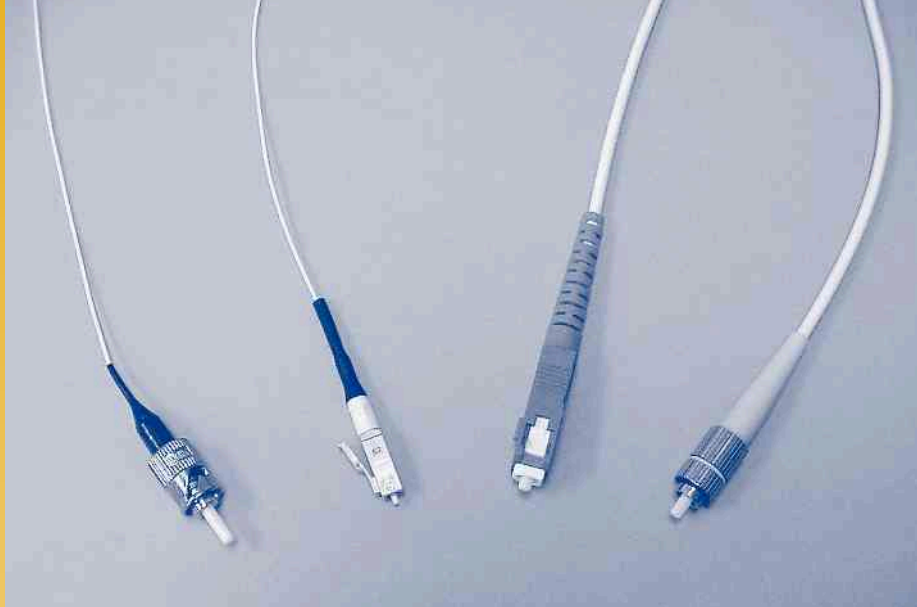


Single Mode Cables



DESCRIPTION

Single mode patchcords and cable assemblies are long or short lengths of single mode fiber with connectors installed on each end. These tend to be simple assemblies but they are critically important wherever they are used. They simply must be made correctly and they simply must be tested. RoMack has decades of experience manufacturing the highest quality single fiber assemblies available in the world.

RoMack fabricates its patchcord and cable assemblies from the highest quality traceable materials offering the widest range of choices possible in order to tailor products to both technical and economic requirements.

RoMack will provide any standard fiberoptic connector or end fitting but can also fabricate custom end fittings or finishes to suit your custom or OEM applications. For example, flat polishing bare fiber ends, angle polishing of connectors, or bare fibers, and anti-reflective coatings are common for RoMack.

Don't be fooled by those that say "it's just a patchcord." A patchcord that fails because the connectors were incorrectly installed, or a patchcord that has low performance characteristics, or a patchcord with jacketing not suited to the environment, or a patchcord where the materials are not traceable is a patchcord waiting to be a problem.

APPLICATIONS

- Premises distribution systems
- LANs
- Data routing
- Interconnects of all kinds
- Medical
- Sensors

FEATURES

- High return loss.
- Low insertion loss.
- All connector styles.
- All common single mode wavelengths.
- Various cabling and jacketing options.
- Quick turn around.
- Each cable individually tested.

Single Mode Cables

ORDERING/SPECIFYING INFORMATION

Single mode patchcords and cables need to be specified with regard to their lengths, single mode wavelength and end terminations. If they are going to be applied in any kind of harsh environment or specialty application additional information may be required.

The specifying system is an effort to accommodate the most common assemblies, but

the possible configurations that fall under this product area are many. We have called out some standard fiber, connectors and jacket types below, but we can provide so much more.

If you cannot specify the cable you desire or want something not listed, please give RoMack a call and one of our application specialists will help you.

NOTES

Attenuation:

Varies by manufacturer and wavelength but all fibers are industry wide highest quality.

Cutoff Wavelength Note:

When operating below the cutoff wavelength single mode operation is not guaranteed.

Return Loss:

Typically -50db (-40db min).

Connector to Connector Loss:

Dependent upon the connector system.

For assemblies not accommodated by the specifying system or for special applications, please call RoMack.

Overall Length (OAL)

A Wavelength

- 1) 460nm
- 2) 780nm
- 3) 850nm
- 4) 980nm
- 5) 1060nm
- 6) 1310nm
- 7) 1550nm
- 8) Other _____

B Fiber Mode Field Diameter

- 1) 3.5 micron
- 2) 5 micron
- 3) 4.2 micron
- 4) 6.2 micron
- 5) 8.3 micron
- 6) 9.3 micron
- 7) Other _____

C Connector

1) SMA-905	6) ST
2) SMA-906	7) SC
3) HI-Power SMA	8) Ø0.250" Ferrule
4) O-ring SMA	9) Ø10mm Ferrule
5) FC	10) Other _____

D Jacketing

- 1) PVC Tubing
- 2) PVC/Kevlar Furcation Tubing
- 3) PVC Monocoil
- 4) Stainless Steel BX
- 5) Braided SSTL/PTFE Hose
- 6) Teflon Tubing
- 7) Other _____

Temperature Requirements: _____

Other Requirements: _____

Specifying Method

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

Example : SM-225/62 0125

SM - 2 2 5/6 2 0 1 2 5 (cm)

780nm, 5 micron, FC connector, SC connector, PVC/Kevlar Furcation Tubing, 125 CM Long.

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

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