

INNOVATION

SOLUTIONS

SUPPORT

Spliced O-Rings

Spliced O-rings are a viable solution when standard O-Rings cannot be used. They are made from extruded cord and then vulcanized to form the O-Ring size (ID) required. Through our suppliers and our in-house proprietary service, Bay Seal has developed a system that provides high quality, extremely dependable parts time and time again, using a multitude of materials and profiles (a few are shown below). Having served the Bay Area and Northern California since 1957, Bay Seal Company has the experience and expertise to provide highly engineered solutions to help you develop the most cost effective seal design for your project .

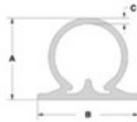
Profiles



Hollow O



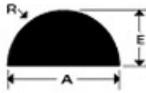
Solid O



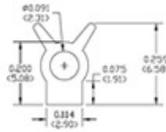
Omega



Hollow D



Solid D



Custom

Materials

Viton® (FKM): Excellent compression set resistance Used in the semiconductor, chemical processing industries, and many others.

Buna-N/Nitrile (NBR): Nitrile is the most widely used elastomer in the seal industry today.

Silicone (Q, MQ, VMQ, PVMQ): Silicone compounds are very clean and are used in many food and medical applications.

Ethylene Propylene Rubber (EPDM, EPR): has great resistance to heat, water and steam, alkali, mild acidic and oxygenated solvents, ozone, and sunlight.

Cross Sections and Tolerances for FKM cord

| BLACK | | BROWN | |
|-------|-----------|-------|-----------|
| CSD | Tolerance | CSD | Tolerance |
| .070 | +/- .004 | .070 | +/- .007 |
| .103 | +/- .005 | .103 | +/- .008 |
| .139 | +/- .006 | .139 | +/- .009 |
| .210 | +/- .008 | .210 | +/- .010 |
| .275 | +/- .010 | .275 | +/- .013 |
| .312 | +/- .012 | .312 | +/- .014 |
| .375 | +/- .013 | .375 | +/- .014 |
| .500 | +/- .018 | .500 | +/- .026 |

Standard Cut/Length Tolerances (in inches) for FKM cord

| Cut Tolerance | | Length Tolerance | ID Tolerance |
|---------------|-----|---------------------|-------------------|
| 0 - 10 | +/- | 0.13 | 0.04 |
| 10 - 16 | | 0.16 | 0.05 |
| 16 - 25 | | 0.20 | 0.06 |
| 25 - 40 | | 0.25 | 0.08 |
| 40 - 63 | | 0.32 | 0.10 |
| 63 - 100 | | 0.40 | 0.13 |
| 101 - 150 | | 0.50 | 0.16 |
| 151 - 200 | | 0.80 | 0.20 |
| 201 - 250 | | 1.00 | 0.32 |
| 251 - 300 | | 1.20 | .038 |
| 301 + | | (.004 X Cut Length) | (0.0012732 X Cut) |

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