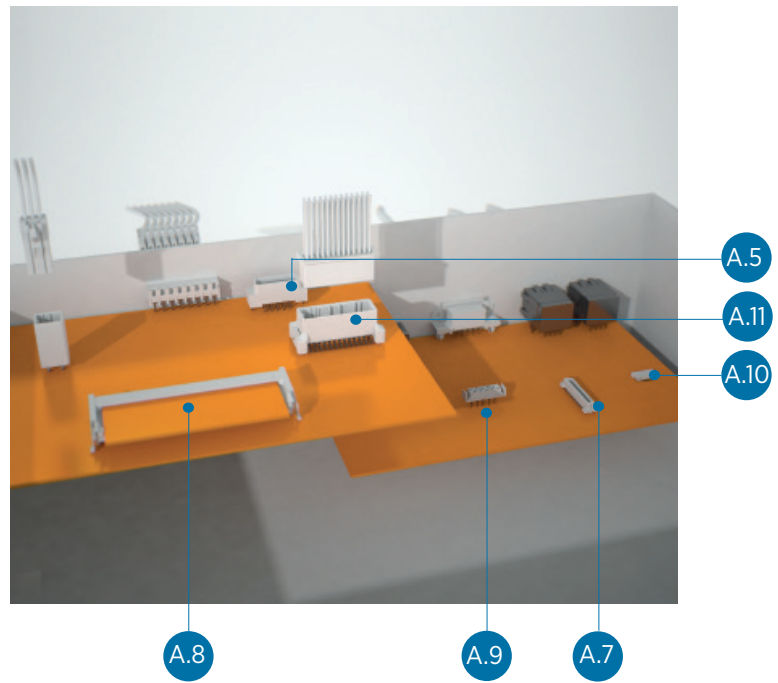


# HMI / CNC

## Cheat sheet

### Overview



### Human Machine Interface & Computer Numerical Control solutions

Human machine interaction is essential for effective operation and control of the machine on the user's end. For the most efficient human machine interaction, TE connectivity provides complete solutions for user-friendly monitoring, high-speed controlling and efficient data transfer and collection.

Input / Output



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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MODULAR JACKS AND PLUGS

A.1	RJ45	
	RJ45 IE PLUG IP20 4POS 180DEG FIELD INST.	1903526-1
	RJ45 IE PLUG IP20 4POS 45DEG FIELD INST	1987236-1
	RJ45 IE PLUG IP20 8POS 180DEG FIELD INST.	1903527-1
	RJ45 IE PLUG IP20 8POS 45DEG FIELD INST.	1987236-3
	RJ45 CAT5 HORIZONTAL RECEPTACLE 8POS THT	1-5406299-1
	RJ45 CAT5 HORIZONTAL RECEPTACLE 8POS SMT	2178126-2
	RJ45 CAT5 VERTICAL RECEPTACLE 8POS THT	6116202-2
	RJ45 CAT5 VERTICAL RECEPTACLE 8POS SMT	1705549-2
	IP20 JACK WITH RJ45 CAT5E 8 POS; UNSHIELDED;IDC	1987671-1
	IP20 JACK WITH RJ45 CAT5E 8 POS; SHIELDED	1987672-1

A.2	MINI I/O	
	MINI IO PLUG TYPE II FI; ISOLATION DIAMETER 1.05-1.15MM	1-2201855-1
	MINI IO PLUG TYPE II FI; ISOLATION DIAMETER 0.93-1.05MM	1-2201855-2
	MINI IO PLUG TYPE II SOLDER	2040008-1
	MINI IO VERTICAL RECEPTACLE TYPE II SMT WITH CAP	1-1971885-2
	MINI IO VERTICAL RECEPTACLE TYPE II SMT WITHOUT CAP	1971885-2
	MINI IO HORIZONTAL RECEPTACLE TYPE II SMT T&R	2069552-2
	MINI IO HORIZONTAL RECEPTACLE TYPE II SMT TRAY	1981386-1

A.3	D-SUB	
	<b>STANDARD BOARD MOUNT CONNECTORS</b>	
	DSUB 9POS RIGHT ANGLE PLUG THT	788792-1
	DSUB 9POS CABLE CONNECTOR RECEPTACLE	1-747943-5

