

## D-SUBMINIATURE MILITARY PRODUCTS – DM SERIES

Amphenol's D-Subminiature connectors are part of an industry standard for applications requiring robust and reliable connectors. These proven D-Subminiature connectors are one of the most popular Input/Output interconnects, addressing a wide variety of applications in Telecommunications, Data, Consumer, Industrial, Military, Instrumentation and Medical. Since many years Amphenol has been offering a wide range of D-Subminiature connectors to meet various design requirements including those in harsh environment.

These high performance connectors are designed for severe environment applications in the field of Telecommunications - data transmission, private automatic branch switching... Connectors for Aerospace, military (125°C) class and for particularly severe applications, especially high temperature (+155°C) class available. It features machined contacts and is available with solder bucket, straight spills, angled spills and wire wrap terminations.



### TARGET MARKETS



### FEATURES

- Military grade machined contact connectors
- Available in Straight, Angle, Wire Wrap, Solder Bucket, Crimp terminations
- Various PCB and Panel mounting accessory options available
- Cadmium plated shells, Green insulators & colour coded Crimp contacts
- Hoods available in plastic, metalized and metallic form with locking screws

### BENEFITS

- Suitable for high performance Aero-Mil applications
- Support both PCB & Cable mounting requirements
- Wide variety of choices for secure connection
- Comply with MIL-C-24308 standard
- Supports cable connection; Prevents risks of pulling up and accidental un-mating

