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Cable Assemblies

days _____days Opportunities will be postedfor 30 days unless specified

Item to be Scouted

Please describe the item application/ the end use of item.* Provide the item number if applicable: (N95 Mask vs Protective Mask).

Cable Assemblies used in robotics applications.

2021	_115	
		Number (NIST MEP use)
Scouting	g custome	r/product <u>NAICS Code</u> , if known
Ξ	1.	a. Type of supplier being sought*
ЮH	Sub	Manufacturer Contract Manufacturer Distributor
NIC	opli	□ Other
Ă	er Ir	b. Reason for scouting submission*
INF	Supplier Information	□ 2 nd Supplier □ Price □ Re-shore □ Past supplier no longer available
ORI	ma	New Product Startup
MAT	tior	Other
ECHNICAL INFORMATION	1 2. Summary Performance	a. Describe the manufacturing processes (elaborate to provide as much detail as possible).*
÷		see additional comments section
	anco	b. Provide dimensions / size / tolerances / performance specifications for the item.*
	0	10AWG to 32AWG crimps and splicing. All dimensions for heat shrink, cable lengths, and other physical
	of Technical Sp Requirements	dimensions will be provided in the drawing. Quality inspections must be made per the dimensions in the
	echnical quireme	drawing.
	cal ner	c. List required materials needed to make the product, including materials of product components.*
	Specifications and nts:	Please reference attached prints and pictures. All other information will be provided upon request during the quoting process.
	ations	
	and	

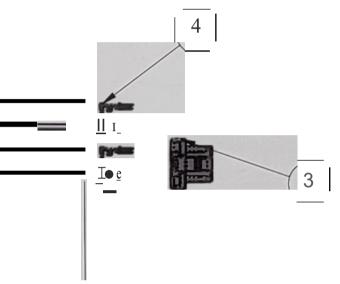


		d. Are there applicable certification requirements?* Yes No Please explain
	2 S	
	Summary	
	ary of T	e. Are there applicable regulations?* Yes INO Please explain
	of Technical Specifications Requirements cont:	
	hnical Specifica Requirements (f. Are there any other standards, requirements, etc.?* 🗌 Yes 🛛 🔳 No Please explain
	and Pe	g. Additional Comments: Is there other information that would impact the item's performance or usefulness? Please explain.
	Performance	Manufacturing processes: Design cable assemblies that are simple single conductor cables with crimps, to 20+ conductor, varying gauges size, and integrated with several cots and machined components with varying heat shrink and sheathing needs.
B	שָּ	3a. Estimated potential business volume (i.e., # Units Per Day, Month, Year) *:
BUSINESS INFORMATION	3. Volume Pricing	Prototyping of 1-5 pieces per job Production of 1-25+ pieces per job various complexities
	and	b. Estimated target price / unit cost information (flexible and negotiable not accepted) *:
		will vary based upon complexity and turnaround time
	4.	a. When is it needed by? (Immediate, 30 Days, 6 months, etc.)*
ON:	Delivery Requirements	Company has both short term and medium-term requirements. Suppliers need to be prepared to quote and provide available capacity for 3, 5, 10, 15 and 20+ day turnaround (delivery to customer). b. Describe packaging requirements (i.e., individually/group packaging) *
	γR	b. Describe packaging requirements (i.e., individually/group packaging)
	equire	At a minimum each item to be labeled with part number and revision number. Orders to be shipped complete and no short shipments will be allowed unless authorized by customer in advance.
	mei	c. Where will this item be shipped?*
	nts:	Pittsburgh, PA
	ი ა	Is there other information you would like to include?
	5. Addition: Comments:	
	Additiona mments:	
	nal s:	

Photos or diagrams of the item (helpful but not required).

