

MDM Series

Micro D connectors, Wired type

MCMX - CS FR061



| Type | Mating/ Unmating Force (N max) | Unmating Force (N min) | Max weight with contacts and without accessories nor wire (g) |
|---------|--------------------------------------|---------------------------|---|
| Size 9 | 25 | 1.3 | 2.2 |
| Size 15 | 42 | 2.0 | 3 |
| Size 21 | 58 | 2.9 | 3.8 |
| Size 25 | 70 | 3.5 | 4.3 |
| Size 31 | 86 | 4.3 | 5.1 |
| Size 37 | 103 | 5.1 | 5.9 |
| Size 51 | 142 | 7.1 | 7.2 |

Electrical & Mechanical Characteristics

| Characteristics | Specifications | |
|--|----------------|---------------------------------|
| Working voltage | 150 | Vrms max (at sea level) |
| | 100 | Vrms max (33000 m of altitude) |
| Rated current AWG 26 | 2.5 | A max |
| Rated current AWG 25 | 2.5 | A max |
| Contact resistance (Low level current) | 6 | mΩ max (10mA / 20 mV DC) |
| Contact resistance | 5 | mΩ max (Rated current) |
| Insulation resistance | 5000 | MΩ min (500 V DC) |
| Dielectric withstanding voltage | 600 | Vrms (60 Hz AC) (at sea level) |
| | 150 | Vrms (60 Hz AC) (at 70000 feet) |
| Contact retention in insert | 22.25 | N min (no axial move allowed) |
| Engagement force | 1.667 | N max per contact |
| Separation force | 0.137 | N min per contact |
| Mechanical endurance | 500 | Cycles (mating / unmating) |
| Temperature range | -55/+125 | °C |
| Storage temperature | -55/+125 | °C |

Description

High performance microminiature connectors for military applications. Meet the performance and dimensional requirements of the MIL-DTL-83513 specifications.

Compliant to MIL-DTL-83513/3, MIL-DTL-83513/4

Suitable for use in high performance military / aerospace applications : Board to Board, Board to Cable, Cable to Cable.

Twist Pin contacts technology.

Sizes available : 9, 15, 21, 25, 31, 37, 51 ways

Accepted wires size : Insulated wire AWG 26
Uninsulated wire AWG 25

Pitch between two contacts rows : 1.09 mm (.043")

Pitch between two horizontally adjacent contacts : 1.27 mm (.050")

Features & Benefits

- Compliant with commercial military grade quality level
- High performance Micropin™ contact system: "Twist pin" spring male contact and tubular socket contact
- Wires crimped & encapsulated
- Harnesses length flexibility
- Low size connectors
- Low weight connectors

Applications

- Defense
- Military
- Avionics

Quality Level

Commercial grade according to specification FR061.

Packaging

Individual ESD plastic bag.

Each MCMX socket connector is sold with an interfacial seal.

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How To Order Connector

Our easy build-a-connector concept allows you to mix and match options to create the MDM, wired type, you need. To order, select desired option from each category and place it in the appropriate box.

FR061 specification:

LF-MCMX-83513 / 03 - D 01 N FR061

Littelfuse MCMX Series
as per MIL-DTL-83513

Type of Contact:

03: Crimp type, Pin (Male)
04: Crimp type, Socket (Female)

Contact arrangement:

Number of contacts

A: 9
B: 15
C: 21
D: 25
E: 31
F: 37
G: 51

Connector specification for Commercial grade

Shell Finish:

N: 13 µm min Ni

Wire type:

Length 18"

01: Length 457 mm mini (18" min) M22759 / 11 - 26 - 9 (White color insulation)
Insulation : Extruded PTFE / Conductor : AWG 26 silver coated copper alloy

03: Length 457 mm mini (18" min) M22759 / 11 - 26 - * (10 colors repeating)
Insulation : Extruded PTFE / Conductor : AWG 26 silver coated copper alloy

09: Length 457 mm mini (18" min) M22759 / 33 - 26 - 9 (White color insulation)
Insulation : Modified XL-ETFE / Conductor : AWG 26 silver coated high strength copper alloy

11: Length 457 mm mini (18" min) M22759 / 33 - 26 - * (10 colors repeating)
Insulation : Modified XL-ETFE / Conductor : AWG 26 silver coated high strength copper alloy

Length 36"

02: Length 914 mm mini (36" min) M22759 / 11 - 26 - 9 (White color insulation)
Insulation : Extruded PTFE / Conductor : AWG 26 silver coated copper alloy

04: Length 914 mm mini (36" min) M22759 / 11 - 26 - * (10 colors repeating)
Insulation : Extruded PTFE / Conductor : AWG 26 silver coated copper alloy

