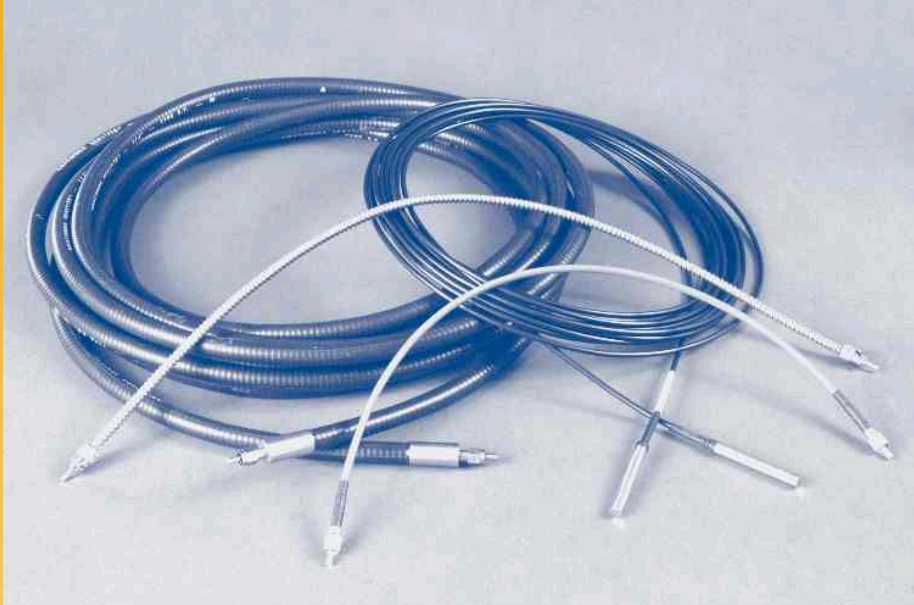


## Fiberoptic Patchcords and Large Core Cable Assemblies



### DESCRIPTION

Patchcords and cable assemblies are differentiated from bundles and arrays by the fact that these assemblies incorporate a single fiberoptic strand vs having many fiberoptic strands. RoMack has decades of experience manufacturing the highest quality single fiber assemblies.

RoMack fabricates patchcords and cable assemblies using standard or custom fiber types. These include silica core/silica clad, silica core/plastic clad, all plastic, borosilicate glass, or, other more exotic constructions. These fibers exhibit Numerical Apertures (NA) of 0.12 to 0.66. RoMack offers

one of the widest ranges of materials possible in order to tailor products to both technical and economic requirements.

RoMack can also provide any standard fiberoptic connector or end fitting, but also regularly fabricates custom end fittings to suit your custom or OEM applications.

Harsh environments and space constraints have also been one of RoMack's specialties over the years, and we regularly succeed where others have failed. So, don't hesitate to contact RoMack with even your most difficult applications.

### APPLICATIONS

- Optical energy transmission of all kinds
- Emission, Fluorescence and Absorption Spectroscopy
- Laser beam transmission and delivery
- Illumination
- Sensors

### FEATURES

- Medical.
- All connector styles or end fittings can be accommodated.
- All fiber sizes up to 1mm in diameter are standard (larger fibers can also be incorporated).
- Transmission from 180nm through 2100nm and longer.
- High power and custom end fittings available.
- Harsh environments:
  - ruggedized packaging
  - high temperature
  - vacuum
  - radiation
  - UV solarization
  - vacuum feedthrough