ITEM NO.	MANUFACTURER	PART NUMBER	DESCRIPTION QTY.		REV.	ECN	
1	APEM	IPR1SAD2LOG	Push Button Laich Switch 1		1	N/A	
2	RE2MCOTS		24 AWG Wire 4		2	N/A	CONTACT FROM
	Molex	502578-0400 502579-1000	Clik Mole Housing, 4 Pin Single Row, 1.5mm Pilch 1		3	N/A	UPDATED NOTE UPDATED HEA
5	RE2MCOTS	502579-1000	Clik-Iviole Crimp Terminal, 1.5mm Plich, 20-28 AWG, Gold Plated		4	N/A	CHANGED WI
						3	
			- (6.00 , (6.00)	-	PIN OUT		
				ITEMO	ITEMG_)	τw	/IST
				CONTACTA	PIN 1		
				CONTACTB	PIN 2	2 TWIS	TS/INCH
				LONG LEAD -t	PIN 3		
				SHORTLEAD -	PIN 4	2 TWIS	TS/INCH
	SOLDERITEM (I USEMOLEX CRIN ALL CABLE ASSE INSPECTED ACC	MBLIES AND HARNES	UUGS OF ITEM0 WITH MODULAR CRIMP HEAD 63819-4670 SES SHALL BE MANUFACTURED AND MA-A-620B, CLASS 2 DEDICATED SERVICE	MATERIAL N/A CONDITION N/A FINISH N/A		FRACTIC DECIMA DECIMAL DECIMAL ANGLES BREAK AL	LI SHARP EDGES

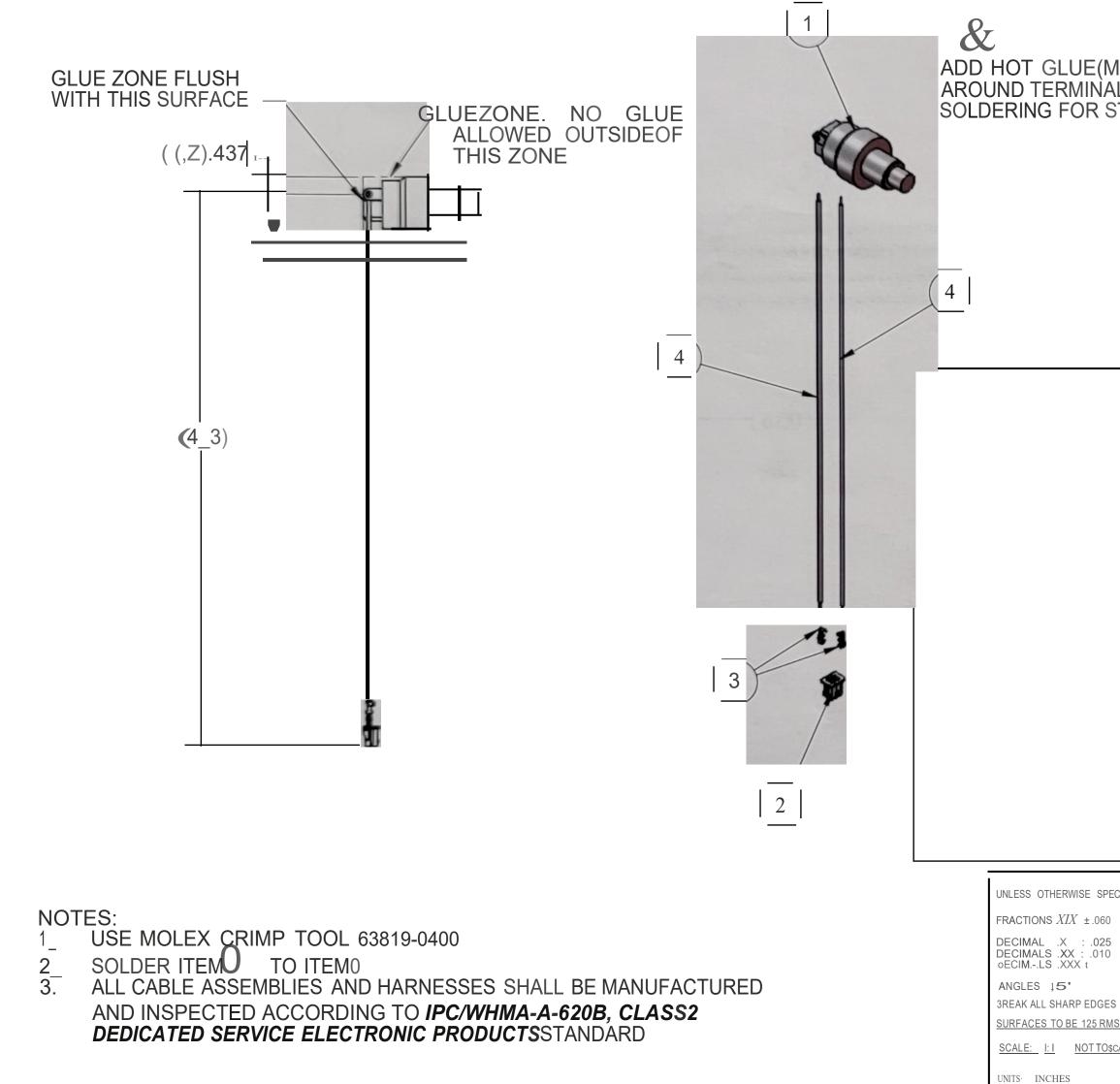
REV.	ECN	DESCRIPTION	DATE	REV BY	CHECKED BY
1	N/A	INITIAL RELEASE	8/26/15	JG	MGC
2	N/A	CONTACT FROM TIN TO GOLD PLATED; ADDED	4/28/2016	JJG	
3	N/A	UPDATED NOTE S, UPDATED PINOUT TABLE, UPDATED HEAT SHRINK MATERIAL IN BOM	8/23/2016	JJG	FFC
4	N/A	CHANGED WIRE LENGTH FROM 2.5" TO 6"	7/12/2019	CD	JJG





