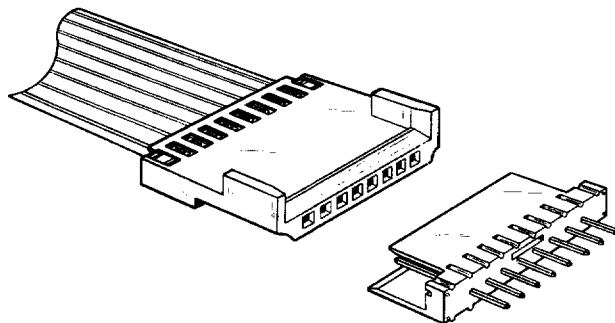


Flexible Circuitry Connectors

2.54 mm (0.100 in.) Centerline

Clincher™ Latching Header and Receptacle



Features

- Single row, 2 through 16 positions.
- Mass terminates without cable stripping.
- Passive latching and end polarization.
- Highly reliable PV™ receptacle.
- Header standoffs for easy PCB cleaning.
- Can be used with conductive ink circuits.
- Drawn wire (not stamped) pins.


Options


- Vertical or right-angle headers.
- Gold or tin-lead plating.

Specifications

- MIL-G-45204
- MIL-P-55110
- ASTM B-159
- QQ-W-343
- QQ-N-290 (receptacle)
- QQ-C-533 (receptacle)
- MIL-P-45209
- MIL-P-81728
- ASTM D-2897

Approvals and Certifications

 File no. E66906

 File no. LR46923

Technical Data

Materials

- Receptacle housing Polypropylene (UL 94 V-0)
- Header housing LCP (UL 94 V-0)
- Color
 - ▶ Receptacle Blue
 - ▶ Header Black
- Receptacle contact Copper alloy
- Header pins Phosphor-bronze

Plating

- Underplate 1.27 μm (50 $\mu\text{in.}$) min nickel
- Finish
 - ▶ Receptacle body 0.76 μm (30 $\mu\text{in.}$) gold or 2.50 μm (100 $\mu\text{in.}$) min tin-lead
 - ▶ Receptacle spring 0.08 μm (3 $\mu\text{in.}$) gold or 0.25 μm (10 $\mu\text{in.}$) min tin-lead
 - ▶ Header pin 0.76 μm (30 $\mu\text{in.}$) gold or 3.81 μm (150 $\mu\text{in.}$) tin-lead

Electrical Performance

- Insulation resistance 5000 M Ω
- Contact resistance (receptacle) 15 m Ω max
- Withstanding voltage
 - ▶ Receptacle >1000 V ac rms
 - ▶ Header 1,000 VAC
- Current rating (receptacle) 2.0 amp

Mechanical Performance

- Insertion force per contact 3 N (300 gf) max
- Normal force per contact 1.5 N (150 gf)

- Contact retention force
 - ▶ Receptacle 10 lbs per inch of cable width
 - ▶ Header (pin to housing) 8.88 N (2 lbf)
- Durability
 - ▶ Receptacle 100 cycles
 - ▶ Header 1,000 cycles (gold plated)