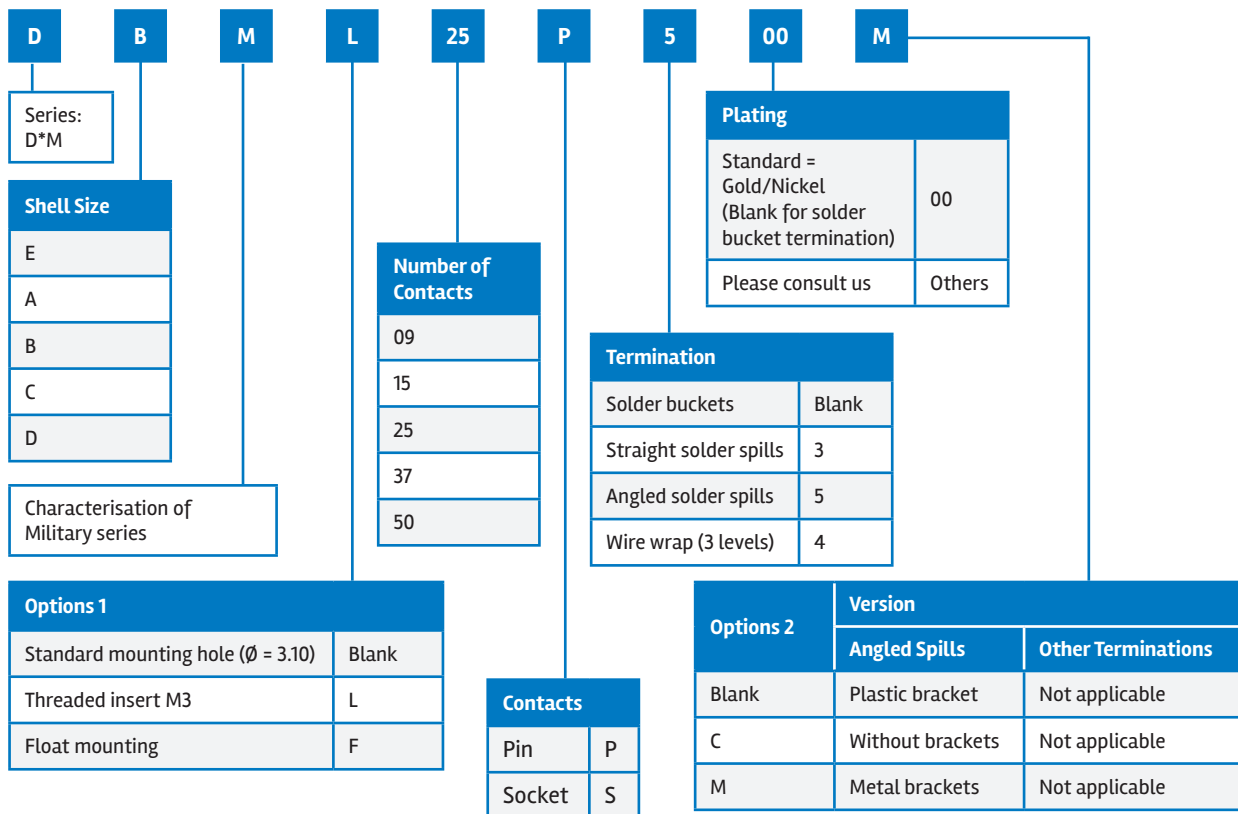
## DM SERIES HE 501



- For aerospace, military 125° class–European standard in compliance with NFC 93425/HE 501
- Shell plating: Cadmium
- Military and Aero applications



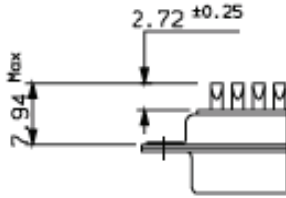
### ORDERING INFORMATION



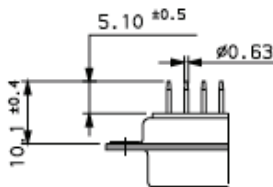
## DM SERIES HE 501

### SPECIFIC DIMENSIONS

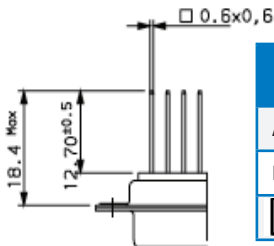
#### SOLDER BUCKETS



#### STRAIGHT SPILLS

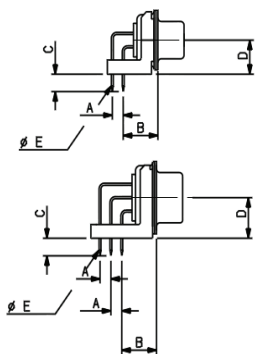


#### WIRE WRAP



	Amphenol
A	12.70 ±0.5
B	18.40 max.
	0.79 x 0.87

#### RIGHT ANGLE SPILLS



### CROSS REFERENCE LIST FOR THE MAIN HE 501 AND AMPHENOL

Connector Type			HE 501	Amphenol
Solder Buckets	Standard	M	HE 501 N..AP3	D.M..P
		F	HE 501 N..AS3	D.M..S
	Float mounting	M	HE 501 F..AP3	D.M..P
		F	HE 501 F..AS3	D.M..S

Connector Type			HE 501	Amphenol
Straight spills	Standard	M	HE 501 N..YP4.3	D.M..P 300
		F	HE 501 N..YS4.3	D.M..S 300
	Float mounting	M	HE 501 F..YP4.3	D.MF..P 300
		F	HE 501 F..YS4.3	D.MF..S 300

Connector Type			HE 501	Amphenol
Wire wrap 3 levels	Standard	M	HE 501 N..KP3.3	D.M..P 400
		F	HE 501 N..KS3.3	D.M..S 400
	Float mounting	M	HE 501 F..KP3.3	D.MF..P 400
		F	HE 501 F..KS3.3	D.MF..S 400

Connector Type			HE 501	Amphenol
Angled spills 500	Standard	M	HE 501 P..VP6.3	D.M..P 500
		F	HE 501 P..VS6.3	D.M..S 500
	Metal brackets	M	HE 501 M..VP6.3	D.M..P 500M
		F	HE 501 M..VS6.3	D.M..S 500M

Dimension	Termination
	5
A	2.54
B <sup>±0.1</sup>	10.30
C <sup>±0.5</sup>	4.00
D <sup>±0.1</sup> 9 to 37 contacts	7.20
50 contacts	8.60
Ø E	0.63