10: Length 914 mm mini (36" min) M22759 / 33 - 26 - 9 (White color insulation)
Insulation : Modified XL-ETFE / Conductor : AWG 26 silver coated high strength copper alloy

12: Length 914 mm mini (36" min) M22759 / 33 - 26 - * (10 colors repeating)
Insulation : Modified XL-ETFE / Conductor : AWG 26 silver coated high strength copper alloy

Length 72"

13: Length 1829 mm mini (72" min) M22759 / 11 - 26 - 9 (White color insulation)
Insulation : Extruded PTFE / Conductor : AWG 26 silver coated copper alloy

14: Length 1829 mm mini (72" min) M22759 / 11 - 26 - * (10 colors repeating)
Insulation : Extruded PTFE / Conductor : AWG 26 silver coated copper alloy

15: Length 1829 mm mini (72" min) M22759 / 33 - 26 - 9 (White color insulation)
Insulation : Modified XL-ETFE / Conductor : AWG 26 silver coated high strength copper alloy

16: Length 1829 mm mini (72" min) M22759 / 33 - 26 - * (10 colors repeating)
Insulation : Modified XL-ETFE / Conductor : AWG 26 silver coated high strength copper alloy

06: Pigtail length 25.4 mm mini (1" min) Uninsulated AWG 25 wire, gold plated copper alloy

*** Insulation color code per MIL - STD - 104**

0: BLACK
1: BROWN
2: RED
3: ORANGE
4: YELLOW
5: GREEN
6: BLUE
7: PURPLE
8: GRAY
9: WHITE

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Materials & Finishes

| Components | Materials | Finishes |
|------------------|--------------------------|--|
| Shell | Aluminum alloy | 13 µm min Electroless Nickel (SC2 / ASTM B733) |
| Insulator | LCP | UL 94-V0, Glass-filled, Black color |
| Female contacts | Copper alloy | 1.27 µm min Gold over Copper |
| Male contacts | Copper alloy | 1.27 µm min Gold over Copper |
| Interfacial seal | Fluorosilicone elastomer | Pink color |
| Dust cap | Polyethylene | Black color, antistatic |
| Encapsulant | Epoxy | Black color |
| Screwlocks | Stainless steel | Passivated |

Wire weight:

