRa06ZSJOhdiiUdxL4IarQf5Ee1tHM1oWMMTkevRVC1fkSpQnIRb6eW8YWFx05OmrKZ9ccZJoj6POFt6Y89Jca2ZI0JN162ri4UbXtNRT2VSZTr21teeAJb4iSpAcLkXxS98iPzFmwQsMDzG-eGio87C4nWRqEK7SNk_J2hCAPBK0.42R1m1rrasUc4GL1yuKdkHEA7Zmr6jXRZ4As52nJ2wo&dib_tag=se&keywords=XL%2Btiming%2Bbelt%2B40%2Bteeth&qid=1750988115&sprefix=xl%2Btiming%2Bbelt%2B40%2Bteeth%2Caps%2C155&sr=8-1&th=1)
* Upper Arm/Base Pulley belt: <https://www.amazon.com/uxcell-Timing-Rubber-Geared-Synchronous/dp/B0DDTW9QG8?crid=1U8NYDQ04IZCC&dib=eyJ2IjoiMSJ9.wYVa_onHvBcAUYW0qSeuE5qSBujUCTFj96bDRgKV4XyBqTRDUWHtz4HT3NUZJoRIRmm6YwDAZx2BDS4usah7Pm1X-9OQ1Z7jGXkDpHThtqDVRLy8AjY_tBmZq_uJTK5gJDTaZpUGVXpIiGUHhc3_JT1DVbZmEMpBQQYu7rvRWWsi-6uVjwoHrNa8xrbxK2u1yXTMXxwnhyOoJEyl133bL7SgBNvg2ViJYcUmwa5Do68.abi650kuuRxAXq2EqzhGiDqUUu0aI7QgpPoce9Bsp4k&dib_tag=se&keywords=XL+timing+belt+35+teeth&qid=1750988224&sprefix=xl+timing+belt+35+teeth%2Caps%2C213&sr=8-1>
* Servo Pulley Belt: [Amazon.com: uxcell 3 Pcs 60XL 037 Timing Belt 30 Teeth Rubber Geared Cogged Belt, 0.37" Width, 0.20" Pitch Synchronous Timing Belt : Industrial & Scientific](https://www.amazon.com/uxcell-Timing-Rubber-Geared-Synchronous/dp/B0DDTW9L1X?crid=1Z9GDPQGJ5QY7&dib=eyJ2IjoiMSJ9.63DJ0cuhirldfkoPRENXt4xPt3E1kfW0VtoPDyE0CsV4JFWqyGHsIUKHuqiQneXHqcLnL2HQuvP50NcYfEKJavewWnu65xRKOPmYHsdSMgguZGVAY6YgiZ6sD_ENvQu87qgGMC5c-6zO82ge5MNA4dKE4jqztC-1RBmqgfMUYamA7zM3I3NsfgtUxkzVc-L-Jih1tDnNfbpd2v2FtO-VmOdFc-LOox8gaiW6pEezac8.jbrY4umahMp2Xqeb9efHFD11VO6HOZHZ8lTKp0AbwZw&dib_tag=se&keywords=XL%2Btiming%2Bbelt%2B30%2Bteeth&qid=1750988793&sprefix=xl%2Btiming%2Bbelt%2B30%2Bteeth%2Caps%2C194&sr=8-1&th=1)

**Motors/Servos/Actuators**

* Selected linear actuator for gripper**:** [Stroke 10mm 40N 0.4 Inch Mini Linear Actuator 12V Force 9lbs Electric Linear Motion Actuators High Speed 0.6"/sec for Robotics,Home Automation with Mounting Brackets: Amazon.com: Industrial & Scientific](https://www.amazon.com/Actuator-Electric-Actuators-Robotics-Automation/dp/B0D17H1HGV?dib=eyJ2IjoiMSJ9.uHmhbAlWv7vxosF34p4KrtA7DGuQIgGvd-IBO6Y78uHcR5_w7clfW5qEhaOztcmfCcefuhyOIwrDP0dOHrxnPf0oBg47OjY_J6OFZpdn2S9HdgWnjDHkpc_7wAJvFKWKTa9m3ShQUA13ucU1gO_1aH2CjLX9793pxKu3xDvJmH15cO0DTRNiNFFMr2PtY1k8KIqev-5yPuitYPVo-tuAHq4PkmTbhpi3e6cJGcMKz9k.Cakz-ByBQ-09Il3X31imCCNcWAotTnDOzaoqjv075H8&dib_tag=se&keywords=Compact%2BDIY%2BMini%2BLinear%2BActuator%2B10MM%2BStroke%2B42%2Blbs%2B188N%2BLoad&qid=1747761757&sr=8-3&th=1)