## DM SERIES HE 508

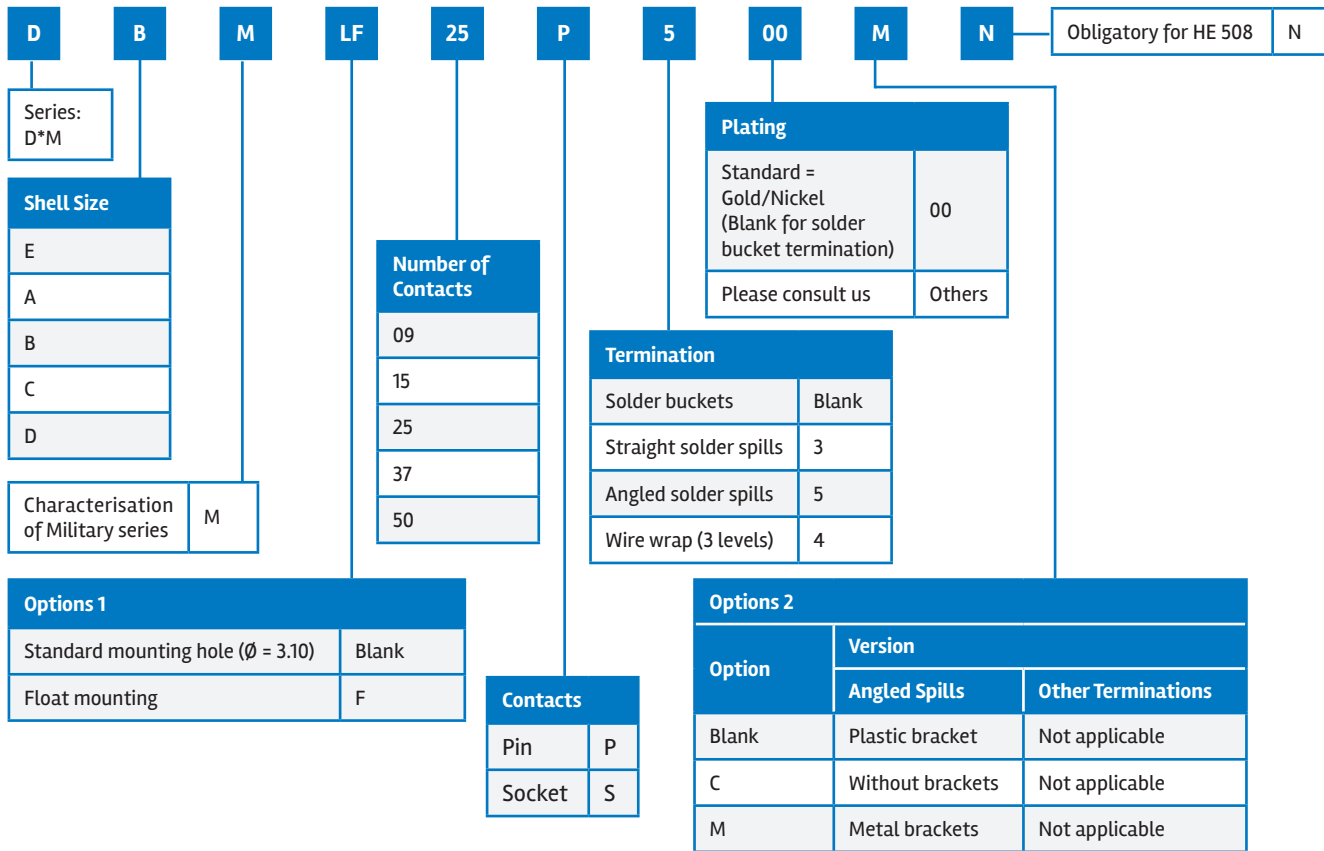


### UL RATING PRODUCT E66906

- For particularly severe applications, especially high temperatures class + 155°C in compliance with NFC 93425 / HE 508
- Shell plating: Cadmium
- Military and Aero applications