M22759 / 11 - 26 - * : 2.83 g / m

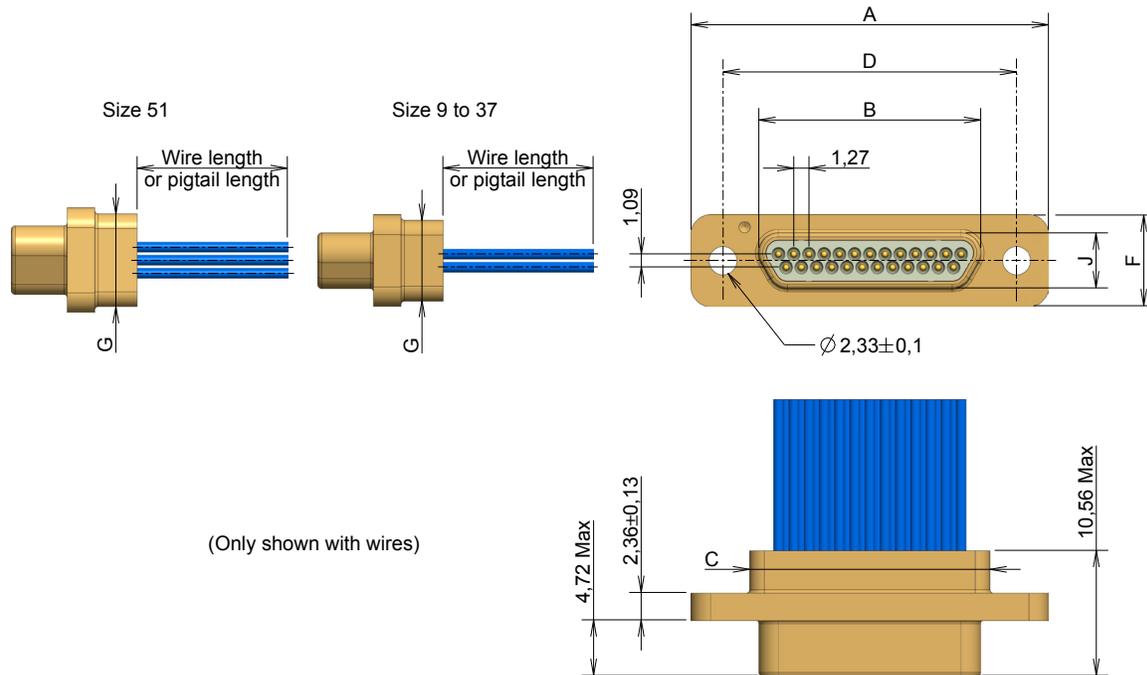
M22759 / 33 - 26 - * : 2.08 g / m

Uninsulated AWG 25 wire : 1.60 g / m

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Pin connector dimensions

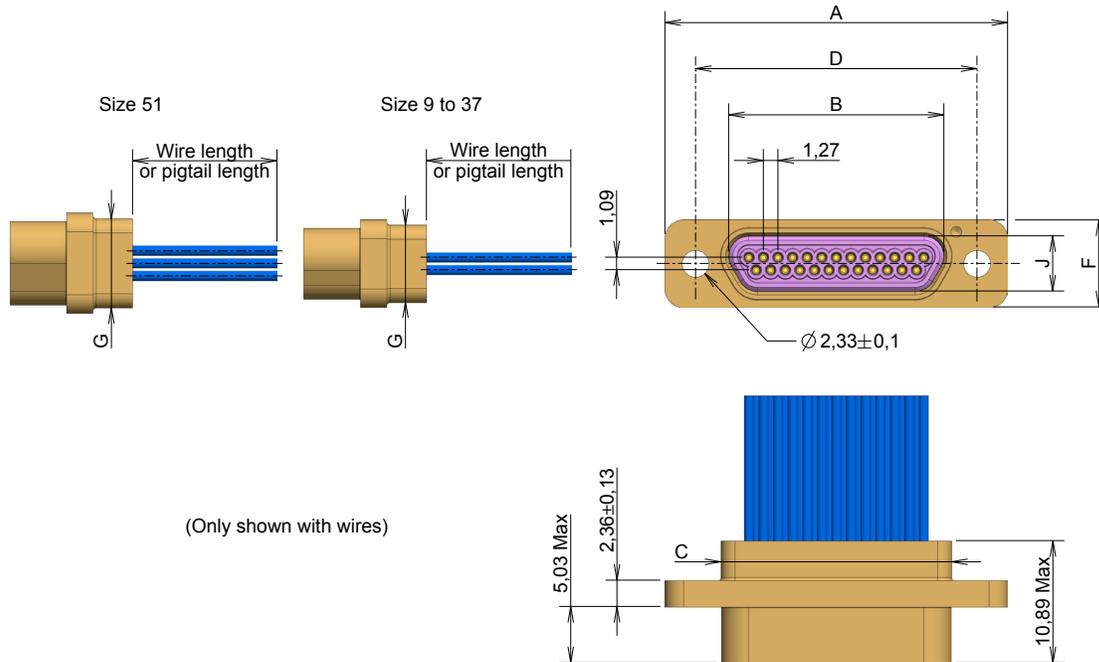


| Shell Size | A ±0.25 | B ±0.1 | C ±0.24 | D ±0.13 | F ±0.21 | G ±0.17 | J max |
|------------|------------|-----------|------------|------------|------------|------------|-------|
| 9P | 19.69 | 8.38 | 9.92 | 14.35 | 7.60 | 6.69 | 4.69 |
| 15P | 23.50 | 12.19 | 13.73 | 18.16 | 7.60 | 6.69 | 4.69 |
| 21P | 27.31 | 16.00 | 17.54 | 21.97 | 7.60 | 6.69 | 4.69 |
| 25P | 29.85 | 18.54 | 20.08 | 24.51 | 7.60 | 6.69 | 4.69 |
| 31P | 33.66 | 22.35 | 23.89 | 28.32 | 7.60 | 6.69 | 4.69 |
| 37P | 37.47 | 26.16 | 27.70 | 32.13 | 7.60 | 6.69 | 4.69 |
| 51P | 36.20 | 24.89 | 26.43 | 30.86 | 8.70 | 7.70 | 5.78 |

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Socket connector dimensions



| Shell Size | A ±0.25 | B min | C ±0.24 | D ±0.13 | F ±0.21 | G ±0.17 | J min |
|------------|------------|----------|------------|------------|------------|------------|-------|
| 9S | 19.69 | 8.49 | 9.92 | 14.35 | 7.60 | 6.69 | 4.71 |
| 15S | 23.50 | 12.30 | 13.73 | 18.16 | 7.60 | 6.69 | 4.71 |
| 21S | 27.31 | 16.11 | 17.54 | 21.97 | 7.60 | 6.69 | 4.71 |
| 25S | 29.85 | 18.65 | 20.08 | 24.51 | 7.60 | 6.69 | 4.71 |
| 31S | 33.66 | 22.46 | 23.89 | 28.32 | 7.60 | 6.69 | 4.71 |
| 37S | 37.47 | 26.27 | 27.70 | 32.13 | 7.60 | 6.69 | 4.71 |
| 51S | 36.20 | 25.00 | 26.43 | 30.86 | 8.70 | 7.70 | 5.80 |

