



ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 8

| STEP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--|------|------|---|----|----|---|----|---|--|
| EXAMPLE | SCBM | 17W2 | S | 55 | R7 | N | T2 | G | |
| STEP 1 - BASIC SERIES SCBM series | | | | | | | | | STEP 9 - SPECIAL OPTIONS SEE APPENDIX ON PAGE 95. |
| STEP 2 - CONNECTOR VARIANTS Shell Size 1 - 2WK2, 5W1 Shell Size 2 - 3W3, 3WK3, 7W2, 11W1 Shell Size 3 - 5W5, 9W4, 13W3, 17W2, 21W1 Shell Size 4 - 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Shell Size 5 - 24W7, 36W4, 43W2, 47W1 Shell Size 6 - 46W4 | | | | | | | | | STEP 8 - CONNECTOR HOUSING (SHELLS) OPTION G - Gold over copper plate. D - Gold over copper plate and dimpled (<i>male connectors only</i>). |
| STEP 3 - CONNECTOR GENDER M - Male S - Female - PosiBand closed entry contacts, see page 1 for more information. | | | | | | | | | *3 STEP 7 - LOCKING AND POLARIZING SYSTEMS 0 - None. T - Fixed female jackscrews. T2 - Fixed female jackscrews. T6 - Fixed male and female polarized jackscrews. E - Rotating male jackscrews. E2 - Rotating male screw locks. E3 - Rotating male with internal hex for 3/32 hex drives. E6 - Rotating male and female polarized jackscrews. |
| STEP 4 - CONTACT TERMINATION TYPE *10 - Connector ordered without size 8 power shielded or high voltage removable contacts, see contact chart on page 37 for details. 2 - Fixed, solder cup, signal contacts only. 3 - Solder, straight printed board mount with signal contacts only, 0.170 [4.32] tail length. 35 - Solder, straight printed board mount with signal and 0.078 [1.98] Ø power contacts, 0.170 [4.32] tail length. 36 - Solder, straight printed board mount with signal and 0.094 [2.39] Ø power contacts, 0.170 [4.32] tail length. 37 - Solder, straight printed board mount with signal and 0.125 [3.18] Ø power contacts, 0.170 [4.32] tail length. 5 - Solder, right angle (90°) printed board mount with signal contacts only, 0.283 [7.19] signal contact extension. 55 - Solder, right angle (90°) printed board mount with signal and 0.078 [1.98] Ø power contacts, 0.283 [7.19] signal contact extension. 57 - Solder, right angle (90°) printed board mount with signal and 0.125 [3.18] Ø power contacts, 0.283 [7.19] signal contact extension. 65 - Solder, straight printed board mount with signal and shielded contacts, MDS/FDS 4201M footprint, 0.170 [4.32] signal contact tail length. 7 - Solder, metric system right angle (90°) printed board mount with signal contacts only, 0.370 [9.40] signal contact extension. 75 - Solder, metric system right angle (90°) printed board mount with signal and 0.078 [1.98] Ø power contacts, 0.370 [9.40] signal contact extension. 77 - Solder, metric system right angle (90°) printed board mount with signal and 0.125 [3.18] Ø power contacts, 0.370 [9.40] signal contact extension. *2 85 - Solder, right angle (90°) printed board mount with signal and shielded contacts, MRT/FRT 4201M footprint, 0.283 [7.19] signal contact extension. | | | | | | | | | *3 STEP 6 - CABLE ADAPTER (HOOD) AND PUSH-ON FASTENER 0 - None. H - Cable adapter, top opening, brass. AN - Cable adapter, lightweight aluminum, electroless nickel plate, see page 91 for details. N - Push-on fastener for right angle (90°) mounting brackets. |
| NOTES: *1 Available on 2WK2, 3W3, 3WK3, 5W5 and 8W8 variants only. *2 Not available on shell size 6, SCBM 46W4. *3 For additional information on accessories listed in Step 5, 6, and 7, see the Accessories section, pages 86-94. *4 Not available on 2WK2, 3W3, 3WK3, 5W5 and 8W8 variants when choosing code 57, 77 or 85 in Step 4. *5 For use with 2WK2, 3W3, 3WK3, 5W5, 8W8 variants when choosing code 57, 77 or 85 in step 4. *6 2WK2, 3W3, 3WK3, 5W5, AND 8W8 variants will be supplied without an alignment bar. | | | | | | | | | *3 STEP 5 - MOUNTING STYLE 0 - Mounting hole, 0.120 [3.05] Ø. 02 - Mounting hole, 0.154 [3.91] Ø. B3 - Bracket, mounting, right angle (90°) metal with cross bar. C5 - Swaged spacer, cul-de-sac style, 4-40 threads, 0.350 [8.89] length. For use with cable connectors only. *6 C7 - Bracket, mounting, right angle (90°) metal, swaged to connector with cul-de-sac spacer and 4-40 threads with cross bar. F - Float mounts, universal. P - Threaded post, brass, 0.250 [6.35] Length. *5 R - Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 thread fixed female jackscrews. *4 R2 - Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 thread fixed female jackscrews with cross bar. *5 R3 - Bracket, mounting, right angle (90°) metal, swaged to connector with 0.120 [3.05] Ø mounting hole. *5 R4 - Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 threads. *5 R5 - Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 locknut. *4 R6 - Bracket, mounting, right angle (90°) metal, swaged to connector with 0.120 [3.05] Ø mounting hole with cross bar. *4 R7 - Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 threads with cross bar. *4 R8 - Bracket, mounting, right angle (90°) metal, swaged to connector with 4-40 locknut with cross bar. S - Swaged spacer, 4-40 threads, 0.250 [6.35] length. S2 - Swaged spacer, 4-40 threads, 0.125 [3.18] length. S5 - Swaged locknut, 4-40 threads. S6 - Swaged spacer with push-on fastener, 4-40 threads, 0.250 [6.35] length. |

Do you need 2-D drawings or 3-D models?
See page 18 for more information!