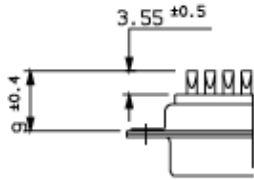
## ORDERING INFORMATION



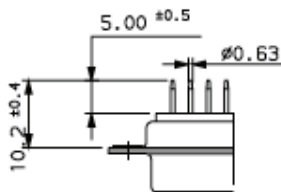
## DM SERIES HE 508

### SPECIFIC DIMENSIONS

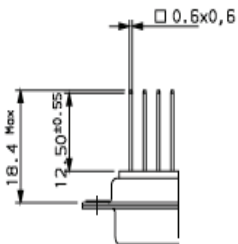
#### SOLDER BUCKETS



#### STRAIGHT SPILLS

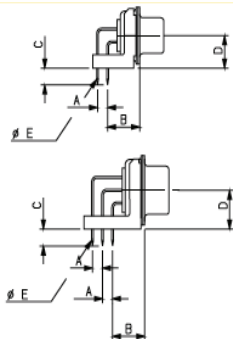


#### WIRE WRAP



3 Levels  
Diagonale 0.79 – 0.87

#### RIGHT ANGLE SPILLS



### CROSS REFERENCE LIST FOR THE MAIN HE 501 AND AMPHENOL

Connector Type			HE 508	Amphenol
Solder Buckets	Standard	M	HE 508 N..AP	D.M..PN
		F	HE 508 N..AS	D.M..SN
	Float mounting	M	HE 508 F..AP	D.MF..PN
		F	HE 508 F..AS	D.MF..SN

Connector Type			HE 508	Amphenol
Straight spills	Standard	M	HE 508 N..YP4	D.M..P 300N
		F	HE 508 N..YS4	D.M..S 300N
	Float mounting	M	HE 508 F..YP4	D.MF..P 300N
		F	HE 508 F..YS4	D.MF..S 300N

Connector Type			HE 508	Amphenol
Wire wrap 3 levels	Standard	M	HE 508 N..KP3	D.M..P 400N
		F	HE 508 N..KS3	D.M..S 400N
	Float mounting	M	HE 508 F..KP3	D.MF..P 400N
		F	HE 508 F..KS3	D.MF..S 400N

Connector Type			HE 508	Amphenol
Angled spills 500	Standard	M	HE 508 P..VP6	D.M..P 500N
		F	HE 508 P..VS6	D.M..S 500N
	Metal	M	HE 508 M..VP6	D.M..P 500MN
		F	HE 508 M..VS6	D.M..S 500MN

Dimension	Termination
	5
A	2.54
B <sup>±0.1</sup>	10.30
C <sup>±0.5</sup>	4.00
D <sup>±0.1</sup> 9 to 37 contacts	7.20
50 contacts	8.60
Ø E	0.63

