













<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
<b>Bag #1</b>						
<input checked="" type="checkbox"/>	<b>Assorted Terminal Bag</b> ~5 x 10-12 AWG Disconnect F (PN 80610531362) ~2 x 10-12 AWG Parallel Connector (PN 80601385836) ~2 x 14-16 AWG Parallel Connector (PN 80601383724) ~20 x 10-12 AWG Quick Disconnect F (80610531214) ~20 x 14-16 AWG Quick Disconnect F (80601391719) ~20 x 10-12 AWG Quick Disconnect M (80610057806) ~20 x 14-16 AWG Quick Disconnect M (80610056071) ~10 x 10-12 AWG Ring Terminal (PN 80610048540) ~5 x 14-16 AWG Ring Terminal (PN 80610040737) ~5 x 18-22 AWG Ring Terminal (PN 80610035307)	3M	TERMINAL_BAG-2020	1	No Specific Source	
<input type="checkbox"/>	<b>Wire</b> 06 AWG, Black, 1½ ft. length	Belden	06AWGB-1.5	1	No Specific Source	
<input type="checkbox"/>	<b>Wire</b> 06 AWG, Red, 1½ ft. length	Belden	06AWGR-1.5	1	No Specific Source	
<input type="checkbox"/>	<b>Wire Bundle</b> 12 AWG, Red & Black, 15 ft. length each	Belden	12AWGB-15 12AWGR-15	1	No Specific Source	

<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
<input type="checkbox"/>	<b>Wire Bundle</b> 18 AWG, Red & Black, 10 ft. length each	Belden	18AWGB-10 18AWGR-10	1	No Specific Source	
<input type="checkbox"/>	<b>UNIWRAP Cable Ties</b> 4 in., 18 lb, white, bag of 100	BURNDY LLC	CT18075C	1	No Specific Source	
<input type="checkbox"/>	<b>UNIWRAP Cable Ties</b> 7.5 in., 50 lb, white, bag of 100	BURNDY LLC	CT50175C	1	No Specific Source	
<b>Bag #3</b>						
<input type="checkbox"/>	<b>Armabot Kit</b> ½ in. hex hub half (2) nylock nuts (6) button head screws (6) rubber tubing stickers	Armabot	A0069-kit	1	<a href="https://www.armabot.com/">https://www.armabot.com/</a>	
<input type="checkbox"/>	<b>NI LabVIEW USB</b>	NI	2021LabVIEW	1	Not available, content available at <a href="http://www.ni.com/first">www.ni.com/first</a>	

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<input type="checkbox"/>	<b>Shaft Collar</b> 3/8 in.	Ruland Manufacturing Co., Inc.	CL-6-A	1	<a href="http://www.ruland.com/first">www.ruland.com/first</a>	
<input type="checkbox"/>	<b>Circuit Breaker</b> 20A	Snap Action, Inc.	VB3-A20-F57	2	<a href="http://www.snapaction.net">www.snapaction.net</a> or <a href="http://www.andymark.com">www.andymark.com</a>	
<input type="checkbox"/>	<b>Circuit Breaker</b> 30A	Snap Action, Inc.	VB3-A30-F57	2	<a href="http://www.snapaction.net">www.snapaction.net</a> or <a href="http://www.andymark.com">www.andymark.com</a>	
<input type="checkbox"/>	<b>Circuit Breaker</b> 40A	Snap Action, Inc.	MX5-A-40	6	<a href="http://www.snapaction.net">www.snapaction.net</a> or <a href="http://www.andymark.com">www.andymark.com</a>	
<input type="checkbox"/>	<b>Power cable, for radio</b>	Epec	PwrCblRdo	1	No Specific Source	
<input type="checkbox"/>	<b>USB 2.0 A to B Cable</b> Shielded - 1.5 meters	CUI	CBL-UA-UB-1	1	<a href="http://www.parts-express.com">www.parts-express.com</a>	

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<input type="checkbox"/>	<b>High Performance Ultrasonic Rangefinder</b>	MaxBotix Inc.	MB1013-000	1	<a href="http://www.Maxbotix.com/firstrobotics">www.Maxbotix.com/firstrobotics</a>	 Photo: MaxBotix
<input type="checkbox"/>	<b>Minature Basic Switch</b>	Honewell	V7-2B17D8-048	4	No Specific Source	 Photo: Digi-Key Electronics
<input type="checkbox"/>	<b>Vulcan Springs Packet</b> 1 Series H (PN SH6G25), 1 Series L (PN SL6G25), voucher info page	Vulcan Spring & Mfg. Co.	SH6G25 SL6G25	1	<a href="http://info.vulcanspring.com/first-robotics-competition">http://info.vulcanspring.com/first-robotics-competition</a>	
<b>Bag #4</b>						
<input type="checkbox"/>	<b>Grip Material</b> 18 in. length	3M	70006701497 or 300LSE	1	No Specific Source	
<input type="checkbox"/>	<b>Electrical Tape</b> "Super 33+," Vinyl, Black, 3/4 in x 66 ft.	3M	34-8720-3265-0	1	No Specific Source	

