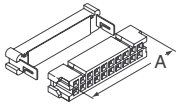


3M .100" x .100" (2.54mm x 2.54mm) Socket Connectors



Wire Accommodation: 26, 28, 30AWG solid or stranded.

Physical Specifications: • Insulation Material: Glass reinforced polyester • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid • Marking: 3M logo, part identification number and orientation triangle **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ 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		3M Part No.
			1	10	
Polarizing Slots (Open End)					
10	.68 (17.27)	MSC10K-ND	2.00	16.80	3473-6000
14	.88 (22.35)	MSC14K-ND	2.41	20.30	3385-6000
16	.98 (24.89)	MSC16K-ND	2.64	22.23	3452-6000
20	1.18 (29.97)	MSC20K-ND	2.91	24.50	3421-6000
24	1.38 (35.05)	MSC24K-ND	3.49	29.40	3626-6000
26	1.48 (37.59)	MSC26K-ND	3.76	31.68	3399-6000
30	1.68 (42.67)	MSC30K-ND	4.33	36.40	3419-6000
34	1.88 (47.75)	MSC34K-ND	4.91	41.30	3414-6000
40	2.18 (55.37)	MSC40K-ND	5.76	48.48	3417-6000
50	2.68 (68.07)	MSC50K-ND	7.20	60.55	3425-6000
60	3.18 (80.77)	MSC60K-ND	8.92	75.08	3334-6000

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
Center-Bumped Polarizing (Open End)					
10	.68 (17.27)	MKC10K-ND	2.00	16.80	3473-6000
14	.88 (22.35)	MKC14K-ND	2.41	20.30	3385-6000
16	.98 (24.89)	MKC16K-ND	2.64	22.23	3452-6000
20	1.18 (29.97)	MKC20K-ND	2.91	24.50	3421-6000
24	1.38 (35.05)	MKC24K-ND	3.49	29.40	3626-6000
26	1.48 (37.59)	MKC26K-ND	3.76	31.68	3399-6000
30	1.68 (42.67)	MKC30K-ND	4.33	36.40	3419-6000
34	1.88 (47.75)	MKC34K-ND	4.91	41.30	3414-6000
40	2.18 (55.37)	MKC40K-ND	5.76	48.48	3417-6000
50	2.68 (68.07)	MKC50K-ND	7.20	60.55	3425-6000
60	3.18 (80.77)	MKC60K-ND	8.92	75.08	3334-6000

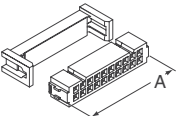
No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
Center-Bumped Polarizing (Closed End)					
10	.68 (17.27)	MSD10K-ND	2.12	17.85	3473-7600
14	.88 (22.35)	MSD14K-ND	2.66	22.40	3385-7600
16	.98 (24.89)	MSD16K-ND	2.79	23.45	3452-7600
20	1.18 (29.97)	MSD20K-ND	3.06	25.73	3421-7600
24	1.38 (35.05)	MSD24K-ND	3.66	30.80	3626-7600
26	1.48 (37.59)	MSD26K-ND	3.97	33.43	3399-7600
30	1.68 (42.67)	MSD30K-ND	4.56	38.33	3419-7600
34	1.88 (47.75)	MSD34K-ND	5.12	43.05	3414-7600
40	2.18 (55.37)	MSD40K-ND	6.01	50.58	3417-7600
50	2.68 (68.07)	MSD50K-ND	7.49	63.00	3425-7600
60	3.18 (80.77)	MSD60K-ND	9.26	77.88	3334-7600

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
Cable Strain Relief/Stabilizer					
10	—	MSSR10-ND	.25	2.10	3448-3010
14	—	MSSR14-ND	.25	2.10	3448-3014
16	—	MSSR16-ND	.25	2.10	3448-3016
20	—	MSSR20-ND	.25	2.10	3448-3020
24	—	MSSR24-ND	.25	2.10	3448-3024
26	—	MSSR26-ND	.25	2.10	3448-3026
30	—	MSSR30-ND	.25	2.10	3448-3030
34	—	MSSR34-ND	.25	2.10	3448-3034
40	—	MSSR40-ND	.25	2.10	3448-3040
50	—	MSSR50-ND	.25	2.10	3448-3050
60	—	MSSR60-ND	.25	2.10	3448-3060

3M Series 89, .100" x .100" (2.54mm x 2.54mm) Socket Connectors



These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. The Series 89 IDC socket is part of a new line of standard-performance interconnects specifically designed to help electronic equipment manufacturers hold down applied assembly costs. 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 • Color: Gray • Marking: Molded Figures: 3M logo and orientation triangle • Pins: Phosphor bronze • Contact Plating: Wipe Area: 30µ" gold, MIL-G-45204, Type II, Grade C • Underplate: 100µ" nickel, QQ-N-290, Class 2 • Wire Accommodation: 28AWG stranded **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ Sea Level **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR40971



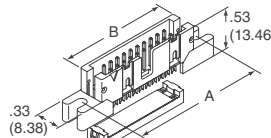
No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
IDC Socket Gold					
10	.68 (17.27)	MSC10A-ND	1.09	8.84	89110-0001
14	.88 (22.35)	MSC14A-ND	1.12	9.12	89114-0001