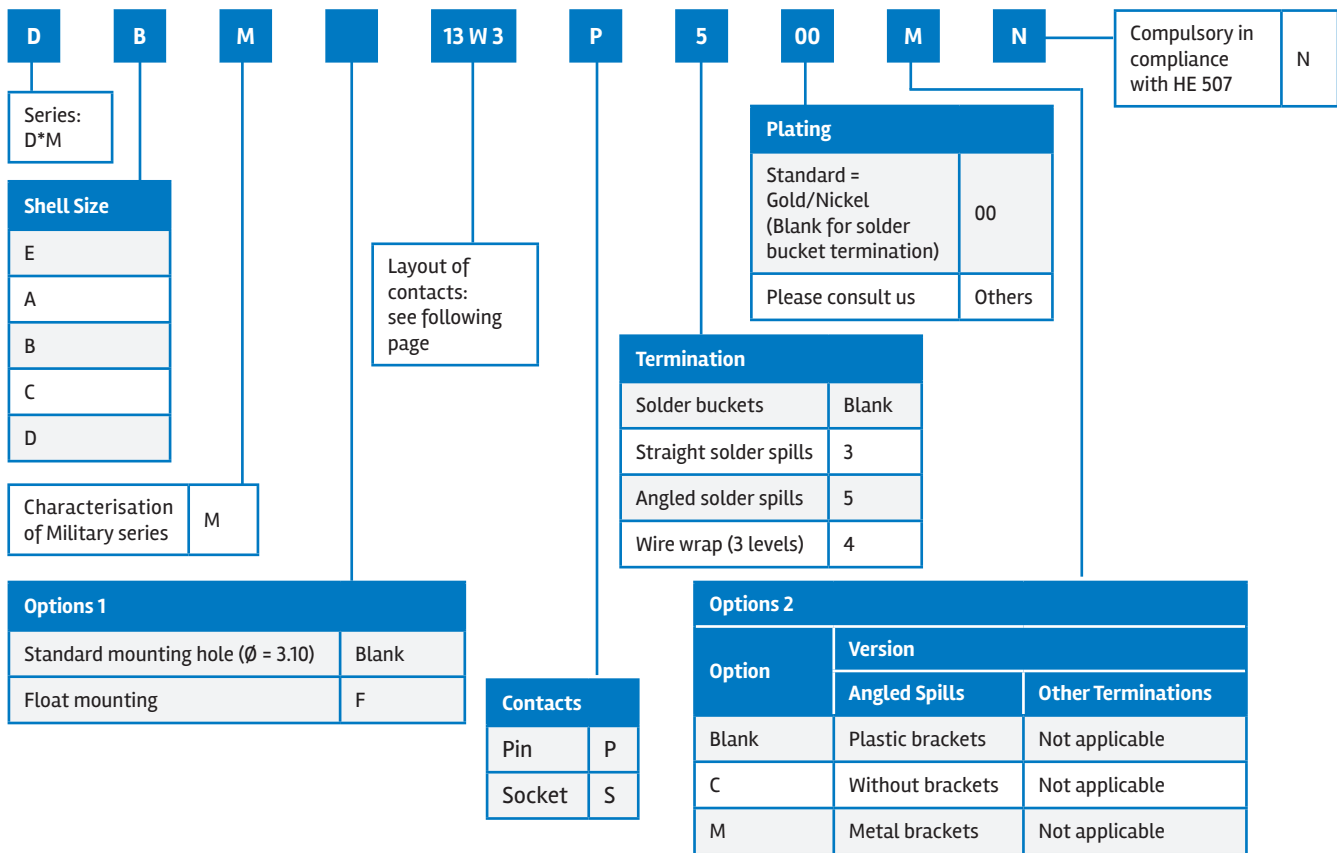
## DM SERIES HE 507



- Connectors drawn from DM series. Composed of mixed arrangements
- of standard signal and size 8 cavities housing, coax, power, high voltage and optical removable contacts
- Shell plating: Cadmium
- Military and Aero applications



### ORDERING INFORMATION



# LAYOUTS

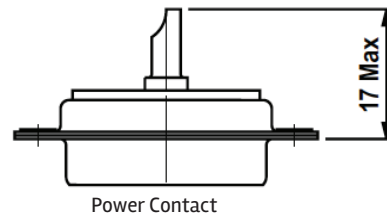
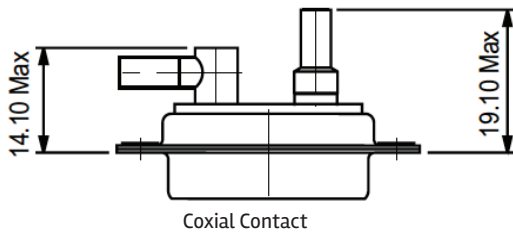
## MALE INSULATOR FRONT VIEW

Shell size	Layout	
E	5W1	
A	11W1	
	7W2	
	3W3	
	3V3	
	B	21W1
17W2		
13W3		
9W4		
5W5		