* Servo for wrist roll: [Amazon.com: HOOYIJ 4 Pack MG90D 9g Digital Micro RC Servo Full Metal Gear 270 Degree Mini Servos Motor Upgraded SG90 for Arduino RC Smart Car Robot Arm 450 Aircraft Boat DIY PWM500-2500（Controllable Angle : Toys & Games](https://www.amazon.com/HOOYIJ-Digital-Upgraded-Aircraft-PWM500-2500%EF%BC%88Controllable/dp/B0D5YBL2JX?crid=LB3BO6P2RA6P&dib=eyJ2IjoiMSJ9.6_kXqIMp-L6aVPPhbAYqJj_VfqgvZ_wkRwXct9Bf-C8oFUbtK8dGCoydytPFR6xTN6eVvFBuZ8eEFh-sPNfU-bCL0Ku2os45r3jtHKVLS_fzpdrgyv1vlP8V4o7oiBfEjmrwQO8QLhuog8kfn8Jkugs0md1YB-fKdiMBM9bACrYZ_Xx08Wq9AyLZwQRvC7IGT1o6dFooVu3Ruol4hYAc_UaiHouJa6FcSxxCTBYI2Ys.z0yFfnTA8w7ziDi-M4QYUBt5d7V-pHZ9KvI2QdvLdew&dib_tag=se&keywords=ELECFREAKS+9g+270%C2%B0+Servo&qid=1747956142&sprefix=elecfreaks+9g+270+servo%2Caps%2C316&sr=8-6)
* Motor for wrist pitch: [Iverntech Nema 11 Stepper Motor 28mm Body 1.8 Stepper Angle 0.8A 2 Phase 4-Lead with 50CM Cable for 3D Printer, CNC Machine and Robotics: Amazon.com: Tools & Home Improvement](https://www.amazon.com/Iverntech-Stepper-Printer-Machine-Robotics/dp/B07PNV7RBW?crid=2W5VSVTZER6PB&dib=eyJ2IjoiMSJ9.3hRNEjd32MJppZsE32yhHtykSdFSfCsI0mKDNRkTu7xsBe52WNtza0auqjeqVtIgFnY6BXMAxNxScuCIv_i5aPXJ6FYqMDaSh-V1fd5AqH8AgNu_L90AWkd0oZPmLrMJ64f-9WUdzsQ59MV0qfFc6GClaiG7zv5N9aDRhk5M3FCI8LPpjTxIbUlaQmSJDzNd9B0-eg3rVGkZt1qMvgdMFUmySBbzeSCl8Z0L1ekRkpA.MG4p19VZHqzu4hRHuY-VmVY3PXo10pRgoUjlFNSgFts&dib_tag=se&keywords=Nema%2B11&qid=1748368089&sprefix=nema%2B11%2Caps%2C210&sr=8-3&th=1)
* Motor for elbow pitch: [Amazon.com: STEPPERONLINE Nema 14 Bipolar Stepper Motor 0.8A 25.5oz.in/18Ncm 3D Printer CNC Machine : Industrial & Scientific](https://www.amazon.com/Bipolar-Stepper-Motor-25-5oz-Printer/dp/B00PQ4Y9B6?crid=2HBH6PEVSSLQF&dib=eyJ2IjoiMSJ9.aURnwxluQrO2TipFYX16IupzotZjNXWY7bCI5yEHtWv_aWunh_mGdvSt7d7rjR548r5fnSkyyWLO9TAbYAILiLZg0QZlVGyQom3raSSH2rFAAkIhc2xhUstQ2zQLG-aNAQao2rdeq-LFjbeP7W8oGgq_4aWDTg7SKtP1XhJYvcCIjUtbJ7l18f15meXRWbdA0hYJa0dbETk0UFc2QIFz_sJLgKtkh1EslEnCFaOHNmU.kilGiduVvzdqQfk40h96AzwT-m32qMvO6v5HhMMwWIA&dib_tag=se&keywords=Nema%2B14%2Bmotor&qid=1750713842&sprefix=nema%2B14%2Bmotor%2Caps%2C214&sr=8-1)
