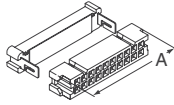


**3M**

**.100" x .100" (2.54mm x 2.54mm) Socket Connectors**



**A**

**Physical Specifications:**

• Insulation Material: Glass reinforced polyester • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating: 30µ gold • Wire Accommodation: 26 and 28AWG solid or stranded • Marking: 3M logo, part identification number and orientation triangle

**Electrical Specifications:**

• Current Rating: 1A • Insulation Resistance: >1x10<sup>10</sup> @ 500VDC • Withstanding Voltage: 1000V RMS @ sea level

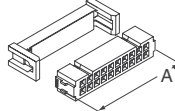
**Environmental Specifications:**

• Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1 10	3M Part No.
<b>Polarizing Slots (Open End)</b>				
10	.68 (17.27)	MSC10K-ND	2.46 18.64	3473-6000
14	.88 (22.35)	MSC14K-ND	2.97 22.52	3385-6000
16	.98 (24.89)	MSC16K-ND	3.25 24.66	3452-6000
20	1.18 (29.97)	MSC20K-ND	3.59 27.18	3421-6000
24	1.38 (35.05)	MSC24K-ND	4.30 32.61	3626-6000
26	1.48 (37.59)	MSC26K-ND	4.63 35.14	3399-6000
30	1.68 (42.67)	MSC30K-ND	5.33 40.38	3419-6000
34	1.88 (47.75)	MSC34K-ND	6.05 45.82	3414-6000
40	2.18 (55.37)	MSC40K-ND	7.10 53.78	3417-6000
50	2.68 (68.07)	MSC50K-ND	8.86 67.17	3425-6000
60	3.18 (80.77)	MSC60K-ND	10.99 83.29	3334-6000
<b>Center-Bumped Polarizing (Open End)</b>				
10	.68 (17.27)	MKC10K-ND	2.46 18.64	3473-6600
14	.88 (22.35)	MKC14K-ND	2.97 22.52	3385-6600
16	.98 (24.89)	MKC16K-ND	3.25 24.66	3452-6600
20	1.18 (29.97)	MKC20K-ND	3.59 27.18	3421-6600
24	1.38 (35.05)	MKC24K-ND	4.30 32.61	3626-6600
26	1.48 (37.59)	MKC26K-ND	4.63 35.14	3399-6600
30	1.68 (42.67)	MKC30K-ND	5.33 40.38	3419-6600
34	1.88 (47.75)	MKC34K-ND	6.05 45.82	3414-6600
40	2.18 (55.37)	MKC40K-ND	7.10 53.78	3417-6600
50	2.68 (68.07)	MKC50K-ND	8.86 67.17	3425-6600
60	3.18 (80.77)	MKC60K-ND	10.99 83.29	3334-6600
<b>Center-Bumped Polarizing (Closed End)</b>				
10	.68 (17.27)	MSD10K-ND	2.61 19.80	3473-7600
14	.88 (22.35)	MSD14K-ND	3.28 24.85	3385-7600
16	.98 (24.89)	MSD16K-ND	3.43 26.01	3452-7600
20	1.18 (29.97)	MSD20K-ND	3.77 28.54	3421-7600
24	1.38 (35.05)	MSD24K-ND	4.51 34.17	3626-7600
26	1.48 (37.59)	MSD26K-ND	4.89 37.08	3399-7600
30	1.68 (42.67)	MSD30K-ND	5.61 42.52	3419-7600
34	1.88 (47.75)	MSD34K-ND	6.30 47.76	3414-7600
40	2.18 (55.37)	MSD40K-ND	7.40 56.11	3417-7600
50	2.68 (68.07)	MSD50K-ND	9.22 69.89	3425-7600
60	3.18 (80.77)	MSD60K-ND	11.40 86.39	3334-7600
<b>Cable Strain Relief/Stabilizer</b>				
10	—	MSSR10-ND	.31 2.33	3448-3010
14	—	MSSR14-ND	.31 2.33	3448-3014
16	—	MSSR16-ND	.31 2.33	3448-3016
20	—	MSSR20-ND	.31 2.33	3448-3020
24	—	MSSR24-ND	.41 3.11	3448-3024
26	—	MSSR26-ND	.31 2.33	3448-3026
30	—	MSSR30-ND	.56 4.27	3448-3030
34	—	MSSR34-ND	.31 2.33	3448-3034
40	—	MSSR40-ND	.31 2.33	3448-3040
50	—	MSSR50-ND	.31 2.33	3448-3050
60	—	MSSR60-ND	.33 2.53	3448-3060
<b>Keying Plug</b>				
Keying Plug for Socket		3M9123-ND	.071	3435-0
<b>Pull Tabs</b>				
9, 10, 14, 15, 16 Pos. Socket		3M9438-ND	.17 1.45	3490-1
20, 24, 25, 26 Pos. Socket		3M9439-ND	.21 1.73	3490-2
28, 34, 36 Position Socket		3M9440-ND	.24 2.02	3490-3
36, 37, 40 Position Socket		3M9441-ND	.31 2.60	3490-4
50 and 60 Position Socket		3M9442-ND	.35 2.89	3490-5
<b>Tooling</b>				
Bench Press Assembly Tool		3M9426-ND	372.68/1	3640
Cable Shear for 3640		3M9427-ND	1144.97/1	3320
Tool Platen Assembly		3M9433-ND	79.93/1	3442-9
Locator Plate Socket 3000		3M9443-ND	582.40/1	3443-94