For information regarding CRIMP TOOLS & CRIMPING TOOL TECHNIQUES, see page 96.



REMOVABLE CONTACT ORDERING ASSISTANCE CHART



SCBM SERIES CRIMP AND SOLDER CUP TERMINATION CONTACTS

| TYPE | PAGE NUMBER REFERENCE IN CATALOG | CONTACT SIZE | FEMALE PART NUMBER | MALE PART NUMBER | WIRE SIZE AWG [mm ²] |
|--|---|-----------------------|-----------------------|---------------------|-------------------------------------|
| CRIMP | see page 81 for additional information | 8 | FC4008M | MC4008M | 8 [10.0] |
| | | | FC4010M | MC4010M | 10 [5.3] |
| | | | FC4012M | MC4012M | 12 [4.0] |
| | | | FC4016M | MC4016M | 16 [1.5] |
| SOLDER CUP | see page 82 for additional information | 8 | FS4008M | MS4008M | 8 [10.0] |
| | | | FS4012M | MS4012M | 12 [4.0] |
| | | | FS4016M | MS4016M | 16 [1.5] |
| HIGH VOLTAGE <i>Straight Solder Wire</i> | see page 83 for additional information | 8 | FS4820M | MS4820M | 20 [0.5] |
| HIGH VOLTAGE <i>Right Angle (90°) Solder Wire</i> | | | FS4920M | MS4920M | 20 [0.5] |
| SHIELDED | see page 84 for additional information | SOLDER / CRIMP | FC4101M | MC4101M | RG 178 B/U, 196 B/U |
| | | | FC4102M | MC4102M | RG 179 BU/, 316 B/U |
| | | | FC4103M | MC4103M | RG 180 B/U |
| | | | FC4104M | MC4104M | RG 58 B/U |
| | | SOLDER / SOLDER | FS4101M | MS4101M | RG 178 B/U, 196 B/U |
| | | | FS4102M | MS4102M | RG 179 B/U, 316 B/U |
| | | | FS4103M | MS4103M | RG 180 B/U |
| | | | FS4104M | MS4104M | RG 58 B/U |
| | | CRIMP / CRIMP | FCC4101M | MCC4101M | RG 178 B/U, 196 B/U |
| | | | FCC4102M | MCC4102M | RG 179 BU/, 316 B/U |
| | | | FCC4103M | MCC4103M | RG 180 B/U |
| | | | FCC4104M | MCC4104M | RG 58 B/U |

NOTE: For ordering crimp contacts on reels, add "R" to part number, see page 77 for details. Examples: FC4008MR or MC4008MR

SCBM SERIES PRINTED BOARD MOUNT TERMINATION CONTACTS

| TERMINATION TYPE | PAGE NUMBER REFERENCE IN CATALOG | CONTACT SIZE | FEMALE PART NUMBER | MALE PART NUMBER | TERMINATION LENGTH | TERMINATION DIMENSION |
|---|---|-----------------|-----------------------|---------------------|-----------------------|--------------------------|
| STRAIGHT SOLDER PRINTED BOARD MOUNT | see page 82 for additional information | 8 | FDS4314M | MDS4314M | 0.170 [4.32] | 0.078 [1.98] Ø |
| | | | FDS4312M | MDS4312M | | 0.094 [2.39] Ø |
| | | | FDS4310M | MDS4310M | | 0.125 [3.18] Ø |
| | see page 85 for additional information | SHIELDED | FDS4201M | MDS4201M | 0.156 [3.96] | SHIELDED |
| RIGHT ANGLE (90°) PRINTED BOARD MOUNT | see page 83 for additional information | 8 | FRT4314M | MRT4314M | 0.339 [8.61] | 0.078 [1.98] Ø |
| | | | FRT4414M | MRT4414M | 0.451 [11.56] | 0.078 [1.98] Ø |
| | | | FRT4714M | MRT4714M | 0.420 [10.67] | 0.078 [1.98] Ø |
| | | | FRT4814M | MRT4814M | 0.520 [13.21] | 0.078 [1.98] Ø |
| | | | FRT4310M | MRT4310M | 0.810 [20.57] | 0.125 [3.18] Ø |
| | | | FRT4410M | MRT4410M | 0.810 [20.57] | 0.125 [3.18] Ø |
| | see page 85 for additional information | SHIELDED | FRT4201M | MRT4201M | 0.162 [6.10] | SHIELDED |

NOTE: Positronic recommends printed circuit board contacts be supplied factory installed in the connector. Contact technical sales.

For information regarding **REMOVABLE CONTACTS**, see contact illustration drawings and charts on pages 77-85.

For information regarding **CRIMP TOOLS & CRIMPING TOOL TECHNIQUES**, see page 96.

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POSITRONIC INDUSTRIES, INC.

423 N Campbell Avenue • PO Box 8247 • Springfield, MO 65801
Tel (417) 866-2322 • Fax (417) 866-4115 • Toll Free (800) 641-4054
info@connectpositronic.com

POSITRONIC INDUSTRIES, S.A.S.

Zone Industrielle d'Engachies • 46 Route d'Engachies
France 32020 Auch Cedex 9
Telephone 33 5 62 63 44 91 • Fax 33 5 62 63 51 17
contact@connectpositronic.com

POSITRONIC ASIA PTE LTD.

3014A Ubi Road 1 #07-01 • Singapore 408703
Telephone (65) 6842 1419 • Fax (65) 6842 1421
singapore@connectpositronic.com



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