* Motor for shoulder pitch: [STEPPERONLINE Nema 17 Stepper Motor Bipolar 2A 59Ncm(84oz.in) 48mm Body 4-Lead W/ 1m Cable and Connector Compatible with 3D Printer/CNC: Amazon.com: Tools & Home Improvement](https://www.amazon.com/STEPPERONLINE-Stepper-Bipolar-Connector-compatible/dp/B00PNEQKC0?crid=35B3B5TOSXN6W&dib=eyJ2IjoiMSJ9.hN-9QQUUabt-Xybqh_2heY2GPNfYHPQMKSJH70tSBpIiVKM1HeD5pECyie8tGwMWCkbPbedrAtybBTuy1H8Ms7K1npKURY7wHOAlowtY9kHrBdV_iqYMhqKODy5usOOaEiTCWKEMIkXUx9kthvi6VrYtSQWdwAabP3nk3B2OEg01-bkY4K7l9RjdWxb14Azkn-TwtY7MKyuGCykD-4Jg5KO53EvJ8LJiel1kb9Uv48Q.WqbZgA4prMTXaodcUDnjz94pIvMKxEo406nBD6tU3EQ&dib_tag=se&keywords=Nema+17+motor&qid=1748453567&sprefix=nema+17+motor%2Caps%2C147&sr=8-3)
* Motor for shoulder roll: [STEPPERONLINE Nema 17 Stepper Motor Bipolar 2A 59Ncm(84oz.in) 48mm Body 4-Lead W/ 1m Cable and Connector Compatible with 3D Printer/CNC: Amazon.com: Tools & Home Improvement](https://www.amazon.com/STEPPERONLINE-Stepper-Bipolar-Connector-compatible/dp/B00PNEQKC0?crid=35B3B5TOSXN6W&dib=eyJ2IjoiMSJ9.hN-9QQUUabt-Xybqh_2heY2GPNfYHPQMKSJH70tSBpIiVKM1HeD5pECyie8tGwMWCkbPbedrAtybBTuy1H8Ms7K1npKURY7wHOAlowtY9kHrBdV_iqYMhqKODy5usOOaEiTCWKEMIkXUx9kthvi6VrYtSQWdwAabP3nk3B2OEg01-bkY4K7l9RjdWxb14Azkn-TwtY7MKyuGCykD-4Jg5KO53EvJ8LJiel1kb9Uv48Q.WqbZgA4prMTXaodcUDnjz94pIvMKxEo406nBD6tU3EQ&dib_tag=se&keywords=Nema+17+motor&qid=1748453567&sprefix=nema+17+motor%2Caps%2C147&sr=8-3)

**Electrical Components**

* Actuator Driver: [FTVOGUE DRV8871 H-Bridge DC Motor Driver Board Drive Controller Module PWM Control Module DC6.5-45V 3.6A,Module: Amazon.com: Industrial & Scientific](https://www.amazon.com/DRV8871-H-Bridge-Controller-Control-DC6-5-45V/dp/B08VGMYTTT?crid=1OIMJ13MN5FSK&dib=eyJ2IjoiMSJ9.lFRdBUYH2DstxaERYOOGE-qIxGqy_klYYbI46W1l93ElfXJ1ATaaC0SMsGlNYMG9JvAc2xKbt_nzTyVzEg5t9jFCnxzoW6DBUz2ss4cO_QpdkC8oipjdxfNLu-Fl7PurDZcwWU95YTFFOIiSls-dODK2B_YZdTLS9V5sUaamN9393PJC-1ZknDAi3Q5CrvwK6QKFkUUv9BNsGd2-0EZzhx1k7sMyKHzXoCV6X1ogbpw.kCZvTPRvXGIDwgtYpag6lcxcQxi-ymtxuY2pFLAXXsw&dib_tag=se&keywords=DRV8871&qid=1751307470&sprefix=drv8871%2Caps%2C305&sr=8-8)
