

Where it is needed compact connectors designed for use in power and signal circuits applications and ideally suited for wiring in a wide range of applications

	High Performance Interconnect (HPI) connector system (2.0 mm)	Signal Double Lock (2.5 SDI) Connectors	.100" Centerline		.156" Centerline		Grace Inertia Connectors (GIC)	Economy Power Connectors (EP)			Economy Power II Connectors (EP II)	Economy Power 2.5 Connectors (EP2.5)	Miniature AMP-IN Terminals and connectors
			MTA 100 IDC termination	CST II- 100 Crimp	MTA 156 IDC termination	SL - 156 Crimp & large ins Dia.							
No. of position	2-16 10-40	2-13	2-28	2-28	2-24	1-24 2-24 W/through board latch	Available in diff. Number of pos. depending on centerline	1-12	2-12	2-5	2-12	2-20	Hsg. 2-15 p for 0.79 [2.0mm] Centerline Hsg. 2-20 p for 0.98 [2.5mm] centerline
Centerline (mm)	2.0	2.5	2.54	2.54	3.96	3.96	From 2.0 to 12mm in diff. Versions	3.96 mm [.156"]	5.08 mm [.200"]	7.92 mm [.312"]	3.96	2.5	Hsg. available for 0.79 [2.0mm] and 0.98 [2.5mm] C.L. spacing
Wire size (AWG)	30-24	26-20	28-22	26-22	26-18	30-16	28-12 depending on centerline and config.	22-18			22-16	26-22	26-10 (terminals) 30-22 (connectors)
Current rating	3	3	5	6.5	7	10	from 1.5 to 20A	8 (1p) - 7.5	7.5	7.5	11	4.5	4 (AWG 22)
Voltage rating max.	100 (3A) 250 (1A)	50 VAC or VDC	250	250	600	250	50 to 600 VAC	250	250	250	600	250	250
Operating temp. Range (C)	-25°C to +85°C	-30°C to +105°C	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C	-55°C to +105°C	-30°C to +105°C	-25°C to +105°C			-25°C to +105°C	-25°C to +105°C	
Flammability	UL 94 V0	UL 94 V0	UL 94 V0&V2	UL 94 V0	UL 94 V0&V2	UL 94 V0	UL 94 V0	UL 94 V0 (GWT)			UL 94 V0 (GWT)	UL 94 V0 (GWT)	UL 94 V0
Approvals	UL - CSA	UL, CSA, VDE TPA Available	UL - CSA	UL - CSA	UL - CSA	UL - CSA	UL - CSA	UL - CSA			UL Recognized	UL Recognized	
Available Configurations	Wire to Board	Wire to Wire Wire to Board TPA available	Wire to Wire Wire to Board	Wire to Board Shrouded and unshrouded headers	Wire to Wire Wire to Board (Card edge conn.s available IDC Quad)	Wire to Board Not mating with MTA 156 shrouded headers	Wire to Wire Wire to Board TPA available	Wire to Board Shrouded and unshrouded headers			Wire to Board Shrouded and unshrouded headers TPA available on	Wire to Board Shrouded headers TPA available	Wire to Board

	High Density					Standard Density				
	Micro MATE-N-LOK Connectors "3 mm"	.062 [1.57] Commercial Pin and Socket	Power Double Lock (PDL) Connectors	Mini-Universal MATE-N-LOK Connectors Mini-Universal MATE-N-LOK II Connectors	VAL-U-LOK Connectors	Power Key Connector	.093 [2.36] Commercial Pin and Socket	Commercial MATE-N-LOK Connectors	Universal MATE-N-LOK Connectors Universal MATE-N-LOK II Connectors	
No. of position	2-24	1-9	1-12 3-12 2 2	1-24 2-24 (II)	2-24	2-5	1-15	1-16	1-15 2-15 (II)	
Centerline (mm)	3	3.68	3.96 6.5 7.92 13.00	4.14	4.2	5	5.03	5.08	6.35	
Wire size (AWG)	30-18	30-18	26-16	30-16	26-18	24-16	14-24	30-14	30-10	
Current rating	5	7	14	9.5 10.5 (M-UMNLI)	9	10	13	19	19	
Voltage rating max.	250 VAC	250 VAC or VDC	300 VAC (3.96 WTW, 6.5 WTB, 7.92 WTB) 50 VAC (3.96 WTB)	600 VAC or VDC	600 VAC	300 VAC	250 VAC or VDC	250 VAC	600 VAC or VDC	
Operating temp. Range (C)	-40°C to +105°	-55°C to +105°	-30°C to +105°	-55°C to +105°	-40°C to +105°	-30°C to +105°	-55°C to +105°	-55°C to +105°	-55°C to +105°** * UMNLI 125°C available	
Flammability	UL94 V0	UL94 V2	UL94 V0, GWT (WTW)	UL94 V0, V	UL94 V0, V2 & GWT	UL94 V0	UL94-V2	UL94-V2	UL94 V0, V2 & GWT UL94 V0 (II)	
Approvals	UL, CSA, VDE	UL, CSA	UL, CSA, VDE TPA Available	UL, CSA, VDE (250V Max.) UL, CSA, VDE (II)	UL, CSA, VDE	UL, CSA	UL, CSA	UL, CSA	UL, CSA, VDE	
Available Configurations	Wire to Wire Wire to Board Wire to panel	Wire to Wire Wire to panel	Wire to Wire Wire to Board Wire to panel TPA available	Wire to Wire Wire to Board Mini UMNLI Available in sealed version	Wire to Wire Wire to Board Wire to panel	Wire to Board TPA Available	Wire to Wire Wire to Board	Wire to Wire Wire to Board	Wire to Wire Wire to Board Board to Board UMNLI Available in sealed version	

Glow Wire Material Option Available according to IEC 60335-1

Economy Power II, Economy Power 2.5 Connectors




Power Double Lock Connectors

VAL-U-LOK Glow Wire Connectors

Universal Mate-N-Lok Connectors

6 Position PDL Connectors

Key selection questions for specifying Power and Signal Interconnects products

- Wire type and size requirements
- IDC or crimp&poke
- Current and voltage rating
- Operating temperature
- Space available for the connectors
- Number of positions
- Configuration (WTW, WTB)
- Wire dress (Vertical, Horizontal Headers...etc.)
- Volume of contacts required (application tooling)
- Working condition (e.g. vibrations)
- Required accessories (TPA, CPA, strain relief...etc.)
- Industry Standards that have to be met
- Flammability ratings

Application

- Household appliance
- Fitness equipment
- Vending machines
- Motor step&Direction controller
- Gaming
- Garage door openers
- Security systems
- Industrial controls
- HVAC system controls
- Fan modules
- Business equipment

FOR MORE INFORMATION
TE Technical Support Center

Austria:	+43 (0) 1-9056-0	Mexico:	+52 (0) 55-1106-0800
Baltic Regions:	+44 (0) 1-382508080	Netherlands:	+31 (0) 73-6246-999
Canada:	+1 (800) 522-6752	Nordic:	+46 (0) 8-5072-5000
China:	+86 (0) 400-820-6015	Spain/Portugal:	+34 (0) 932-910-330
France:	+33 (0) 1-3420-8686	Switzerland:	+41 (0) 71-447-0447
Germany:	+49 (0) 6151-607-1999	UK:	+44 (0) 800-267666
Italy:	+39 (0) 011-401-2111	USA:	+1 (800) 522-6752
Latin/S. America:	+54 (0) 11-4733-2200		

Universal Mate-N-Lok Connectors High Temperature (150°C)




Grace Inertia Connectors (GIC) 3.3