**3M**

**891 Series and D89 Series .100" x .100" (2.54mm x 2.54mm) Socket Connectors**

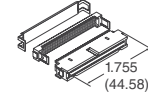


These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. These interconnects also offer the quality and reliability you'd expect from 3M. They have been engineered with a "systems" approach that has a positive impact on your process and product costs. **Physical Specifications:** • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Marking: Molded Figures: 3M logo and orientation triangle • Pins: Phosphor bronze • Wire Accommodation: 26AWG and 28AWG stranded **891 Series** • Color: Gray • Contact Plating: Wipe Area: 30µ gold • Underplate: 50µ nickel, QQ-N-290, Class 2 **D89 Series** • Color: Black • Contact Plating: Wipe Area: 10µ gold • Underplate: 50µ nickel **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10<sup>10</sup> @ 500VDC • Withstanding Voltage: 1000V RMS @ Sea Level **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C • UL File No.: E68080

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1 10	3M Part No.
<b>891 Series, without Center Bump - 30µ" Gold</b>				
10	.68 (17.3)	MSC10A-ND	.79 6.02	89110-0001
14	.88 (22.4)	MSC14A-ND	.82 6.21	89114-0001
16	.98 (24.9)	MSC16A-ND	.84 6.41	89116-0001
20	1.18 (30.0)	MSC20A-ND	.93 6.99	89120-0001
24	1.38 (35.1)	MSC24A-ND	1.35 10.29	89124-0001
26	1.48 (37.6)	MSC26A-ND	1.05 7.96	89126-0001
30	1.68 (42.7)	MSC30A-ND	1.26 9.52	89130-0001
34	1.88 (47.8)	MSC34A-ND	1.18 8.93	89134-0001
40	2.18 (55.4)	MSC40A-ND	1.59 12.04	89140-0001
50	2.68 (68.1)	MSC50A-ND	1.72 13.01	89150-0001
60	3.18 (80.8)	MSC60A-ND	1.77 13.40	89160-0001
<b>891 Series, with Center Bump - 30µ" Gold</b>				
10	.68 (17.3)	MKC10A-ND	.79 6.02	89110-0101
14	.88 (22.4)	MKC14A-ND	.82 6.21	89114-0101
16	.98 (24.9)	MKC16A-ND	.84 6.41	89116-0101
20	1.18 (30.0)	MKC20A-ND	.93 6.99	89120-0101
24	1.38 (35.1)	MKC24A-ND	1.21 9.13	89124-0101
26	1.48 (37.6)	MKC26A-ND	1.05 7.96	89126-0101
30	1.68 (42.7)	MKC30A-ND	1.18 8.93	89130-0101
34	1.88 (47.8)	MKC34A-ND	1.18 8.93	89134-0101
40	2.18 (55.4)	MKC40A-ND	1.59 12.04	89140-0101
50	2.68 (68.1)	MKC50A-ND	1.72 13.01	89150-0101
60	3.18 (80.8)	MKC60A-ND	1.77 13.40	89160-0101
<b>891 Series Strain Reliefs</b>				
10	—	MKSR10-ND	.23 1.75	3448-89110
14	—	MKSR14-ND	.23 1.75	3448-89114
16	—	MKSR16-ND	.23 1.75	3448-89116
20	—	MKSR20-ND	.23 1.75	3448-89120
24	—	MKSR24-ND	.36 2.72	3448-89124
26	—	MKSR26-ND	.23 1.75	3448-89126
30	—	MKSR30-ND	.36 2.72	3448-89130
34	—	MKSR34-ND	.23 1.75	3448-89134
40	—	MKSR40-ND	.23 1.75	3448-89140
50	—	MKSR50-ND	.23 1.75	3448-89150
60	—	MKSR60-ND	.33 2.53	3448-89160
<b>D89 Series, without Center Bump - 10µ" Gold</b>				
10	.68 (17.3)	MSC10E-ND	.33 2.75	D89110-0031HK
14	.88 (22.4)	MSC14E-ND	.46 3.91	D89114-0031HK
16	.98 (24.9)	MSC16E-ND	.45 3.76	D89116-0031HK
20	1.18 (30.0)	MSC20E-ND	.46 3.91	D89120-0031HK
24	1.38 (35.1)	MSC24E-ND	.48 4.05	D89124-0031HK
26	1.48 (37.6)	MSC26E-ND	.48 4.05	D89126-0031HK
30	1.68 (42.7)	MSC30E-ND	.53 4.49	D89130-0031HK
34	1.88 (47.8)	MSC34E-ND	.60 5.06	D89134-0031HK
40	2.18 (55.4)	MSC40E-ND	.70 5.93	D89140-0031HK
50	2.68 (68.1)	MSC50E-ND	.88 7.38	D89150-0031HK