* Nema 11/14 Driver: [Amazon.com: BIGTREETECH TMC2209 V1.3 UART Stepper Motor Driver 2.8A Peak Stepstick Silent Driver for Manta M8P, Octopus V1.1, Octopus Pro, SKR 3, SKR V1.4 Turbo, SKR Pro V1.2 3D Printer Control Board (2 PCS) : Industrial & Scientific](https://www.amazon.com/BIGTREETECH-TMC2209-Stepper-Printer-Motherboard/dp/B08SMDY3SQ?crid=V791BXLD0RT4&dib=eyJ2IjoiMSJ9.GZ0y9vbuz5BknwSaU2T--d1EXWsylU5uSknex8xb-zQ1kTYgHlhhSzPBCHLbmJPxpU4Z4X3taqfKGRTkto_m5RFR_R-ZIfkJZ7TV6FcyAp82TukGPXcMF1KSQrhAZRvb-HHec5w72dWfVTAzoBQgB8ZqEL38p3-z1dHmG8ybrlO_pGzu3ARXyyl930mKyK6Rhx8-9ZvgW1nT3g0vEkPZItwurYcOiNqykkX160kx5rc.DTxk62GQnn38bTzk9mhNGJbnlaRpxyRernDRr0YnYrk&dib_tag=se&keywords=TMC2208%2F2209&qid=1750886967&sprefix=tmc2208%2F2209%2Caps%2C536&sr=8-1&th=1)
* Nema 17 (X2) Driver: [WWZMDiB TB6600 Upgraded Stepper Motor Driver 9-42V, 0.5-4.0A, 32 Subdivision Compatible with Nema 14 16 17 23 2-Phase Stepper Motor Controller - Amazon.com](https://www.amazon.com/WWZMDiB-Upgraded-Subdivision-Compatible-Controller/dp/B0DPMK994M?crid=3HWJWDOP2BC15&dib=eyJ2IjoiMSJ9.2IL_N_VsWTaMvDn4QNWCRsI8GRdpCHp9J4w1TihoJdQg0mN5GqzrHpDJgsHyDW0AyMJFVx2GRWU51adXum8DpYNcDiZaNfx9j7py3KeXQKujtTfI-tqp5DNcGEPzSt6e9nrPJ7WU7d7CSI4dxmwl0Y9HXLjMqGxHAKhsxIrJIMljigXYMbXcYg_ZVmMMCcaIUmsnriUw4VBcaUaRXzEKmG96YsoQeh7I5QWvynuDRXo.bj2uTOmSOLdwjwRPtclv0RcmASpxwkaKbWBYb9pKNp4&dib_tag=se&keywords=Nema+14+driver&qid=1748455286&sprefix=nema+14+driver%2Caps%2C144&sr=8-3)
* Terminal block: [Terminal Block,2 Pack 8 Circuits 20-30A 200v-450v Dual Row Screw Terminals Strip +32 PCS Heat Shrink Wire Connectors: Amazon.com: Industrial & Scientific](https://www.amazon.com/Terminal-Circuits-200v-450v-Terminals-Connectors/dp/B09VSWRQ66?crid=IUXAXA6UNWDJ&dib=eyJ2IjoiMSJ9.ho-fAVOYCkeTSUCeRjZLVOuYyI8tb99Y7x3nXMOSac00PJKukb-nfgvPxcMUgps5QljJt1RjHayFis65yqH5cBQar9ds1TCH-6l5I6riNrt6Fs2Tq33RgOrgi37qJJ0G3XhyTo9aueYOtr0BxAXajiFpGPhRIctcArk96B2RGRtep_MjTWPZpodc-yho76Rec0bY3y9RAtr9udo8-eLlNgpRVuib5VBoTxt1XHbBBTs.aUYYqUbOr_aGCG5ut1SqruANX0BAJINvqG5LlM46LXc&dib_tag=se&keywords=terminal%2Bblock&qid=1750973602&sprefix=terminal%2Bblock%2Caps%2C203&sr=8-2&th=1)
