## **Advanced Modular Manikin Connector Bill of Materials**



This document lists the parts necessary to assemble one complete connector pair.

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	Item	For	Note	Manufacturer	Manufacturer Part Number	Distributor	Distributor Part Number	Unit Price	Quantity	Extended Price
Custom Manufactured Parts	Connector Housing	Housing	Machined from aluminium	Entropic Engineering		Entropic Engineering		TBD	2	TBD
	Latch Pin	Latch	Machined from stainless steel	Entropic Engineering		Entropic Engineering		TBD	2	TBD
Cus anufa Pa	Release Button	Latch	Machined from stainless steel	Entropic Engineering		Entropic Engineering		TBD	1	TBD
Σ	Silicone Interface	Interfacing connector housing to silicone	Machined or 3D printed					TBD	2	TBD
<b> </b>	Floatrical Carrier at	Dower and die	Non-series 1	TE 0 '' ''	2004704	Diagram	A110000 NO	фг 0000		<b>444</b> = 0
	Electrical Connector Electrical Connector Insert	Power and data	Non-gendered Different colours	TE Connectivity	292178-1	Digikey	A113388-ND	\$5.8900		\$11.78
	(White)	Power and data	available	TE Connectivity	1-173977-1	Digikey	A98806-ND	\$0.8385	2	\$1.68
	Electrical Connector Insert (Blue)	Power and data	Different colours available	TE Connectivity	3-173977-1	Digikey	3-173977-1-ND	\$0.4129	2	\$0.83
	Fluid Tubing Connector	Fluids	Different hose sizes available	Parker	3100 56 00 99		https://www.ama		8	\$8.16
vare	005 O-Ring	Electrical interface	Buna-N (Nitrile)			McMaster	9452K13	\$0.0351	4	\$0.14
	012 O-Ring	Fluids	Buna-N (Nitrile)			McMaster	9452K21	\$0.0267	4	\$0.11
ardw	M8 Schrader Valve Core	Fluids	1.13 - 2.26 Nm installation torque	Schrader	8081100047	Amazon	https://www.ama	\$0.8990	8	\$7.19
H T	Conical Compression Spring	Latch	302 Stainless steel			McMaster	1692K51	\$2.6500	1	\$2.65
	M3 * 8mm Extended Tip Set Screw	Latch	18-8 Stainless steel			McMaster	92775A110	\$0.3752	1	\$0.38
	M3 * 40mm Socket Head Cap Screw	Silicone interface	18-8 Stainless steel			McMaster	91292A024	\$0.1196	8	\$0.96
	M3 Threaded Insert	Silicone interface	Only needed if silicone interface is plastic			McMaster	94510A240	\$0.1440	8	\$1.15
	M3 * 10mm Socket Head Cap Screw	Electrical interface	18-8 Stainless steel			McMaster	93705A815	\$0.2540	4	\$1.02
	M3 Washer	Electrical interface	18-8 Stainless steel			McMaster	91116A120	\$0.0277	4	\$0.11
oling	Manual Crimp Handle	Crimping electrical insert		TE Connectivity	58074-1	Digikey	A2031-ND	\$105.77	1	\$105.77
	Pneumatic Crimp Handle	Crimping electrical insert		TE Connectivity	58075-1	Digikey	58075-1-ND	\$288.53	1	\$288.53
	Crimp Die	Crimping electrical insert		TE Connectivity	58372-1	Digikey	A99129-ND	\$1,191.20	1	\$1,191.20
0	1.5mm Hex Wrench	Driving M3 set screw				McMaster	7996A82	\$3.50	1	\$3.50
-	2.5mm Hex Wrench	Driving M3 socket head cap screws				McMaster	7996A84	\$3.97	1	\$3.97
	O-Ring Lubricant (150 g)	Lubricating 012 O-rings	Food grade	Dow Corning	Molykote 111	McMaster	1204K32	\$17.61	1	\$17.61