MDM SeriesMicro D connectors, Wired type
MCMX - CS FR061**Accessories**

| Male screwlocks Low profile, Allen head (To be ordered separately) | MCMX description | P/N |
|--|---------------------------|--------------|
|  <p>Weight for one pair: 0.6 g max</p> | LF-MCMX-83513/05-02-FR061 | C115378-0001 |
| Male screwlocks High profile, Allen head (To be ordered separately) | MCMX description | P/N |
|  <p>Weight for one pair: 2.5 g max</p> | LF-MCMX-83513/05-03-FR061 | C115378-0003 |
| Male screwlocks Low profile, Slot head (To be ordered separately) | MCMX description | P/N |
|  <p>Weight for one pair: 0.55 g max</p> | LF-MCMX-83513/05-05-FR061 | C115378-0002 |
| Male screwlocks High profile, Slot head (To be ordered separately) | MCMX description | P/N |
|  <p>Weight for one pair: 2.45 g max</p> | LF-MCMX-83513/05-06-FR061 | C115378-0004 |

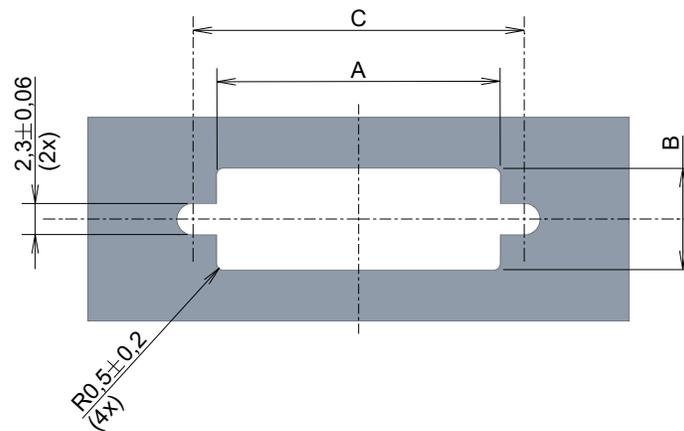
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In case of use on equipment side

| Female screwlocks (To be ordered separately) | MCMX description | P/N |
|---|---------------------------|--------------|
|  <p>Weight for one pair: 1.1 g max</p> | LF-MCMX-83513/05-07-FR061 | C115378-0000 |

Panel cutout



| Front panel mounting | | | |
|----------------------|------------|------------|-----------|
| Shell Size | A ±0.05 | B ±0.05 | C ±0.1 |
| 9 | 10.56 | 7.33 | 14.35 |
| 15 | 14.37 | 7.33 | 18.16 |
| 21 | 18.18 | 7.33 | 21.97 |
| 25 | 20.72 | 7.33 | 24.51 |
| 31 | 24.53 | 7.33 | 28.32 |
| 37 | 28.34 | 7.33 | 32.13 |
| 51 | 27.07 | 8.35 | 30.86 |

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Wired versions - Description and Part Numbers

| Shell plating | Contact type | Number of contacts | Wire type : 01: Length 457 mm mini (18" min) M22759 / 11 - 26 - 9 (White color insulation) Insulation : Extruded PTFE Conductor : AWG 26 silver coated copper alloy | |
|---------------|--------------|--------------------|---|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A01N-FR061 | C115378-1014 |
| | | 15 | LF-MCMX-83513/03-B01N-FR061 | C115378-1016 |
| | | 21 | LF-MCMX-83513/03-C01N-FR061 | C115378-1018 |
| | | 25 | LF-MCMX-83513/03-D01N-FR061 | C115378-1020 |
| | | 31 | LF-MCMX-83513/03-E01N-FR061 | C115378-1022 |
| | | 37 | LF-MCMX-83513/03-F01N-FR061 | C115378-1024 |
| | | 51 | LF-MCMX-83513/03-G01N-FR061 | C115378-1026 |
| | Socket | 9 | LF-MCMX-83513/04-A01N-FR061 | C115378-1015 |
| | | 15 | LF-MCMX-83513/04-B01N-FR061 | C115378-1017 |
| | | 21 | LF-MCMX-83513/04-C01N-FR061 | C115378-1019 |
| | | 25 | LF-MCMX-83513/04-D01N-FR061 | C115378-1021 |
| | | 31 | LF-MCMX-83513/04-E01N-FR061 | C115378-1023 |
| | | 37 | LF-MCMX-83513/04-F01N-FR061 | C115378-1025 |
| | | 51 | LF-MCMX-83513/04-G01N-FR061 | C115378-1027 |