* Power Supply: [ANYTITI LED Driver,LED Power Supply IP67 Waterproof Output 150W DC12V 12.5A 3-Prong Plug 4.5feet - Amazon.com](https://www.amazon.com/ANYTITI-Driver-Waterproof-3-Prong-4-5feet/dp/B08Q2TWYRJ?crid=F11T8ZGXU8CU&dib=eyJ2IjoiMSJ9.wp-ErxrYQtQq0K-5JBLbpogRwLqpKme_hvGXdHLPebHVoIQmA6VM_0ZcavWMe_mCGAnrsoxyeETARY8a2B_K3knwj9oZcfnFwEbyCSlL8PDwm06ibNZ-x3K4v8mIkerqTDBvOl5LIKW9VZDVxWuokLsQZC-hbu6DrggJLkc95OVJ-FxSMUUULx7ZimXuLtYvD_6ZHQfmRNvZPRqlha2NsehPdN1_oSfSgb3Dw00f-1U.T3R1SQzSvog2HOsKbzPrw_SNgLmJkj6OwFEd35pSgBs&dib_tag=se&keywords=12%2Bvolt%2B13%2Bamp%2Bpower%2Bsupply&qid=1751308185&sprefix=12%2Bvolt%2B13%2Bamp%2Bpower%2Bsupply%2Caps%2C181&sr=8-4&xpid=UgPYi2kQ1KDgD&th=1)
* Power Supply inline fuse holder: [Amazon.com: Inline Fuse Holder 12V 2 Pack, 14 AWG Waterproof Fuse Holder 11.8 Inch, in Line Fuses Holders 12V with 2 Pcs Standard Car Fuses 20A Blade Holders for Automotive, Marine by XIOGZAXI : Automotive](https://www.amazon.com/Inline-Fuse-Holder-Waterproof-XIOGZAXI/dp/B0C9V8T6ZG?crid=27VY166UCIR78&dib=eyJ2IjoiMSJ9.xDWlqxkkoBgm7Om8lp3f1UDnoqJAyOcw7Kbwg2WkT94gFucrb02UYzHWv_7OmmDVuBjlzKoKd3bmWDoMwtQAbvEF-6mp5T-M-qXHMcUD4wq6-BC6pj6YK7DAFNniD6j2VPPPZGTchisb1jLGDRbZiyL8NlY78xcd54ksiZzwenBs5WfZQNJUSphHdLX4UM-E30_ys4oqNxZQQRPIWJEj0lg69IKyAnJQQbjljYMWD0I.fDoQlzH5xlATgI2zXF1Iu9PVnkojtO5ttlJc7Xl9hfA&dib_tag=se&keywords=inline%2Bfuse%2Bholder%2B14%2Bawg&qid=1751307906&sprefix=inline%2Bfuse%2Bholder%2B14%2Bawg%2Caps%2C150&sr=8-3&th=1)
* 14 awg wire: [Amazon.com: BNTECHGO 14 Gauge Silicone Wire 10 ft red and 10 ft Black Flexible 14 AWG Stranded Tinned Copper Wire : Tools & Home Improvement](https://www.amazon.com/BNTECHGO-Silicone-Flexible-Strands-Stranded/dp/B017TFR6SM?crid=3GGIOCPA3V7OG&dib=eyJ2IjoiMSJ9.7--FPf29RCWteIL_aScD8P9Q15orRx4XU83CnFDUYbBtV_ifcUpzD1O-Q47rxoek_fdl6P5nhFfYfsHSZT-Q4XdJq7f-zBjgt_Y2U8RU-YFMXhG4FLL4yBjFRxciZTbgfIf2FvaNaO-LORgVSJly3o3N3fF97PS_MkeJp8yL1t6txYWt9hhG2Wy1IMJwhsTlSQA0K_OxfTYOhQ0RAfi336tv71-GtyiR6Y7jzLyBeYDS_oumGCbXvBlSTWqJ9U-z_wErtk7PrT9k5mWkgM0mHAowF-juPjcJh6ZlVm4Pyko.OVF-kkJKTsDa32-tv_FgpXfklpGaWA2leR4VA2j_zpo&dib_tag=se&keywords=14%2Bawg%2Bwire&qid=1750974024&sprefix=14%2Bawg%2Bwire%2Caps%2C228&sr=8-33&th=1)