A.4	DATA INTERCONNECT	
	<b>USB 2.0</b>	
	USB 2.0 INDUSTRIAL PLUG	2013798-1
	USB 2.0 VERTICAL RECEPTACLE TYPE A THT	1734366-1
	USB 2.0 HORIZONTAL RECEPTACLE TYPE A SMT	5353929-1

A.5	CHAMP	
	<b>CHAMP CONNECTORS</b>	
	1.27MM PCB PLUG CONNECTOR	3-2232346-1
	1.27MM CABLE RECEPTACLE CONNECTOR	3-2232516-1

Cabled power connectors



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.6	TERMINAL BLOCK	
	<b>EUROSTYLE TERMINAL BLOCK</b>	
	3.50MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	284391-3
	3.50MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	284514-3
	3.50MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	284512-3
	3.50MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SCREW	284506-3
	3.81MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	284392-3
	3.81MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	284517-3
	3.81MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	284513-3
	3.81MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SPRING	1986720-3
	5.00MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	796683-3
	5.00MM FIXED TERMINAL BLOCK SIDE ENTRY SPRING THT	1776261-3
	5.00MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	796642-3
	5.00MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	796644-3
	5.00MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SCREW	284040-3
	5.08MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	282841-3
	5.08MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	796636-3
	5.08MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	796638-3
	5.08MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SCREW	284041-3

A.7	MEZZANINE CONNECTORS	
	<b>FREE HEIGHT</b>	
	0.8MM BOARD TO BOARD RECEPTACLE SMT	5177985-1
	0.8MM BOARD TO BOARD PLUG SMT	5177984-1
	0.8MM BOARD TO BOARD RECEPTACLE SMT	2-1735482-1
	0.8MM BOARD TO BOARD PLUG SMT	5-5177986-1

Socket/card products



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.8	MEMORY SOCKET	
	<b>SOCKET</b>	
	M3 MEMORY SOCKET 88POS.	5316437-1
	M3 MEMORY SOCKET 72POS.	5179707-1

Cable/wire to Board



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.9	MICRO-MATCH	
	<b>MICRO-MATCH</b>	
	FEMALE ON BOARD VERTICAL THT	338068
	FEMALE ON BOARD VERTICAL SMT	338069
	FEMALE ON BOARD HORIZONTAL THT	215460
	MALE ON BOARD VERTICAL THT	215464
	MALE ON BOARD VERTICAL SMT	338728
	MALE-ON-WIRE IDC	215083
	PADDLEBOARD IDC	215570

A.10	FPC	
	<b>FLEXIBLE PRINTED CIRCUIT</b>	
	2.00MM 2ROW UNSHROUDED HEADER, VERTICAL SMT	5084476
	2.00MM 2ROW UNSHROUDED HEADER, VERTICAL THT	1734508
	2.00MM 2ROW UNSHROUDED HEADER, HORIZONTAL THT	1734508

Cabled power connectors



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.11	DYNAMIC SERIES CONNECTORS	
	<b>DYNAMIC 1100 SERIES</b>	
	2.00MM 2ROW VERTICAL HEADER SMT	1-1939995-3
	2.00MM 2ROW RECEPTACLE HOUSING CTW	1-1827863-3
	2.00MM CTW CONTACT	1827570-2
	<b>DYNAMIC 1500 SERIES</b>	
	3.50MM MODULAR VERTICAL HEADER THT	1-1827581-4
	3.50MM MODULAR RECEPTACLE HOUSING CTW	1-1827579-1
	3.50MM CTW CONTACT	1827570-2
	<b>DYNAMIC 1900 SERIES</b>	
	3.50MM 2ROW HORIZONTAL HEADER THT	1-1871935-4
	3.50MM 2ROW RECEPTACLE HOUSING CTW	1-1871940-4
	<b>DYNAMIC 2100 SERIES</b>	
	2.50MM 1ROW VERTICAL HEADER THT	1318123-1
	2.50MM 1ROW RECEPTACLE HOUSING CTW	1-1318120-3
	2.50MM CTW CONTACT	1318105-1