| Shell plating | Contact type | Number of contacts | Wire type : 03: Length 457 mm mini (18" min) M22759 / 11 - 26 - * (10 colors repeating) Insulation : Extruded PTFE Conductor : AWG 26 silver coated copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A03N-FR061 | C115378-1042 |
| | | 15 | LF-MCMX-83513/03-B03N-FR061 | C115378-1044 |
| | | 21 | LF-MCMX-83513/03-C03N-FR061 | C115378-1046 |
| | | 25 | LF-MCMX-83513/03-D03N-FR061 | C115378-1048 |
| | | 31 | LF-MCMX-83513/03-E03N-FR061 | C115378-1050 |
| | | 37 | LF-MCMX-83513/03-F03N-FR061 | C115378-1052 |
| | | 51 | LF-MCMX-83513/03-G03N-FR061 | C115378-1054 |
| | Socket | 9 | LF-MCMX-83513/04-A03N-FR061 | C115378-1043 |
| | | 15 | LF-MCMX-83513/04-B03N-FR061 | C115378-1045 |
| | | 21 | LF-MCMX-83513/04-C03N-FR061 | C115378-1047 |
| | | 25 | LF-MCMX-83513/04-D03N-FR061 | C115378-1049 |
| | | 31 | LF-MCMX-83513/04-E03N-FR061 | C115378-1051 |
| | | 37 | LF-MCMX-83513/04-F03N-FR061 | C115378-1053 |
| | | 51 | LF-MCMX-83513/04-G03N-FR061 | C115378-1055 |

| Shell plating | Contact type | Number of contacts | Wire type : 09: Length 457 mm mini (18" min) M22759 / 33 - 26 - 9 (White color insulation) Insulation : Modified XL-ETFE Conductor : AWG 26 silver coated high strength copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A09N-FR061 | C115378-1084 |
| | | 15 | LF-MCMX-83513/03-B09N-FR061 | C115378-1086 |
| | | 21 | LF-MCMX-83513/03-C09N-FR061 | C115378-1088 |
| | | 25 | LF-MCMX-83513/03-D09N-FR061 | C115378-1090 |
| | | 31 | LF-MCMX-83513/03-E09N-FR061 | C115378-1092 |
| | | 37 | LF-MCMX-83513/03-F09N-FR061 | C115378-1094 |
| | | 51 | LF-MCMX-83513/03-G09N-FR061 | C115378-1096 |
| | Socket | 9 | LF-MCMX-83513/04-A09N-FR061 | C115378-1085 |
| | | 15 | LF-MCMX-83513/04-B09N-FR061 | C115378-1087 |
| | | 21 | LF-MCMX-83513/04-C09N-FR061 | C115378-1089 |
| | | 25 | LF-MCMX-83513/04-D09N-FR061 | C115378-1091 |
| | | 31 | LF-MCMX-83513/04-E09N-FR061 | C115378-1093 |
| | | 37 | LF-MCMX-83513/04-F09N-FR061 | C115378-1095 |
| | | 51 | LF-MCMX-83513/04-G09N-FR061 | C115378-1097 |

| Shell plating | Contact type | Number of contacts | Wire type : 11: Length 457 mm mini (18" min) M22759 / 33 - 26 - * (10 colors repeating) Insulation : Modified XL-ETFE Cond. : AWG 26 silver coated high strength copper alloy | |
|---------------|--------------|--------------------|---|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A11N-FR061 | C115378-1112 |
| | | 15 | LF-MCMX-83513/03-B11N-FR061 | C115378-1114 |
| | | 21 | LF-MCMX-83513/03-C11N-FR061 | C115378-1116 |
| | | 25 | LF-MCMX-83513/03-D11N-FR061 | C115378-1118 |
| | | 31 | LF-MCMX-83513/03-E11N-FR061 | C115378-1120 |
| | | 37 | LF-MCMX-83513/03-F11N-FR061 | C115378-1122 |
| | | 51 | LF-MCMX-83513/03-G11N-FR061 | C115378-1124 |
| | Socket | 9 | LF-MCMX-83513/04-A11N-FR061 | C115378-1113 |
| | | 15 | LF-MCMX-83513/04-B11N-FR061 | C115378-1115 |
| | | 21 | LF-MCMX-83513/04-C11N-FR061 | C115378-1117 |
| | | 25 | LF-MCMX-83513/04-D11N-FR061 | C115378-1119 |
| | | 31 | LF-MCMX-83513/04-E11N-FR061 | C115378-1121 |
| | | 37 | LF-MCMX-83513/04-F11N-FR061 | C115378-1123 |
| | | 51 | LF-MCMX-83513/04-G11N-FR061 | C115378-1125 |