* 18 awg wire: [Amazon.com: 18 Gauge Wire (2-Pack Red/Black Each 25 FT), 18 AWG Automotive Wire, CCA, Speaker Audio Cable, Flexible Low Voltage Security Alarm Hook Up Control Cable, Stranded Electrical Wires for DIY DC : Electronics](https://www.amazon.com/Automotive-Flexible-Security-Stranded-Electrical/dp/B0CKR35SX5?crid=23QCA7590745V&dib=eyJ2IjoiMSJ9._JjEeUEhHd7_4jo1C4CXVIr3rvFzOVINpljsD-A5WO7HYsbZLUNh9sEZ__IyF--aKaQ5HqecwNCl2CjfOyJWHTFpj1ETxEMUZLM6EsXtBx0Gp_w2zDVdt_yXgPIqU_iviQgKKWS4B4WBz44HVk8hqN9y1jGTsbgFIOw3l4FjbfX2DF2MHt6jF2O3ECkFt1D9KjwnlK6GdYCBaPLWvCOFYs4rSPHf3vlcTqh1vT2BIaNwhkJnqrRq3UCzmq4UEg9zqccIn5yEhlxjL4uh2YPSwePYzujcE3-5vVUIkTiPf_k.YEBgHMkrECvrUec9uLGoQ0XjJ00KiEPEiwAqyxa_4yo&dib_tag=se&keywords=18%2Bawg%2Bwire&qid=1750974093&sprefix=18%2Bawg%2Bwire%2Caps%2C191&sr=8-5&th=1)
* 22 awg wire: [Fermerry 22 AWG Stranded Wire Spool 10ft Each 6 Colors Flexible 22 Gauge Silicone Hook up Wire Kit Electrical Tinned Copper Wire: Amazon.com: Tools & Home Improvement](https://www.amazon.com/Fermerry-Stranded-Electric-Tinned-Copper/dp/B089CQHRDT?crid=D2MXFJQJ26BA&dib=eyJ2IjoiMSJ9.nhyepXj99xT6gmjDRY_uvgefn869QyDBBYxxfc_QR1b_3Tvnvx-TRszY2dGtfr4nA7-PBegIJiFls4AnnnV9YCQG3Ifwivd4lIoCC6cn243jZJlqP9PRGg4M4hwWivLT41M6mxRop0a5fnKDhn8Yvpzq7utHb1a52G8DLR64Hlt5mXgtT2VOBMksjNACgwwLOFm8yjw4o0vIXDG8jBMmxZOdBrhadEiCgDgiiKXLfX-9_A3B7EnD7rCvu2-eJo1C3VySK_Cz9Gg15_mwtiC6vm90bFb66d1tmpS8mYvc-L4.jnfS8azTBPYF0GCytwp80evTb0AUGVbDH6WOg6jnifs&dib_tag=se&keywords=22%2Bawg%2Bwire&qid=1750974132&sprefix=22%2Bawg%2Bwire%2Caps%2C190&sr=8-8&th=1)
* Pi 3 model b 1.2: [Amazon.com: New Raspberry Pi 3 Model B+ Board (3B+) Raspberry PI 3B+ (1GB) (3B Plus) : Electronics](https://www.amazon.com/Raspberry-Pi-Model-Board-Plus/dp/B0BNJPL4MW?adgrpid=1344703285782925&dib=eyJ2IjoiMSJ9.ts-szYXG-sPoTLfkTumnCz_n8ABlDpNz9sDHqFE7B4ViSmtxXABtDCmFZ4nFHX1jwMUS7npT5dGhUlITeFafb-J1MRbCB3nK7Q4CYbS3XjF7R2y2zUouN2lddWeqikZn7Yoa6Gnk-D9lVK7L8fA_gCqdQi3rwWcAeI5Ib5ulJ_3tdKKaVls76PDirRHfoMxy5taRGa8RfEoO9l-BZQ0CLtRvhCGa9WqPzCc41VBjYy4.lF8D8JLMMaHbF5LzJntk7E-LZPSOQFexBRkXmClklvs&dib_tag=se&hvadid=84044170222591&hvbmt=be&hvdev=c&hvlocphy=78223&hvnetw=o&hvqmt=e&hvtargid=kwd-84044302276139%3Aloc-190&hydadcr=18002_13443495&keywords=pi+3+model+b&mcid=c2e3bb1b3b6d36e5a253c156ef41cc53&qid=1758248847&sr=8-3)
* Buck Converter: