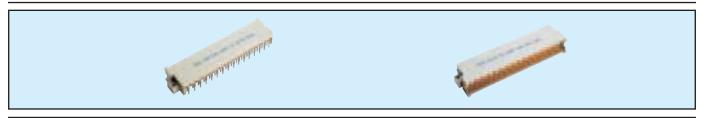
## Male Style F

### Series 8487 - 3 rows (3 x 16)





Contact Design and	Number of		Part Nur Performance classes acc	
Termination Length	Contacts	Loading Description	II	1
	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
البيرا	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



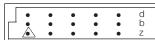
32 contacts, rows d + z fully loaded



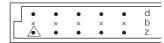
32 contacts, rows b + z fully loaded



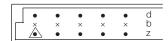
48 contacts, fully loaded with ground in first position row z



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



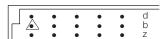
32 contacts, d + z fully loaded with ground in first & last position row z



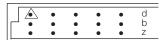
32 contacts, b + z fully loaded with ground in first position row z



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



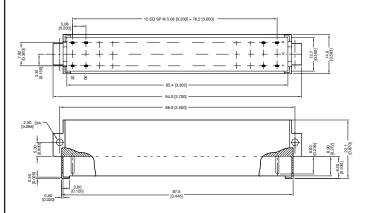
48 contacts, fully loaded with ground in first & last position row b

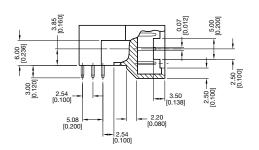


48 contacts, fully loaded with ground in first & last position row d

A denotes ground pin

#### **DIMENSIONS**





### **Part Numbering Format**



#### 8457 096 002 025 10 **PREFIX VARIATIONS -**10 Male without keying system 11 Male Press-Fit without flanges, without keying system 12 Male with keying system 13 Male Press-Fit without flanges, with keying system 16 Male with 1.6mm board retention clip without keying system 17 Male with 1.6mm board retention clip with keying system 20 Female without keying system 21 Female Press-Fit without flanges, without keying system 22 Female with keying system 23 Female Press-Fit without flanges, with keying system **26** Female with 1.6mm board retention clip without keying system 27 Female with 1.6mm board retention clip with keying system 00 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)

		inches (mr	
	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)	
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	
8477/8478	Contact Resistance	20 milliohms max.	
8483/8484	Current Rating* (see note)	3 amperes @ 20°C max. on connectors up to 96 contacts	
		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.	
		DIN performance classes	
	Contact Plating	·	
	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**

Insulator Material

Contact Plating

Pin Contact Material

Wrap Post Dimension



inches (mm)

		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)
	8449/8450 8456/8454 8487	Withdrawal Force	Average per contact pair (.54 oz./0.15N min. per contact)
		Contact Positions	2 x 5 + 2, 3 x 16, 1 x 11, 1 x 7, 1 x 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

N/A

Polycarbonate (GF)

DIN performance classes

Copper alloy

<sup>\*</sup>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)