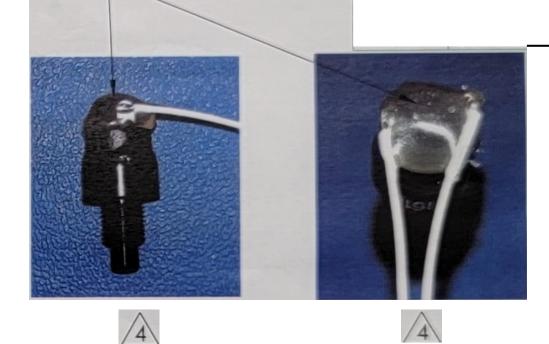
_			
ALL DIMENSIONS ARE ININCHES UNLESS OTHERWISE SPECIFIED:			
FRACTIONSX/X ! 1/16"			
 DECIMAL .x ! .025 DECIMAL .xx ± .010 DECIMAL .XXX ! .005 ANGLES !.SO BREAK ALL SHARP EDGES	Pushbutto	n Switch with Conne	ector
SURFACES TO BE 63 RMS MAX.	CREATED DATE: oan6/2015	DESIGNED BY:	SHEET SCALE I :I
	ORAWING SIZE "B" SHEET OF	PART NO.	RE'

ITEM NO.	MANUFACTURER	PART NUMBER	DESCRIPTION	MATERIAL	QTY.		
Ι	ΟΤΤΟ	P7-57I 122	Sealed Subminiature Pushbutton Switch	N/A	1		
2	Molex	51021-0200	PicoBlade, 2Pin, CrimpHousing	Thermoplastic Resin	1		
3	Molex	500798100	Crimp Terminal	N/A Alphowire	2		
4			28 AWG Wire 2, Teflon	6820-WHOOS	2		



Τ	REV	DESCRIPTION	DATE	REV BY	APPROVED
ſ	1	INITIAL RELEASE	8/26/15	JG	MGC
ſ	2	ADD IPC STANDARD NOTE	6/17/2016	JJG	FFC
	3	ORIENTATION	8/5/2016	JJG	FFC
	4	ADD PICTURES FOR BETTER DETAIL OF HOT GLUE	9/20/2016	JJG	FFC

ADD HOT GLUE (MCMASTERCARR 7518A55) AROUND TERMINALS AND WIRES AFTER SOLDERING FOR STRAIN RELIEF AS SHOWN



PIN OUT				
ITEM0	ITEMG)			
PIN 1	PIN 1			
PIN 2	PIN 2			



ECIFIED:):		PROJECI	
5			fII.E NAME	
	OAlf	8/26/2015	PART NUM8tli	
	REVI.SION	4	oescIIII'TION	Otto Pushbutton Switch Terminated
:S <u>//S_MAX</u>			MAltRIAL	N/A
\$CALE			FINISH	N/A
			ORAWINGSIZE. 8	sheet 1 of 1