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Wired versions - Description and Part Numbers

| Shell plating | Contact type | Number of contacts | Wire type : 02: Length 914 mm mini (36" min) M22759 / 11 - 26 - 9 (White color insulation) Insulation : Extruded PTFE Conductor : AWG 26 silver coated copper alloy | |
|---------------|--------------|--------------------|---|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A02N-FR061 | C115378-1028 |
| | | 15 | LF-MCMX-83513/03-B02N-FR061 | C115378-1030 |
| | | 21 | LF-MCMX-83513/03-C02N-FR061 | C115378-1032 |
| | | 25 | LF-MCMX-83513/03-D02N-FR061 | C115378-1034 |
| | | 31 | LF-MCMX-83513/03-E02N-FR061 | C115378-1036 |
| | | 37 | LF-MCMX-83513/03-F02N-FR061 | C115378-1038 |
| | | 51 | LF-MCMX-83513/03-G02N-FR061 | C115378-1040 |
| | Socket | 9 | LF-MCMX-83513/04-A02N-FR061 | C115378-1029 |
| | | 15 | LF-MCMX-83513/04-B02N-FR061 | C115378-1031 |
| | | 21 | LF-MCMX-83513/04-C02N-FR061 | C115378-1033 |
| | | 25 | LF-MCMX-83513/04-D02N-FR061 | C115378-1035 |
| | | 31 | LF-MCMX-83513/04-E02N-FR061 | C115378-1037 |
| | | 37 | LF-MCMX-83513/04-F02N-FR061 | C115378-1039 |
| | | 51 | LF-MCMX-83513/04-G02N-FR061 | C115378-1041 |

| Shell plating | Contact type | Number of contacts | Wire type : 04: Length 914 mm mini (36" min) M22759 / 11 - 26 - * (10 colors repeating) Insulation : Extruded PTFE Conductor : AWG 26 silver coated copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A04N-FR061 | C115378-1056 |
| | | 15 | LF-MCMX-83513/03-B04N-FR061 | C115378-1058 |
| | | 21 | LF-MCMX-83513/03-C04N-FR061 | C115378-1060 |
| | | 25 | LF-MCMX-83513/03-D04N-FR061 | C115378-1062 |
| | | 31 | LF-MCMX-83513/03-E04N-FR061 | C115378-1064 |
| | | 37 | LF-MCMX-83513/03-F04N-FR061 | C115378-1066 |
| | | 51 | LF-MCMX-83513/03-G04N-FR061 | C115378-1068 |
| | Socket | 9 | LF-MCMX-83513/04-A04N-FR061 | C115378-1057 |
| | | 15 | LF-MCMX-83513/04-B04N-FR061 | C115378-1059 |
| | | 21 | LF-MCMX-83513/04-C04N-FR061 | C115378-1061 |
| | | 25 | LF-MCMX-83513/04-D04N-FR061 | C115378-1063 |
| | | 31 | LF-MCMX-83513/04-E04N-FR061 | C115378-1065 |
| | | 37 | LF-MCMX-83513/04-F04N-FR061 | C115378-1067 |
| | | 51 | LF-MCMX-83513/04-G04N-FR061 | C115378-1069 |

| Shell plating | Contact type | Number of contacts | Wire type : 10: Length 914 mm mini (36" min) M22759 / 33 - 26 - 9 (White color insulation) Insulation : Modified XL-ETFE Cond. : AWG 26 silver coated high strength copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A10N-FR061 | C115378-1098 |
| | | 15 | LF-MCMX-83513/03-B10N-FR061 | C115378-1100 |
| | | 21 | LF-MCMX-83513/03-C10N-FR061 | C115378-1102 |
| | | 25 | LF-MCMX-83513/03-D10N-FR061 | C115378-1104 |
| | | 31 | LF-MCMX-83513/03-E10N-FR061 | C115378-1106 |
| | | 37 | LF-MCMX-83513/03-F10N-FR061 | C115378-1108 |
| | | 51 | LF-MCMX-83513/03-G10N-FR061 | C115378-1110 |
| | Socket | 9 | LF-MCMX-83513/04-A10N-FR061 | C115378-1099 |
| | | 15 | LF-MCMX-83513/04-B10N-FR061 | C115378-1101 |
| | | 21 | LF-MCMX-83513/04-C10N-FR061 | C115378-1103 |
| | | 25 | LF-MCMX-83513/04-D10N-FR061 | C115378-1105 |
| | | 31 | LF-MCMX-83513/04-E10N-FR061 | C115378-1107 |
| | | 37 | LF-MCMX-83513/04-F10N-FR061 | C115378-1109 |
| | | 51 | LF-MCMX-83513/04-G10N-FR061 | C115378-1111 |

