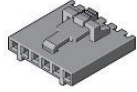
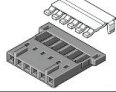



RECEPTACLE, Discrete Wire


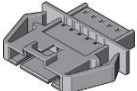
Component	Packaging	Flammability	Circuits	Description	Order No.
	Bag	94V-0	2 to 25	Crimp Housing with Positive Lock	50-57-94XX
			2 to 8	Crimp Housing, Positive Lock with TPA	50-57-97XX
			2 to 8	TPA (Terminal Positioning Assurance) Lock	73838-00XX

Replace XX with number of circuits desired.

FEMALE TERMINAL


Component	Description	Packaging	Base Material	Plating	Insulation Diameter, Max	Wire Range	Order No.
	Female Terminal	Reel	Phosphor Bronze	Tin	1.63mm	22 to 24 AWG	16-02-0086
					1.52mm	24 to 30 AWG	16-02-0069
				15µ" Gold	1.63mm	22 to 24 AWG	16-02-0087
					1.52mm	24 to 30 AWG	16-02-0082
				30µ" Gold	1.63mm	22 to 24 AWG	16-02-0088
					1.52mm	24 to 30 AWG	16-02-0083

PLUG, Discrete Wire

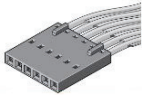
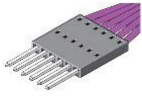
Component	Packaging	Circuits	Flammability	Description	Order No.
	Bag	2 to 25	94V-0	Male Housing	70107-00YY
				Male Housing, Panel Mount	70107-00ZZ

Replace YY with number of circuits desired -1. For example, if you desire an 8 circuit part, insert 07.
 Replace ZZ with number of circuits desired +34. For example, if you desire an 8 circuit part, insert 42.

MALE TERMINAL

Component	Description	Packaging	Base Material	Plating	Insulation Diameter, Max	Wire Range	Order No.
	Male Terminal	Reel	Phosphor Bronze	Tin	1.63mm	22 to 24 AWG	16-02-0107
					1.52mm	24 to 30 AWG	16-02-0105
				15µ" Gold	1.63mm	22 to 24 AWG	16-02-0081
					1.52mm	24 to 30 AWG	16-02-0077
				30µ" Gold	1.63mm	22 to 24 AWG	16-02-0116
					1.52mm	24 to 30 AWG	16-02-0078

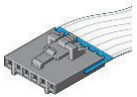
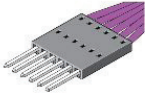
RECEPTACLE (Insulation Displacement Technology)

Component	Flammability	Packaging	Description	Wire Range	Circuits	Plating	Order No.
	94V-0	Tube	Female IDT Housing	22 to 28 AWG	2 to 25	Tin	14-56-7XX1
						15µ" Gold	14-56-7XX6
			Male IDT Housing	22 to 28 AWG	2 to 25	Tin	14-44-52XX
						15µ" Gold	14-44-53XX

Replace XX with number of circuits desired.

Above part numbers 22 AWG options. See molex.com for other AWG options.

RECEPTACLE (Flat Flex Cable)

Component	Description	Packaging	Circuits	Flammability	Plating	Order No.
	Female FFC Housing with Positive Lock	Tube	2 to 25	94V-0	Tin	15-38-8XX0
					15µ" Gold	15-47-4XX3
	Male FFC Housing	Tube	2 to 25	94V-0	Tin	15-38-9XX2
					15µ" Gold	15-47-5XX0

Replace XX with number of circuits desired.

Specifications

ELECTRICAL

Current:

3.0A max. (Discrete Wire)

2.0A max. (IDT/FFC)

Voltage: 250V

Contact Resistance: 15 Milliohms

Dielectric Withstanding Voltage:

1500V AC for 1 Minute

Insulation Resistance: 1,000 Megohms

PHYSICAL

Operating Temperature:

- 40 to +105°C

REFERENCE INFORMATION

UL File No.: E29179

CSA File No.: LR19980

RoHS Compliant: YES

MECHANICAL

Connector Retention:

45N max. When Latch Engaged

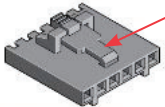
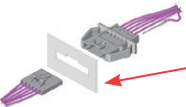
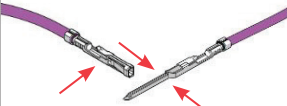
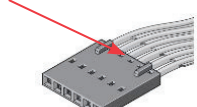
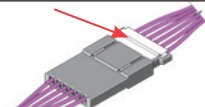
15N min. With Latch Disengaged

MAXIMUM WIRE DIAMETER


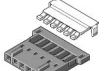

1.63mm (22 to 24 AWG Terminal)

1.52mm (24 to 30 AWG Terminal)

Features and Benefits

Feature	Benefit	Picture
Positive locking	Ensures secure retention when receptacle and plug are mated	
Low-profile, stackable housing	Provides design flexibility with our without panel mounting	
Terminal provides two independent points of contact	Offers redundant, secondary current paths for long-term electrical performance and reliability	
Ribbon cable IDT (Insulation Displacement Technology)	Lowest cost termination method for high-volume cable assembly processing	
Terminal position assurance (TPA)	Increases terminal pull-out-force and reduces the risk of terminal back out	

