### Male Style F Series 8487 - 3 rows (3 x 16)



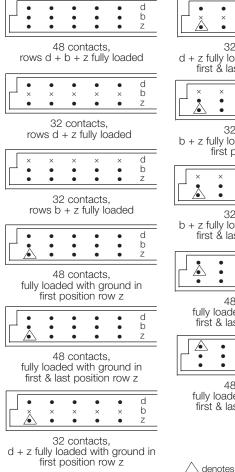




Contact Design and Number of			Part Number Performance classes according to DIN 41612	
Termination Length	Contacts	Loading Description	II	I
	32	d + z fully loaded	10 8487 048 001 026	10 8487 048 001 050
	32	b + z fully loaded	10 8487 048 001 029	10 8487 048 001 053
	32	d + z fully, Ground in z2	59 8487 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.

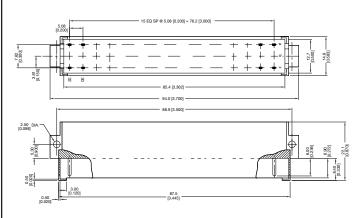
### LOADING DESCRIPTION

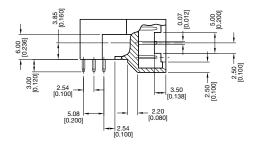


↓ Č	• ×	• ×	• ×	• ×	d b z
d + z fu first	ully lo	2 con adec st po	l with	, grou	
×	× •	× •	× •	× •	d b z
b + z fu 1	ully lo	2 con adec oositio	l with	, grou	und in
×	× •	× •	× •	× •	d b z
b + z fu first	ully lo	2 con adec st po	l with	í grou	
	•	•	•	•	d b z
	load	3 con ed wi st po	ith gr	ound	
	•	•	•	•	d b z
48 contacts, fully loaded with ground in first & last position row d					

 $\bigtriangleup$  denotes ground pin

### DIMENSIONS





# **Part Numbering Format**



		10	8457	096	002	025
PREFIX V	RIATIONS					
<ol> <li>Male Pre</li> <li>Male wit</li> <li>Male wit</li> <li>Male Pre</li> <li>Male wit</li> </ol>	nout keying system ss-Fit without flanges, without keying system n keying system ss-Fit without flanges, with keying system n 1.6mm board retention clip without keying system n 1.6mm board retention clip with keying system					
<ul> <li>21 Female</li> <li>22 Female</li> <li>23 Female</li> <li>26 Female</li> </ul>	vithout keying system Press-Fit without flanges, without keying system vith keying system Press-Fit without flanges, with keying system vith 1.6mm board retention clip without keying system vith 1.6mm board retention clip with keying system Device					
SERIES N	JMBER					
<b>NUMBER</b> Ex: 096 = 96 ca 128 = 128 c 160 = 160 c	avities					
CONTACT Tail lengths, Le	VARIATIONS ad styles etc.					
PERFORM	ANCE CLASS AND LOADING VARIATIO	NS —				

### 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)

	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) × 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)		
3447	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	$3 \times 16, 3 \times 32, 4 \times 32$ , (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		
		-65°C to +125°C		
	Operating Temperature Insulator Material	Surface mount compatible polymers, 94 V-O, UL Rated		
	Socket Contact Material	Phosphor bronze		
	Pin Contact Material			
	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**



inches (mm)

	Basic Grid	0.200 (5.08) × 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	Withdrawal Force	Average per contact pair (.54 oz./0.15N min. per contact)
8456/8454	Contact Positions	2 x 5 + 2, 3 x 16, 1 x 11, 1 x 7, 1 x 8
8487	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)
	Pin Contact Material	Copper alloy
	Wrap Post Dimension	N/A
	Contact Plating	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)