Shell size	Layout	
C	25W3	
	21WA4	
	27W2	
	8W8	
	D	47W1
24W7		
36W4		

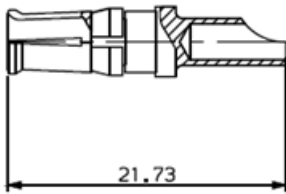
- Standard contacts
- Coaxial and power contacts

## SPECIFIC DIMENSION

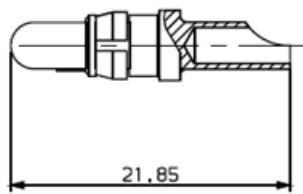


## POWER CONTACTS

Female



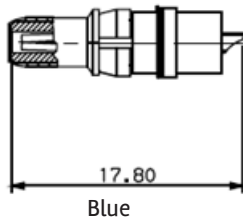
Male



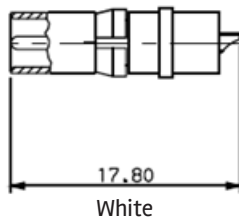
Wire Size	Max. Current	Part Numbers	
		Male	Female
AWG8	40A	8630-3098NLF	8630-3099NLF
AWG12	20A	8630-3056NLF	8630-3057NLF
AWG14	15A	8630-3060NLF	8630-3061NLF
AWG16	10A	8630-3064NLF	8630-3065NLF

## HIGH VOLTAGE CONTACTS

Male 8638.2000



Female 8638.2001



These removable contacts are suitable for the contact cavities of the DMW series and DW series. The coaxial contacts are in compliance with:

- NFC 93569
- KMX4 specification

### MECHANICAL PERFORMANCE

- Mating Force Per Set of Contact: 3N
- Mating Endurance: 200
- Temperature: -55°C to + 125°C

### ELECTRICAL PERFORMANCE

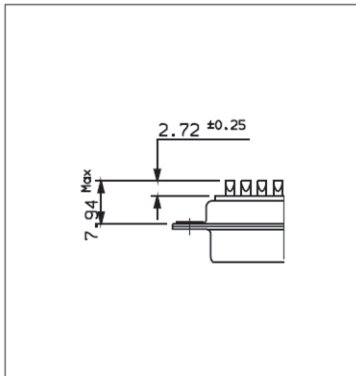
- Dielectric Withstanding Voltage: 2800 V.r.m.s
- Break Down Voltage: 3200 V.r.m.s
- Insulation Resistance: 10<sup>6</sup> MΩ
- Contact Resistance: ≤ 5 MΩ
- Max Current Rating: 5A
- Material: TEFLON