RECEPTACLE, Discrete Wire

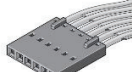
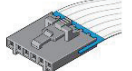
Component	Packaging	Resin	Flammability	Description	Circuits	Order No.
	Bag	Polyester	UL 94V-0	Crimp Housing, Positive Lock	2 to 25	50-57-94XX
				Crimp Housing, Positive Lock with (TPA)	2 to 8	50-57-97XX
				TPA (Terminal Positioning Assurance) Lock	2 to 8	73838-00XX

Replace XX with number of circuits desired.
 *Above IDT part numbers 22 AWG options.

FEMALE TERMINAL





Component	Description	Packaging	Base Material	Plating	Wire Range	Insulation Diameter, max.	Order No.
	Female Terminal	Reel	Phosphor Bronze	Tin	22 to 24 AWG	1.63mm	16-02-0086
					24 to 30 AWG	1.52mm	16-02-0069
				15μ" Gold	22 to 24 AWG	1.63mm	16-02-0087
					24 to 30 AWG	1.52mm	16-02-0082
				30μ" Gold	22 to 24 AWG	1.63mm	16-02-0088
					24 to 30 AWG	1.52mm	16-02-0083

RECEPTACLE, IDT, FFC

Component	Flammability	Packaging	Circuits	Resin	Description	Plating	Order No.
	94V-0	Tube	2 to 25	Polyester	Female IDT, Polarizing Ribs	15μ" Gold	14-56-7XX6*
Tin						14-56-7XX1*	
					Female FFC/FPC Positive Lock	15μ" Gold	15-47-4XX3
						Tin	15-38-8XX0

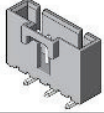

Replace XX with number of circuits desired.
 *Above IDT part numbers 22 AWG options.

Through-Hole Headers

Component	Packaging	Circuits	PCB Processing	Flammability	Description	Plating	Order No.
	Tube	2 to 25	260°C Max Through-hole Wave; 245°C Through-hole Pin in Paste	94V-0	Vertical Header	15μ" Gold	70543-00YY
Tin						70543-00ZZ	
					Right-Angle Header	15μ" Gold	70553-00YY
						Tin	70553-00ZZ
					Vertical Header with Tri-peg	15μ" Gold	70545-00ZZ
						Tin	70545-00YY
					Right-Angle Header with Tri-Peg	15μ" Gold	70555-00ZZ
						Tin	70555-00YY

Replace YY with number of circuits desired -1. For example, if you desire an 8 circuit part, insert 07.
 Replace ZZ with number of circuits desired +34. For example, if you desire an 8 circuit part, insert 42.

SMT Headers

Component	Circuits	PCB Processing	Header	Description	Packaging	Plating	Order No.
	2 to 25	Polyester	245°C MAX IR Reflow	Vertical SMT Header	Tube	15µ" Gold	74099-10XX
						Tin	74099-00XX
				Right-Angle SMT Header	Tape and Reel	15µ" Gold	15-91-7XX0
						Tin	15-91-6XX9

Replace XX with number of circuits desired.

Specifications

ELECTRICAL

Current:

3.0A max. (Discrete Wire)

2.0A max. (FFC/FPC)

Voltage: 250V

Contact Resistance: 15 Milliohms

Dielectric Withstanding Voltage:

1500V AC for 1 Minute

Insulation Resistance: 1,000 Megohms

REFERENCE INFORMATION

UL File No.: E29179

CSA File No.: LR19980

RoHS Compliant: Yes

PHYSICAL

Operating Temperature:

- 40 to 105°C

SOLDER TEMPERATURE

260°C (Through-hole Wave Solder)

245°C (IR Reflow SMT and Through-hole Paste)

MECHANICAL

Connector Retention:

45N max. When Latch Engaged

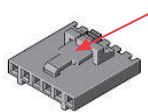
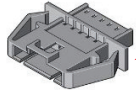

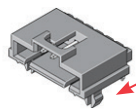
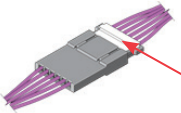
15N min. With Latch Disengaged

MAXIMUM WIRE DIAMETER

1.63mm (22 to 24 AWG Terminal)

1.52mm (24 to 30 AWG Terminal)

Features and Benefits

Feature	Benefit	Picture
Positive locking	Ensures secure retention when receptacle and header are mated	
Low-profile, stackable housing	Provides design flexibility with or without panel mounting	
Terminal provides two independent points of contact	Offers redundant, secondary current paths for long-term electrical performance and reliability	
PCB retention pegs	Maintains header position on PCB during soldering	
Terminal position assurance (TPA) retainer	Assures terminals are fully seated in the housings. Increases terminal pull out force and reduces the risk of terminal back out	

www.molex.com/link/slmodular.html