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
16	.98 (24.89)	MSC16A-ND	1.16	9.41	89116-0001
20	1.18 (29.97)	MSC20A-ND	1.26	10.26	89120-0001
24	1.38 (35.05)	MSC24A-ND	1.40	11.40	89124-0001
26	1.48 (37.59)	MSC26A-ND	1.44	11.69	89126-0001
30	1.68 (42.67)	MSC30A-ND	1.58	12.83	89130-0001
34	1.88 (47.75)	MSC34A-ND	1.61	13.11	89134-0001
40	2.18 (55.37)	MSC40A-ND	2.17	17.67	89140-0001
50	2.68 (68.07)	MSC50A-ND	2.35	19.10	89150-0001
60	3.18 (80.77)	MSC60A-ND	2.42	19.67	89160-0001

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
IDC Socket Gold, Polarizing					
10	.68 (17.27)	MKC10A-ND	1.09	8.84	89110-0101
14	.88 (22.35)	MKC14A-ND	1.12	9.12	89114-0101
16	.98 (24.89)	MKC16A-ND	1.16	9.41	89116-0101
20	1.18 (29.97)	MKC20A-ND	1.26	10.26	89120-0101
24	1.38 (35.05)	MKC24A-ND	1.40	11.40	89124-0101
26	1.48 (37.59)	MKC26A-ND	1.44	11.69	89126-0101
30	1.68 (42.67)	MKC30A-ND	1.58	12.83	89130-0101
34	1.88 (47.75)	MKC34A-ND	1.61	13.11	89134-0101
40	2.18 (55.37)	MKC40A-ND	2.17	17.67	89140-0101
50	2.68 (68.07)	MKC50A-ND	2.35	19.10	89150-0101
60	3.18 (80.77)	MKC60A-ND	2.42	19.67	89160-0101

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
Strain Relief					
10	—	MKSR10-ND	.28	2.28	3448-89110
14	—	MKSR14-ND	.28	2.28	3448-89114
16	—	MKSR16-ND	.28	2.28	3448-89116
20	—	MKSR20-ND	.28	2.28	3448-89120
24	—	MKSR24-ND	.28	2.28	3448-89124
26	—	MKSR26-ND	.28	2.28	3448-89126
30	—	MKSR30-ND	.28	2.28	3448-89130
34	—	MKSR34-ND	.28	2.28	3448-89134
40	—	MKSR40-ND	.28	2.28	3448-89140
50	—	MKSR50-ND	.28	2.28	3448-89150
60	—	MKSR60-ND	.28	2.28	3448-89160

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: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ 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		3M Part No.
	A	B		1	10	
With Slotted Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	2.95	24.85	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	4.10	34.48	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	4.64	39.03	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	5.41	45.50	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	5.95	50.05	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	6.16	51.80	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	6.76	56.88	4630-6000
34	2.40 (60.96)	2.10 (53.34)	MPL34K-ND	7.63	64.23	4634-6000
36	2.50 (63.50)	2.20 (55.88)	MPL36K-ND	8.07	67.90	4636-6000
40	2.70 (68.58)	2.40 (60.96)	MPL40K-ND	8.47	71.23	4640-6000
50	3.20 (81.28)	2.90 (73.66)	MPL50K-ND	9.17	77.18	4650-6000
60	3.70 (93.98)	3.40 (86.36)	MPL60K-ND	10.82	91.00	4660-6000
64	3.90 (99.06)	3.60 (91.44)	MPL64K-ND	11.54	97.13	4664-6000

No. of Cont.	Dimension - Inch (mm)		Digi-Key Part No.	Pricing		3M Part No.
	A	B		1	10	
Without Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPK10K-ND	2.95	24.85	4610-6051
14	1.40 (35.56)	1.10 (27.94)	MPK14K-ND	4.10	34.48	4614-6001
16	1.50 (38.10)	1.20 (30.48)	MPK16K-ND	4.64	39.03	4616-6001
20	1.70 (43.18)	1.40 (35.56)	MPK20K-ND	5.41	45.50	4620-6001
24	1.90 (48.26)	1.60 (40.64)	MPK24K-ND	5.95	50.05	4624-6001
26	2.00 (50.80)	1.70 (43.18)	MPK26K-ND	6.16	51.80	4626-6001
30	2.20 (55.88)	1.90 (48.26)	MPK30K-ND	6.76	56.88	4630-6001
34	2.40 (60.96)	2.10 (53.34)	MPK34K-ND	7.63	64.23	4634-6001
36	2.50 (63.50)	2.20 (55.88)	MPK36K-ND	8.07	67.90	4636-6001
40	2.70 (68.58)	2.40 (60.96)	MPK40K-ND	8.47	71.23	4640-6001
50	3.20 (81.28)	2.90 (73.66)	MPK50K-ND	9.17	77.18	4650-6001
60	3.70 (93.98)	3.40 (86.36)	MPK60K-ND	10.82	91.00	4660-6001
64	3.90 (99.06)	3.60 (91.44)	MPK64K-ND	11.54	97.13	4664-6001

No. of Cont.	Dimension - Inch (mm)		Digi-Key Part No.	Pricing		3M Part No.
	A	B		1	10	
Strain Reliefs						
10	—	—	MPSR10-ND	.58	4.90	3448-4610
14	—	—	MPSR14-ND	.69	5.78	3448-4614

No. of Cont.	Dimension - Inch (mm)		Digi-Key Part No.	Pricing		3M Part No.
	A	B		1	10	
16	—	—	MPSR16-ND	.69	5.78	3448-4616
20	—	—	MPSR20-ND	.69	5.78	3448-4620
24	—	—	MPSR24-ND	.69	5.78	3448-4624
26	—	—	MPSR26-ND	.69	5.78	3448-4626
30	—	—	MPSR30-ND	.69	5.78	3448-4630</