<b>D89 Series, with Center Bump - 10µ" Gold</b>				
10	.68 (17.3)	MKC10E-ND	.33 2.75	D89110-0131HK
14	.88 (22.4)	MKC14E-ND	.46 3.91	D89114-0131HK
16	.98 (24.9)	MKC16E-ND	.45 3.76	D89116-0131HK
20	1.18 (30.0)	MKC20E-ND	.46 3.91	D89120-0131HK
24	1.38 (35.1)	MKC24E-ND	.48 4.05	D89124-0131HK
26	1.48 (37.6)	MKC26E-ND	.48 4.05	D89126-0131HK
30	1.68 (42.7)	MKC30E-ND	.53 4.49	D89130-0131HK
34	1.88 (47.8)	MKC34E-ND	.60 5.06	D89134-0131HK
40	2.18 (55.4)	MKC40E-ND	.70 5.93	D89140-0131HK
50	2.68 (68.1)	MKC50E-ND	.88 7.38	D89150-0131HK
<b>D89 Series Strain Reliefs</b>				
10	—	MESR10-ND	.16 1.31	D3448-89110
14	—	MESR14-ND	.16 1.31	D3448-89114
16	—	MESR16-ND	.16 1.31	D3448-89116
20	—	MESR20-ND	.16 1.31	D3448-89120
24	—	MESR24-ND	.16 1.31	D3448-89124
26	—	MESR26-ND	.16 1.31	D3448-89126
30	—	MESR30-ND	.16 1.31	D3448-89130
34	—	MESR34-ND	.16 1.31	D3448-89134
40	—	MESR40-ND	.16 1.31	D3448-89140
50	—	MESR50-ND	.16 1.31	D3448-89150
<b>Keying Plug</b>				
Keying Plug for Socket		3M9123-ND	.071	3435-0
<b>Pull Tabs</b>				
10-20 Position D89 and 891		3M9435-ND	.12 1.02	3490-89110
24-36 Position D89 and 891		3M9436-ND	.27 2.31	3490-89124
40-60 Position D89 and 891		3M9437-ND	.19 1.59	3490-89140
<b>Tooling</b>				
Bench Press Assembly Tool		3M9426-ND	372.68/1	3640
Cable Shear for 3640		3M9427-ND	1144.97/1	3320
Tool Platen Assembly		3M9433-ND	79.93/1	3442-9
Locator Plate Socket 3000		3M9434-ND	452.29/1	3443-107N

**3M**

**820 Series Tripolarized Wiremount Socket .050" x .100" (1.27mm x 2.54mm) Pitch Cable**

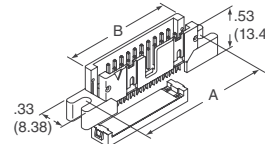


**Physical Specifications:** • Insulation Material: Glass filled polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating: Underplating: 100µ nickel • Wiping Area: 30µ gold • Wire Accommodation: 30AWG solid, plated foil or stranded • Marking: 3M logo and orientation triangle **Electrical Specifications:** • Current Rating: 0.5A • Insulation Resistance: >1x10<sup>10</sup> @ 500VDC • Withstanding Voltage: 500V RMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C

No. of Contacts	Digi-Key Part No.	Price Each 1 100	3M Part No.
60	3M9644-ND	1.55 8.78	82060-6006RB

**3M**

**.100" x .100" (2.54mm x 2.54mm) Plug Connectors**



**Physical Specifications:** • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Copper Alloy • Latch Eject Headers: Copper alloy • Plating: 30µ gold • Wire Accommodation: 26 and 28AWG solid or stranded **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10<sup>10</sup> @ 500VDC • Withstanding Voltage: 1000V RMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dimension - Inch (mm)		Digi-Key Part No.	Pricing 1 10	3M Part No.
<b>With Slotted Mounting Flanges</b>					
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	3.63 27.57	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	5.05 38.25	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	5.71 43.30	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	6.66 50.47	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	7.33 55.52	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	7.58 57.46	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	8.33 63.10</	