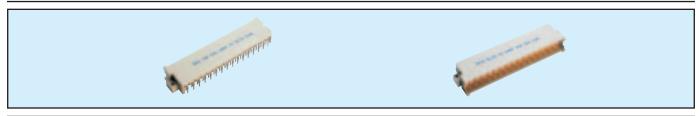
Male Style F

Series 8487 - 3 rows (3 x 16)





Contact Design and	Number of		Part Number Performance classes according to DIN 41612		
Termination Length	Contacts	Loading Description	II	I	
	32	d + z fully loaded	10 8487 048 001 026	10 8487 048 001 050	
	32	b + z fully loaded	10 8487 048 001 029	10 8487 048 001 053	
	32	d + z fully, Ground in z2	59 8487 048 000 055	59 8487 048 000 061	
	32	d + z fully, Ground in z2 + z32	59 8487 048 000 056	59 8487 048 000 062	
	32	b + z fully, Ground in z2	59 8487 048 000 057	59 8487 048 000 063	
	32	b + z fully, Ground in z2 + z32	59 8487 048 000 058	59 8487 048 000 063	
	48	d + b + z fully loaded	10 8487 048 001 025	10 8487 048 001 049	
	48	fully loaded + Ground in z2	59 8487 048 000 053	59 8487 048 000 059	
	48	fully, Ground in z2 + z32	59 8487 048 000 054	59 8487 048 000 060	
3.0 mm (Y)	48	fully loaded + Ground in b2 + b32	59 8487 048 000 066	59 8487 048 000 065	
Right Angled Pitch 5.08	48	fully loaded + Ground in d2 + d32	59 8487 048 000 069	59 8487 048 000 068	

NB: Alternative Prefix Variations Available: 16, please refer to Page 10.

Additional Plating & Loading Variations: Please contact your local AVX sales office or distributor.

LOADING DESCRIPTION



48 contacts, rows d + b + z fully loaded



32 contacts, rows d + z fully loaded



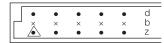
32 contacts, rows b + z fully loaded



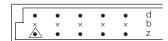
48 contacts, fully loaded with ground in first position row z



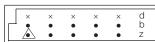
48 contacts, fully loaded with ground in first & last position row z



32 contacts, d + z fully loaded with ground in first position row z



32 contacts, d + z fully loaded with ground in first & last position row z



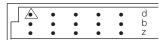
32 contacts, b + z fully loaded with ground in first position row z

1 1	×	×	×	×	×	d
	•	•	•	•	•	b
	\wedge	•	•	•	•	Z

32 contacts, b + z fully loaded with ground in first & last position row z



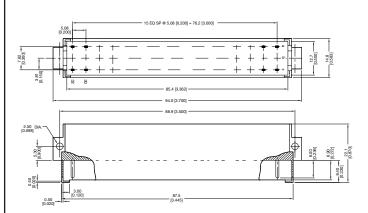
48 contacts, fully loaded with ground in first & last position row b

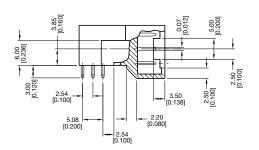


48 contacts, fully loaded with ground in first & last position row d

△ denotes ground pin

DIMENSIONS





Part Numbering Format



	10	8457	096	002	025
PREFIX VARIATIONS —					
 Male without keying system Male Press-Fit without flanges, without keying system Male with keying system Male Press-Fit without flanges, with keying system Male with 1.6mm board retention clip without keying system Male with 1.6mm board retention clip with keying system 					
 Female without keying system Female Press-Fit without flanges, without keying system Female with keying system Female Press-Fit without flanges, with keying system Female with 1.6mm board retention clip without keying system Female with 1.6mm board retention clip with keying system Special Device 					
SERIES NUMBER					
NUMBER OF CONTACT CAVITIES					
Ex: 096 = 96 cavities 128 = 128 cavities 160 = 160 cavities					
CONTACT VARIATIONS Tail lengths, Lead styles etc.					

PERFORMANCE CLASS AND LOADING VARIATIONS -

Class	M55302 Class I	DIN 41612 Class II	DIN 41612 Class III
Cycle Life	500+ Mating Cycles	400 Mating Cycles	50 Mating Cycles

QUALIFIED MILITARY PART NUMBERS

Military Designation			
M55302/131-01	M55302/134-02		
M55302/131-02	M55302/134-04		
M55302/132-01	M55302/134-05		
M55302/132-02	M55302/134-07		
M55302/132-03	M55302/134-08		
M55302/132-04	M55302/157-01		
M55302/132-05	M55302/157-02		
M55302/132-06	M55302/157-03		
M55302/133-01	M55302/157-04		
M55302/133-02	M55302/158-01		
M55302/133-03	M55302/158-02		
M55302/134-01			

Technical Specifications



inches (mm)