## SPECIFIC DIMENSIONS

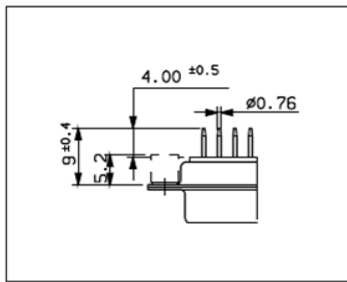
### Solder Buckets



#### STANDARD P/N LIST

DEM09P032N
DEM09S032N
DAM15P032N
DAM15S032N
DBM25P032N
DBM25S032N
DCM37P032N
DCM37S032N
DDM50P032N
DDM50S032N

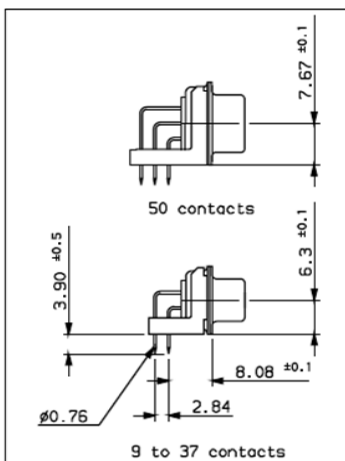
### Straight Spills



#### STANDARD P/N LIST

DEM09P332N
DEM09S332N
DAM15P332N
DAM15S332N
DBM25P332N
DBM25S332N
DCM37P332N
DCM37S332N
DDM50P332N
DDM50S332N

### Angled Spills



#### STANDARD P/N LIST

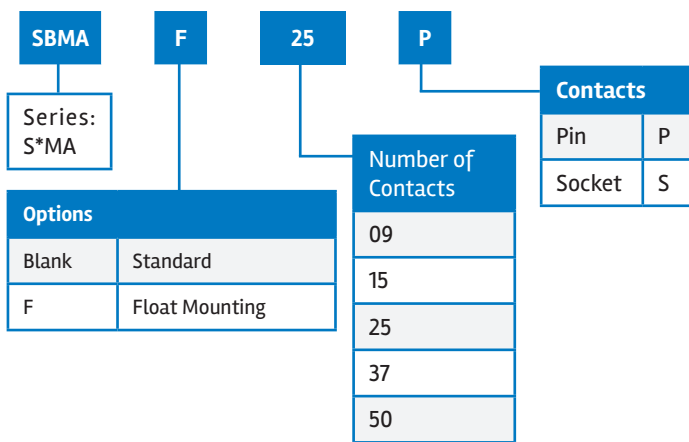
DEM09P732N
DEM09S732N
DAM15P732N
DAM15S732N
DBM25P732N
DBM25S732N
DCM37P732N
DCM37S732N
DDM50P732N
DDM50S732N

## SMA SERIES – HIGH DURABILITY, MILITARY GRADE CRIMP CONNECTORS

- For particularly high durability, Military grade applications
- 1.27µ Gold plating
- Shell plating: Cadmium
- Crimp housing with Mil grade colour coded contacts packed separately

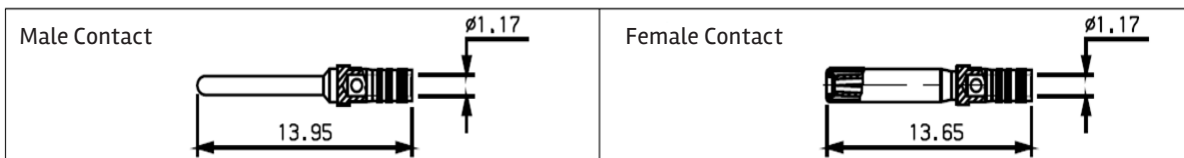


### ORDERING INFORMATION



STANDARD P/N LIST
SEMA09P
SEMA09S
SAMA15P
SAMA15S
SBMA25P
SBMA25S
SCMA37P
SCMA37S
SDMA50P
SDMA50S

### CONTACTS CRIMP TYPE 20/24 AWG WIRES



Wire size for cable	Contact	Part Number
AWG 20/24 wire size	Male	86303020A
	Female	86303022A

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[3003W3PXX56N40X](#) [3005W5PXX99A30X](#) [3005W5PXX99E40X](#) [3005W5SXX99A30X](#) [3005W5SXX99E40X](#) [3013W6SCM99A10X](#)  
[3036W4PCM41A10X](#) [3036W4SCM99A10X](#) [FCE17-E2W2SS-2N0](#) [212522-7](#) [PII-468-1](#) [3003W3PXX43A10X](#) [3003W3SXX56N40X](#)  
[3005W5PXX88N40X](#) [3007W2PAR71E20X](#) [3008W8SXX57A30X](#) [3009W4PCT57P20X](#) [3011W1SXX99A10X](#) [3013W3PCM99A10X](#)  
[3017W2SAR69C40X](#) [321WA4PXK99A60X](#) [3F3SSC22S41A30X](#) [L717TWA7W2PP2SY3R](#) [DBM-17W2S-1A8N-A190-A197-1](#)  
[421WA4PCR50E20X](#) [09691009009](#) [09691100022500](#) [09693009176](#) [09692009147](#) [09693909015](#) [6017W2PCM41B30X](#) [790-061SH-](#)  
[36W2NMNA](#) [790-044SE-7P3MNPB](#) [790-043PE-11P2MPA](#) [790-043PB-2P2MPB](#) [790-029SB-2P2MEPA](#) [790-028PK-9P9MPA](#) [790-028PH-](#)  
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[36P2ZNUG](#)