# Fiberoptic Patchcords and Large Core Cable Assemblies

## ORDERING/SPECIFYING INFORMATION

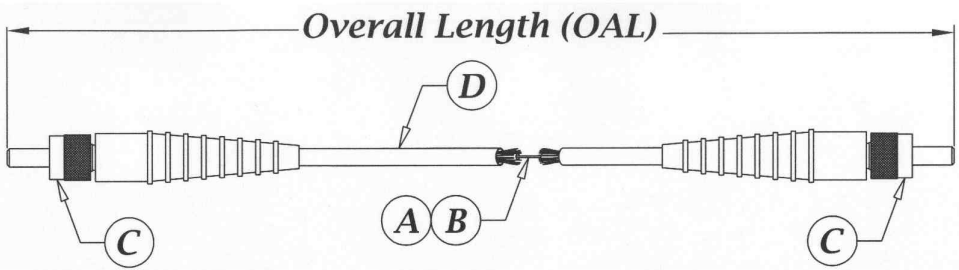
Fiberoptic patchcords need to be specified with regard to their lengths, fiber type, jacketing and end terminations. Standard cables are constructed to operate in environments of up to 100°C but can easily be fabricated to operate up to 300°C or higher. Crush proof or chemically resistant jacketing can also be provided.

The connectors or end fittings possible are virtually

unlimited. We have called out some standard fittings below but we are able to provide virtually any standard connector or end fitting that can be made. **Please call us to discuss your needs.** If the cable you desire cannot be easily specified by the system below please give RoMack a call and one of our application specialists will help you.

## NOTES

- Fiber transmission curves and other performance details can be provided as required.
- For patchcords or cable assemblies not accommodated by the specifying system, please call RoMack.
- To discuss high temperature, vacuum, chemical or other environmental concerns please call RoMack.



<p><b>(A) Fiber Type</b></p> <ol style="list-style-type: none"> <li>1) Silica/Silica (UV/VIS)</li> <li>2) Silica/Silica Low Solarization (UV)</li> <li>3) Silica/Silica (VIS/NIR)</li> <li>4) Polymer Clad Silica(UV/VIS High NA)</li> <li>5) Polymer Clad Silica(VIS/NIR High NA)</li> <li>6) Plastic (PMMA)</li> <li>7) Other _____</li> </ol>	<p><b>(B) Fiber Size</b></p> <table border="0" style="width: 100%;"> <tr> <td>1) 50µm</td> <td>6) 500µm</td> </tr> <tr> <td>2) 100µm</td> <td>7) 600µm</td> </tr> <tr> <td>3) 200µm</td> <td>8) 800µm</td> </tr> <tr> <td>4) 300µm</td> <td>9) 1,000µm</td> </tr> <tr> <td>5) 400µm</td> <td>10) Other _____</td> </tr> </table>	1) 50µm	6) 500µm	2) 100µm	7) 600µm	3) 200µm	8) 800µm	4) 300µm	9) 1,000µm	5) 400µm	10) Other _____	<p><b>(C) Connector</b></p> <table border="0" style="width: 100%;"> <tr> <td>1) SMA-905</td> <td>6) ST</td> </tr> <tr> <td>2) SMA-906</td> <td>7) Biconic</td> </tr> <tr> <td>3) HI-Power SMA</td> <td>8) Ø0.250" Ferrule</td> </tr> <tr> <td>4) O-ring SMA</td> <td>9) Ø10mm Ferrule</td> </tr> <tr> <td>5) FC</td> <td>10) Other _____</td> </tr> </table>	1) SMA-905	6) ST	2) SMA-906	7) Biconic	3) HI-Power SMA	8) Ø0.250" Ferrule	4) O-ring SMA	9) Ø10mm Ferrule	5) FC	10) Other _____
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<p><b>(D) Jacketing</b></p> <ol style="list-style-type: none"> <li>1) PVC Tubing</li> <li>2) PVC/Kevlar Furcation Tubing</li> <li>3) PVC Monocoil</li> <li>4) Stainless Steel BX</li> <li>5) Braided SSTL/PTFE Hose</li> <li>6) Teflon Tubing</li> <li>7) Other _____</li> </ol>																						

**Specifying Method**

P - A B C/C D X X X X (OAL-cm)

Example : P-131/12 0125

P - 1 3 1/1 2 0 1 2 5 (cm)

UV/Vis, 200µm core, SMA905, SMA905 PVC/Kevlar Furcation Tubing, 125 CM Long.

Please contact RoMack regarding high temperature, chemical, vacuum, or any other environmental concerns.

Temperature Requirements: \_\_\_\_\_

Other Requirements: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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