| Shell plating | Contact type | Number of contacts | Wire type : 12: Length 914 mm mini (36" min) M22759 / 33 - 26 - * (10 colors repeating) Insulation : Modified XL-ETFE Cond. : AWG 26 silver coated high strength copper alloy | |
|---------------|--------------|--------------------|---|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A12N-FR061 | C115378-1126 |
| | | 15 | LF-MCMX-83513/03-B12N-FR061 | C115378-1128 |
| | | 21 | LF-MCMX-83513/03-C12N-FR061 | C115378-1130 |
| | | 25 | LF-MCMX-83513/03-D12N-FR061 | C115378-1132 |
| | | 31 | LF-MCMX-83513/03-E12N-FR061 | C115378-1134 |
| | | 37 | LF-MCMX-83513/03-F12N-FR061 | C115378-1136 |
| | | 51 | LF-MCMX-83513/03-G12N-FR061 | C115378-1138 |
| | Socket | 9 | LF-MCMX-83513/04-A12N-FR061 | C115378-1127 |
| | | 15 | LF-MCMX-83513/04-B12N-FR061 | C115378-1129 |
| | | 21 | LF-MCMX-83513/04-C12N-FR061 | C115378-1131 |
| | | 25 | LF-MCMX-83513/04-D12N-FR061 | C115378-1133 |
| | | 31 | LF-MCMX-83513/04-E12N-FR061 | C115378-1135 |
| | | 37 | LF-MCMX-83513/04-F12N-FR061 | C115378-1137 |
| | | 51 | LF-MCMX-83513/04-G12N-FR061 | C115378-1139 |

MDM Series

Micro D connectors, Wired type
MCMX - CS FR061

Wired versions - Description and Part Numbers

| Shell plating | Contact type | Number of contacts | Wire type : 13: Length 1829 mm mini (72" min) M22759 / 11 - 26 - 9 (White color insulation) Insulation : Extruded PTFE Conductor : AWG 26 silver coated copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A13N-FR061 | C115378-1140 |
| | | 15 | LF-MCMX-83513/03-B13N-FR061 | C115378-1142 |
| | | 21 | LF-MCMX-83513/03-C13N-FR061 | C115378-1144 |
| | | 25 | LF-MCMX-83513/03-D13N-FR061 | C115378-1146 |
| | | 31 | LF-MCMX-83513/03-E13N-FR061 | C115378-1148 |
| | | 37 | LF-MCMX-83513/03-F13N-FR061 | C115378-1150 |
| | | 51 | LF-MCMX-83513/03-G13N-FR061 | C115378-1152 |
| | Socket | 9 | LF-MCMX-83513/04-A13N-FR061 | C115378-1141 |
| | | 15 | LF-MCMX-83513/04-B13N-FR061 | C115378-1143 |
| | | 21 | LF-MCMX-83513/04-C13N-FR061 | C115378-1145 |
| | | 25 | LF-MCMX-83513/04-D13N-FR061 | C115378-1147 |
| | | 31 | LF-MCMX-83513/04-E13N-FR061 | C115378-1149 |
| | | 37 | LF-MCMX-83513/04-F13N-FR061 | C115378-1151 |
| | | 51 | LF-MCMX-83513/04-G13N-FR061 | C115378-1153 |

| Shell plating | Contact type | Number of contacts | Wire type : 14: Length 1829 mm mini (72" min) M22759 / 11 - 26 - * (10 colors repeating) Insulation : Extruded PTFE Conductor : AWG 26 silver coated copper alloy | |
|---------------|--------------|--------------------|---|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A14N-FR061 | C115378-1154 |
| | | 15 | LF-MCMX-83513/03-B14N-FR061 | C115378-1156 |
| | | 21 | LF-MCMX-83513/03-C14N-FR061 | C115378-1158 |
| | | 25 | LF-MCMX-83513/03-D14N-FR061 | C115378-1160 |
| | | 31 | LF-MCMX-83513/03-E14N-FR061 | C115378-1162 |
| | | 37 | LF-MCMX-83513/03-F14N-FR061 | C115378-1164 |
| | | 51 | LF-MCMX-83513/03-G14N-FR061 | C115378-1166 |
| | Socket | 9 | LF-MCMX-83513/04-A14N-FR061 | C115378-1155 |
| | | 15 | LF-MCMX-83513/04-B14N-FR061 | C115378-1157 |
| | | 21 | LF-MCMX-83513/04-C14N-FR061 | C115378-1159 |
| | | 25 | LF-MCMX-83513/04-D14N-FR061 | C115378-1161 |
| | | 31 | LF-MCMX-83513/04-E14N-FR061 | C115378-1163 |
| | | 37 | LF-MCMX-83513/04-F14N-FR061 | C115378-1165 |
| | | 51 | LF-MCMX-83513/04-G14N-FR061 | C115378-1167 |