<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
<input type="checkbox"/>	<b>Electrical Tape</b> "35 Red," Vinyl, Red, 3/4 in x 66 ft.	3M	38-9019-3978-5	1	No Specific Source	
<input type="checkbox"/>	<b>CULUG Copper Compression Terminal</b> 6 AWG, bag of 8	BURNDY LLC	YAZV6CTC14FX	1	<a href="http://www.andymark.com">www.andymark.com</a>	
<input type="checkbox"/>	<b>Dual Lock Reclosable Fastener</b> 12 ft.	3M	SJ3540 or 70070521052	1	No Specific Source	
<input type="checkbox"/>	<b>Hook &amp; Loop Tape Coil</b> 15 ft. lengths, SJ3571 (loop) & SJ3572 (hook), black	3M	70070428423- 15ft	1	No Specific Source	
<b>Bag #6</b>						
	<b>Bumpon</b> SJ5003, Sheet of 56	3M	70070079671	1	No Specific Source	

<input checked="" type="checkbox"/>	Item Description	Supplier	Part Number	Qty	Where to get more?	Photo
	<b>Bumpon</b> SJ5009, Sheet of 24	3M	70070079754	1	No Specific Source	
	<b>Heat Shrink</b> Thin-Wall Tubing, 1/8 in., 4 ft. length, FP301	3M	80611600893	2	No Specific Source	
<input checked="" type="checkbox"/>	<b>Heat Shrink</b> Thin-Wall Tubing, 1/4 in., 4 ft. length, FP301	3M	80611600968	2	No Specific Source	
	<b>Heat Shrink</b> Thin-Wall Tubing, 1/2 in., 4 ft. length, FP301	3M	80611601206	2	No Specific Source	
	<b>Instant Adhesive</b> Scotch-Weld	3M	CA8	1	No Specific Source	
	<b>Plastic &amp; Rubber Instant Adhesive</b> Scotch-Weld	3M	PR100	1	No Specific Source	

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	<b>igus Bag</b>					
	<b>e-chain® cable carrier</b> 1 meter	igus Inc.	05-4-038-0	1	<a href="http://www.igus.com">www.igus.com</a>	 <small>Photo: igus</small>
	<b>e-chain® cable carrier mounting bracket set</b>	igus Inc.	050-20-12	1	<a href="http://www.igus.com">www.igus.com</a>	
	<b>chainflex cable</b> 20 AWG, 2 wire	igus Inc.	CF9-05-02	1	<a href="http://www.igus.com">www.igus.com</a>	
	<b>iglide® tribo-tape</b> 12 in. strip	igus Inc.	A160T5100S305	1	<a href="http://www.igus.com">www.igus.com</a>	
	<b>drylin® N linear guide system</b> With 24 in. rail & 2 carriages	igus Inc.	NK02-40-2-610	1	<a href="http://www.igus.com">www.igus.com</a>	 <small>Photo: igus</small>







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	iglide® J plain bearing	igus Inc.	JSI-1012-08	2	<a href="http://www.igus.com">www.igus.com</a>	
						Photo: igus
	iglide® J plain bearing w/ flange	igus Inc.	JFI-1012-08	2	<a href="http://www.igus.com">www.igus.com</a>	
	iglide® M250 plain bearing	igus Inc.	MTI-10	2	<a href="http://www.igus.com">www.igus.com</a>	
						Photo: igus
	igubal® rod end	igus Inc.	EBRI-10R	2	<a href="http://www.igus.com">www.igus.com</a>	
	igubal® flange	igus Inc.	EFOI-10R	2	<a href="http://www.igus.com">www.igus.com</a>	
	drylin® S aluminum shafting 24 in.	igus Inc.	AWI-10	2	<a href="http://www.igus.com">www.igus.com</a>	
						Photo: igus














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	<b>iglide® MCI bearing</b>	igus Inc.	MCI-06-01	4	<a href="http://www.igus.com">www.igus.com</a>	 Photo: igus
<b>REV Robotics Kit</b>						
	<b>2-Wire Jumper Cable</b> 36 in., F/F	REV Robotics	REV-11-1134	2	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
<input checked="" type="checkbox"/>	<b>CAN Wire</b> 22 AWG, Green/Yellow Twist, 36 in.	REV Robotics	REV-11-1149	2	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>PWM Y Cable</b> 22 AWG, 12 in., F/MM	REV Robotics	REV-11-1131	4	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>PWM Cable</b> 22 AWG, 36 in., F/M	REV Robotics	REV-11-1130	8	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>POE Injector Cable</b>	REV Robotics	REV-11-1210	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	