Operating Environment

- Temperature range
 - ▶ Receptacle -65°C to +105°C
 - ▶ Header -55°C to +130°C

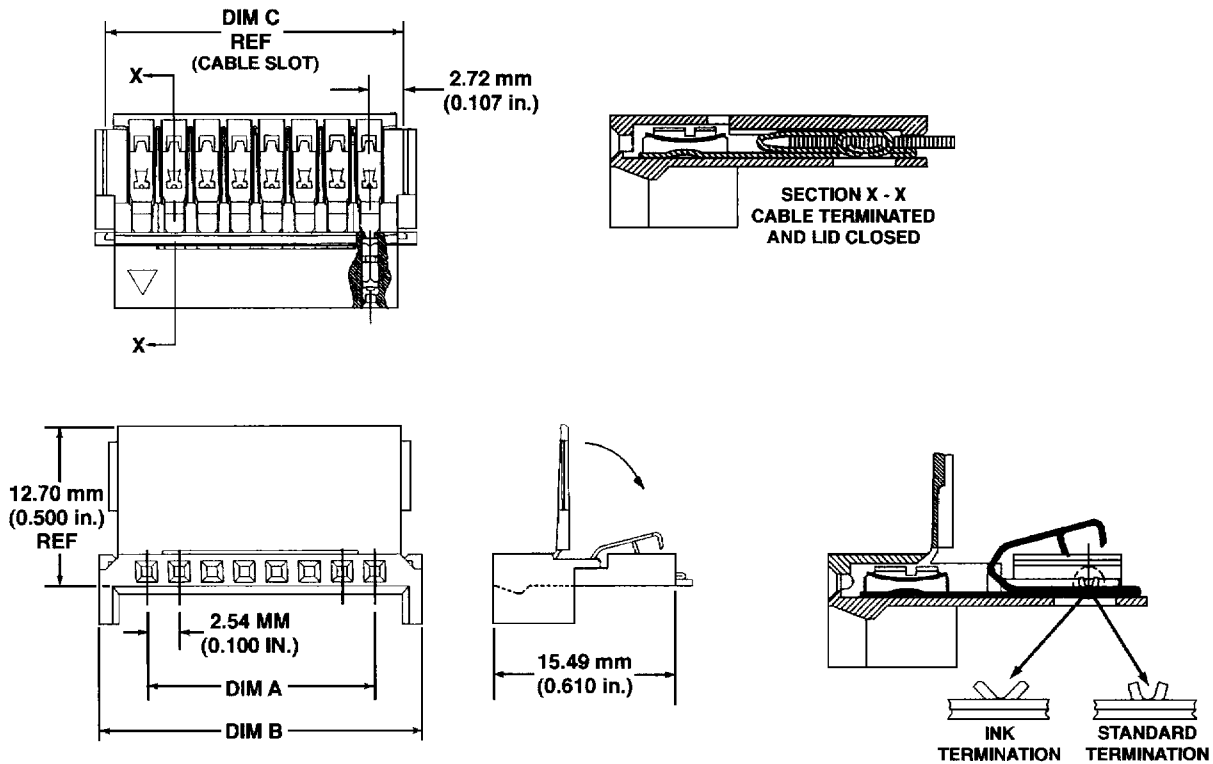
Cable Specification

- Specification IPC Standard, FC-220 B cables type A or B, tolerance class IV
- Thickness 0.33 mm (0.013 in.) max (including insulation)
- Insulation material MYLAR® Polyester or KAPTON® Polyimide
- Conductor thickness 0.076 \pm 0.013 mm (0.003 \pm 0.0005 in.) 305 gr/m²
- Conductor width 1.57 \pm 0.07 mm (0.062 \pm 0.0003 in.)
- Further cable specifications See technical drawings TA 264, TA 371
- Application data See technical drawing TA 372

Packaging

- Receptacles Trays in boxes
- Headers Bags

Description Clincher™ Latching Receptacle



20

Ordering Data

Base number. _____ Specifies number of positions.

□ □ □ □ □ - X Y Y

_____ Specifies Plating and Termination Type.

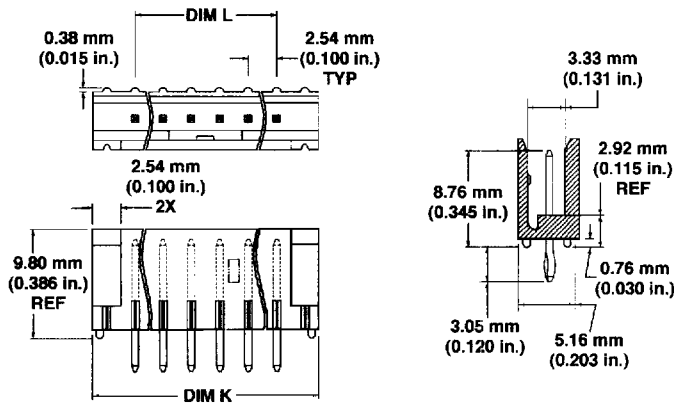
Number of Positions	Base Number 67516		Dimensions					
	Dash Numbers		A		B		C	
	Gold	Tin-lead	mm	in.	mm	in.	mm	in.
1 x 2	-202	-002	2.54	0.100	9.91	0.390	8.00	0.315
1 x 3	-203	-003	5.08	0.200	12.45	0.490	10.54	0.415
1 x 4	-204	-004	7.62	0.300	14.99	0.590	13.08	0.515
1 x 5	-205	-005	10.16	0.400	17.53	0.690	15.62	0.615
1 x 6	-206	-006	12.70	0.500	20.07	0.790	18.16	0.715
1 x 7	-207	-007	15.24	0.600	22.61	0.890	20.70	0.815
1 x 8	-208	-008	17.78	0.700	25.15	0.990	23.24	0.915
1 x 9	-209	-009	20.32	0.800	27.69	1.090	25.78	1.015
1 x 10	-210	-010	22.86	0.900	30.23	1.190	28.32	1.115
1 x 11	-211	-011	25.40	1.000	32.77	1.290	30.86	1.215
1 x 12	-212	-012	27.94	1.100	35.31	1.390	33.40	1.315
1 x 13	-213	-013	30.48	1.200	37.85	1.490	35.94	1.415
1 x 14	-214	-014	33.02	1.300	40.39	1.590	38.48	1.515
1 x 15	-215	-015	35.56	1.400	42.93	1.690	41.02	1.615
1 x 16	-216	-016	38.10	1.500	45.47	1.790	43.56	1.715