	Decis O M	inches (m		
SERIES	Basic Grid	0.100 (2.54) x 0.100 (2.54) - 0.100 (2.54) x 0.200 (5.08)		
	Insertion Force	3.0 oz./.83 N average per contact pair (20.23/90N max. for 96 contacts)		
8254/8459	Withdrawal Force	Average per contact pair (.54 oz./0.15N min. per contact)		
8457/8458	Contact Positions	2 x 16, 2 x 32, 3 x 10, 3 x 16, 3 x 32, 3 x 50, 4 x 32, 4 x 50, 5 x 32 20 milliohms max. 3 amperes @ 20°C max. on connectors up to 96 contacts		
8477/8478	Contact Resistance			
8483/8484	Current Rating* (see note)			
		1 ampere max. on connectors from 100 to 201 contacts		
	Insulation Resistance	5,000 megohms min. at 500 VDC		
	Dielectric Withstanding	1,000 VAC rms at sea level		
	Operating Temperature	-65°C to +125°C		
	Insulator Material	Thermoplastic polyester (GF), 94 V-O, UL rated		
	Socket Contact Material	Phosphor bronze		
	Pin Contact Material	Copper tin		
	Wrap Post Dimension	0.024 x 0.024 (0.6 mm x 0.6 mm)		
	Push-Out Force of Post in Insulator	3 lbs.		
	Contact Plating	DIN performance classes		
	Basic Grid	0.200 (5.08) x 0.200 (5.08)		
SERIES	Insertion Force	4.0 oz./1.11 N average per contact pair (9.0 lbs./40N max. for 32 contacts)		
8447	Withdrawal Force	Average per contact pair (.54 oz./0.15N min. per contact)		
	Contact Positions	2 x 16, 3 x 16		
	Contact Resistance	15 milliohms max.		
	Current Rating* (see note)	5.5 amperes @ 20°C max.		
	Insulation Resistance	5,000 megohms min. at 500 VDC		
	Dielectric Withstanding	1,550 VAC rms at sea level		
	Operating Temperature	-65°C to +125°C		
	Insulator Material	Thermoplastic (GI), 94 V-O, UL Rated		
	Pin Contact Material	Copper alloy		
	Wrap Post Dimension	1.0 mm x 1.0 mm		
	Contact Plating	DIN performance classes		
	Basic Grid	0.100 (2.54) x 0.100 (2.54) - 0.100 (2.54) x 0.200 (5.08)		
SERIES	Insertion Force	3.0 oz./.83 N average per contact pair (20.23/90N max, for 96 contacts)		
8557/8577	Withdrawal Force	Average per contact pair (.54 oz./0.15N min. per contact)		
	Contact Positions	3 x 16, 3 x 32, 4 x 32, (inverted receptacle)		
	Contact Resistance	20 milliohms max.		
	Current Rating* (see note)	3 amperes @ 20°C max. on connectors up to 96 contacts		
	Insulation Resistance	5,000 megohms min. at 500 VDC		
	Dielectric Withstanding	1,000 VAC rms at sea level		
	Operating Temperature	-65°C to +125°C		
	Insulator Material	Surface mount compatible polymers, 94 V-O, UL Rated		
	Socket Contact Material	Phosphor bronze		
	Pin Contact Material	Copper alloy		
	Wrap Post Dimension	0.024 x 0.024 (0.6 mm x 0.6 mm)		
	Push-Out Force of Post in Insulator	3 lbs.		
	Contact Plating	DIN performance classes		
	Solder Temperature	max. 250°C		

*Current Rating: UL approval allows that DIN connectors up to 96 contacts be rated at 3 amperes. Over 96 pins must be derated to 1.0 ampere maximum VDE, CSA, and other European standards rate all DIN and DIN type connectors at 1 ampere maximum when they are on an 0.100 (2.54) x 0.100 (2.54) grid. (UL file # E27610 Vol. #1 Section #6)

Technical Specifications

Pin Contact Material

Contact Plating

Wrap Post Dimension



inches (mm)

		Basic Grid	0.200 (5.08) x 0.200 (5.08)
	SERIES 8449/8450 8456/8454 8487	Insertion Force	4.0 oz./1.11 N average per contact pair (9.0 lbs./40N max. for 32 contacts)
		Withdrawal Force	Average per contact pair (.54 oz./0.15N min. per contact)
8		Contact Positions	2 x 5 + 2, 3 x 16, 1 x 11, 1 x 7, 1 x 8
8		Contact Resistance	15 milliohms max.
		Current Rating* (see note)	5.5 amperes @ 20°C max. (8456)
		Insulation Resistance	5,000 megohms min. at 500 VDC
		Dielectric Withstanding	1,550 VAC rms at sea level
		Operating Temperature	-65°C to +125°C
		Insulator Material	Polycarbonate (GF)

N/A

Copper alloy

DIN performance classes

^{*}Current Rating: UL approval allows that DIN connectors up to 96 contacts be rated at 3 amperes. Over 96 pins must be derated to 1.0 ampere maximum VDE, CSA, and other European standards rate all DIN and DIN type connectors at 1 ampere maximum when they are on an 0.100 (2.54) x 0.100 (2.54) grid. (UL file # E27610 Vol. #1 Section #6)