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	<b>Color Sensor</b>	REV Robotics	REV-31-1557	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
	<b>Color Sensor Cable</b> 4-pin JST to FRC I2C, 100cm	REV Robotics	REV-11-1729	1	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	
<b>Loose</b>						
	<b>Main Circuit Breaker</b> 120A	Eaton - Bussmann Division	CB185-120	1	<a href="http://www.eaton.com/bussmannseries">www.eaton.com/bussmannseries</a>	
	<b>Robot Radio</b> Dual Band 1.17 Gbps Access Point	Open Mesh Networks	OM5P-AC	1	<a href="http://www.andymark.com">www.andymark.com</a>	
	<b>775 Pro Motor</b>	Innovation First International	217-3351	1	<a href="http://www.vexpro.com">www.vexpro.com</a>	

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	<b>MiniCIM Motor</b>	Innovation First International	217-3371	1	<a href="http://www.vexpro.com">www.vexpro.com</a>	
	<b>Motor Controller</b> SPARK Max	REV Robotics	REV-11-2158	4	<a href="http://www.revrobotics.com">www.revrobotics.com</a>	 Photo: REV Robotics
<input checked="" type="checkbox"/>	<b>Foam Gripper Kit</b> 2 rollers/kit	John Deere	M156751	1	Not Available	
	<b>Battery</b> Sealed Lead Acid, 12V, 18Ah, Bolt Fastened, Rechargeable	MK Battery	ES17-12	1	<a href="http://www.mkbattery.com">www.mkbattery.com</a>	
	<b>Robot Signal Light</b> (i.e. Panel Signal Device)	Rockwell Automation	855PB-B12ME522	2	No Specific Source	
	<b>Cardboard VR Viewer</b> (colors vary)	Siemens	cardboardvr	1	Not Available	

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	<b>Ethernet cable</b> colors & lengths vary	Various	ethernetcable	1	No Specific Source	
	<b>Color Swatch for Control Panel</b>	TurnOne Graphics	ColorSample	1	To be determined.	
	<b>Battery Connector</b> SB50-FR (housing) and 5900-BK (contacts)	Anderson Power Products	2021 CONNECTOR	3	<a href="http://www.andersonpower.com">http://www.andersonpower.com</a> (housing & contacts) <a href="http://www.andymark.com">http://www.andymark.com</a> (connector assembly)	
	<b>Air Volume Tank</b> 32 cu. in., Black Plastic	Clippard Instrument Laboratory	AVT-PP-35	1	<a href="http://www.clippard.com">www.clippard.com</a>	
	<b>Gamepad</b> F310 Logitech	Connection	940-000110	1	No Specific Source	
	<b>USB 2.0 to 10/100 Mbps Ethernet Network Adapter Dongle</b>	Connection	USB2100	1	No Specific Source	

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	Pneumatic Control Module	CTR Electronics	14-806777 or CTRE_PCM_1	1	<a href="http://www.ctr-electronics.com">www.ctr-electronics.com</a>	
	Power Distribution Panel	CTR Electronics	14-806880 or CTRE_PDP_1	1	<a href="http://www.ctr-electronics.com">www.ctr-electronics.com</a>	
	Voltage Regulator Module	CTR Electronics	14-868277 or CTRE_VRM_1	1	<a href="http://www.ctr-electronics.com">www.ctr-electronics.com</a>	
	PSoC 5LP Prototyping Kit	Cypress	CY8CKIT-059	1	<a href="http://www.cypress.com/forum/first-robotics-competition">http://www.cypress.com/forum/first-robotics-competition</a> or <a href="http://www.digikey.com">www.digikey.com</a>	
	Power (Battery) Charger	HK TENGSHUN POWER SUPPLY CO LIMITED	FY1205000	1	No Specific Source	
	NI roboRIO for FRC	NI	783582-01	1	<a href="http://www.andymark.com">www.andymark.com</a>	

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	<b>Red Bumper Material</b>	RoboPromo	RP-2016-R	1	<a href="http://www.robopromo.com">www.robopromo.com</a>	
	<b>Blue Bumper Material</b>	RoboPromo	RP-2016-B	1	<a href="http://www.robopromo.com">www.robopromo.com</a>	
	<b>Compressor</b> Model 90C	Viair	00090	1	No Specific Source	
	<b>Camera</b> Microsoft Lifecam	Microsoft	HD-3000	1	No Specific Source	 Photo: Microsoft
	<b>navX-MXP Navigation Sensor</b> 9-axis sensor (gyro, accelerometer, magnetometer) intelligent motion processor roboRIO expansion I/O	Kauai Labs	navX-MXP	1	<a href="http://www.kauailabs.com">www.kauailabs.com</a>	 Photo: Kauai Labs