| Shell plating | Contact type | Number of contacts | Wire type : 15: Length 1829 mm mini (72" min) M22759 / 33 - 26 - 9 (White color insulation) Insulation : Modified XL-ETFE Cond. : AWG 26 silver coated high strength copper alloy | |
|---------------|--------------|--------------------|---|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A15N-FR061 | C115378-1168 |
| | | 15 | LF-MCMX-83513/03-B15N-FR061 | C115378-1170 |
| | | 21 | LF-MCMX-83513/03-C15N-FR061 | C115378-1172 |
| | | 25 | LF-MCMX-83513/03-D15N-FR061 | C115378-1174 |
| | | 31 | LF-MCMX-83513/03-E15N-FR061 | C115378-1176 |
| | | 37 | LF-MCMX-83513/03-F15N-FR061 | C115378-1178 |
| | | 51 | LF-MCMX-83513/03-G15N-FR061 | C115378-1180 |
| | Socket | 9 | LF-MCMX-83513/04-A15N-FR061 | C115378-1169 |
| | | 15 | LF-MCMX-83513/04-B15N-FR061 | C115378-1171 |
| | | 21 | LF-MCMX-83513/04-C15N-FR061 | C115378-1173 |
| | | 25 | LF-MCMX-83513/04-D15N-FR061 | C115378-1175 |
| | | 31 | LF-MCMX-83513/04-E15N-FR061 | C115378-1177 |
| | | 37 | LF-MCMX-83513/04-F15N-FR061 | C115378-1179 |
| | | 51 | LF-MCMX-83513/04-G15N-FR061 | C115378-1181 |

| Shell plating | Contact type | Number of contacts | Wire type : 16: Length 1829 mm mini (72" min) M22759 / 33 - 26 - * (10 colors repeating) Insulation : Modified XL-ETFE Cond. : AWG 26 silver coated high strength copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A16N-FR061 | C115378-1182 |
| | | 15 | LF-MCMX-83513/03-B16N-FR061 | C115378-1184 |
| | | 21 | LF-MCMX-83513/03-C16N-FR061 | C115378-1186 |
| | | 25 | LF-MCMX-83513/03-D16N-FR061 | C115378-1188 |
| | | 31 | LF-MCMX-83513/03-E16N-FR061 | C115378-1190 |
| | | 37 | LF-MCMX-83513/03-F16N-FR061 | C115378-1192 |
| | | 51 | LF-MCMX-83513/03-G16N-FR061 | C115378-1194 |
| | Socket | 9 | LF-MCMX-83513/04-A16N-FR061 | C115378-1183 |
| | | 15 | LF-MCMX-83513/04-B16N-FR061 | C115378-1185 |
| | | 21 | LF-MCMX-83513/04-C16N-FR061 | C115378-1187 |
| | | 25 | LF-MCMX-83513/04-D16N-FR061 | C115378-1189 |
| | | 31 | LF-MCMX-83513/04-E16N-FR061 | C115378-1191 |
| | | 37 | LF-MCMX-83513/04-F16N-FR061 | C115378-1193 |
| | | 51 | LF-MCMX-83513/04-G16N-FR061 | C115378-1195 |

MDM Series

Micro D connectors, Wired type
MCMX - CS FR061

Pigtail versions - Description and Part Numbers

| Shell plating | Contact type | Number of contacts | Wire type : 06: Pigtail length 25.4 mm mini (1" min) Uninsulated AWG 25 wire, gold plated copper alloy | |
|---------------|--------------|--------------------|--|--------------|
| | | | MCMX description | P/N |
| Nickel plated | Pin | 9 | LF-MCMX-83513/03-A06N-FR061 | C115378-1070 |
| | | 15 | LF-MCMX-83513/03-B06N-FR061 | C115378-1072 |
| | | 21 | LF-MCMX-83513/03-C06N-FR061 | C115378-1074 |
| | | 25 | LF-MCMX-83513/03-D06N-FR061 | C115378-1076 |
| | | 31 | LF-MCMX-83513/03-E06N-FR061 | C115378-1078 |
| | | 37 | LF-MCMX-83513/03-F06N-FR061 | C115378-1080 |
| | | 51 | LF-MCMX-83513/03-G06N-FR061 | C115378-1082 |
| | Socket | 9 | LF-MCMX-83513/04-A06N-FR061 | C115378-1071 |
| | | 15 | LF-MCMX-83513/04-B06N-FR061 | C115378-1073 |
| | | 21 | LF-MCMX-83513/04-C06N-FR061 | C115378-1075 |
| | | 25 | LF-MCMX-83513/04-D06N-FR061 | C115378-1077 |
| | | 31 | LF-MCMX-83513/04-E06N-FR061 | C115378-1079 |
| | | 37 | LF-MCMX-83513/04-F06N-FR061 | C115378-1081 |
| | | 51 | LF-MCMX-83513/04-G06N-FR061 | C115378-1083 |