To order parts for conductive ink circuits or circuits less than 0.15 mm (0.006 in.) total thickness, dash number is changed from "0" or "2" to "5" or "7".

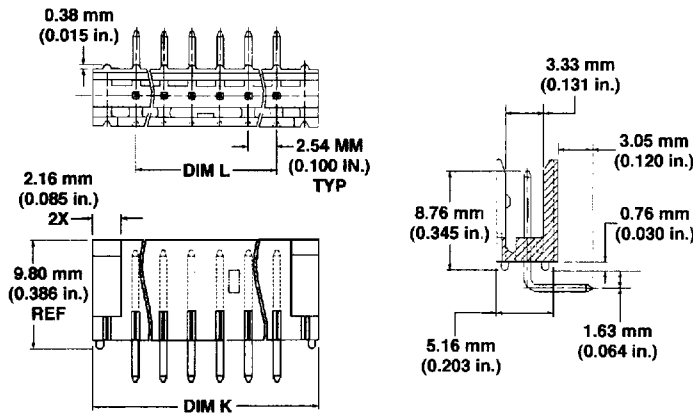
Example: 67516-002 would be changed to 67516-502, 67516-202 would be changed to 67516-702.

Ordering data shown is for our standard product offering. For non-standard or custom products, contact your authorized Berg Electronics representative.

Description Clincher™ Latching Header



VERTICAL



RIGHT ANGLE

Ordering Data

Base number specifies pin length and style.

□ □ □ □ □ - X Y Y

These digits specify total number of positions available for each number.

This digit specifies plating.

0.76 μm (30 μin.) gold over 1.27 μm (50 μin.) nickel

-1YY

3.81 μm (150 μin.) tin-lead

-4YY

Number of Positions	1-Row Header		Dimensions			
	Straight	Right-Angle	K		L	
	Base Number 95735	Base Number 95736	mm	in.	mm	in.
2	-X02	-X02	10.16	0.400	2.54	0.100
3	-X03	-X03	12.70	0.500	5.08	0.200
4	-X04	-X04	15.24	0.600	7.62	0.300
5	-X05	-X05	17.78	0.700	10.16	0.400
6	-X06	-X06	20.32	0.800	12.70	0.500
7	-X07	-X07	22.86	0.900	15.24	0.600
8	-X08	-X08	25.40	1.000	17.78	0.700
9	-X09	-X09	27.94	1.100	20.32	0.800
10	-X10	-X10	30.48	1.200	22.86	0.900
11	-X11	-X11	33.02	1.300	25.40	1.000
12	-X12	-X12	35.56	1.400	27.94	1.100
13	-X13	-X13	38.10	1.500	30.48	1.200
14	-X14	-X14	40.64	1.600	33.02	1.300
15	-X15	-X15	43.18	1.700	35.56	1.400
16	-X16	-X16	45.72	1.800	38.10	1.500

Ordering data shown is for our standard product offering. For non-standard or custom products, contact your authorized Berg Electronics representative.