

HeptoPort® KSC Multi-Channel Connector

HeptoPort® KSC 7-Fiber Pigtail, Patchcord and Cable Fan-out

For both multimode and single-mode applications

Valdor's high density HeptoPort® KSC 7-Fiber Pigtail, Patchcord and Cable Fan-out are the newest HeptoPort® products being introduced to the industry based on the Company's patented and proven IMPACT MOUNT® (IMT) Technology. The multi-channel KSC connector for these assemblies utilizes the breakthrough two dimensional (2D) self-alignment concept; a technology that enables an optical connector to be aligned with a precision alignment key so that when 2 multi-channel connectors are mated, all 7 fibers will be automatically aligned. This KSC connector is compatible with any standard SC bulkhead adapters. The new KSC products offer the highest density per surface area to interconnect optical fibers in the field at significant cost savings to the end users.

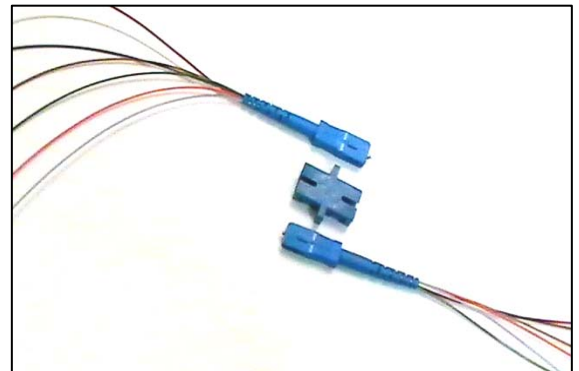
HeptoPort® KSC products can be spliced onto existing fibers without changing the existing infrastructures. This opens up a wide range of applications in central offices, hubs, aerospace, offshore oil/mining and industries where high-density feature is desirable without having to change the existing SC footprint.

Standard Panel Application

Most panels available in the market accommodate up to 288 single bulkhead adapters per panel. Each bulkhead adapter can handle only one fiber. The HeptoPort® 7-fiber Pigtails and Patchcords can be utilized to increase panel capacity up to 7x per bulkhead adapter. The multi-fiber connection capability of the KSC significantly reduces the clustering in the space restricted racks and enclosures.

For an incoming cable with 144 fibers, the fibers are first spliced onto the KSC HeptoPort® 7-Fiber Pigtails, utilizing a total of 21 pigtails for the 144 fibers. Only 21 adapters are required for each cable connection, freeing up the extra bulkhead adapters in the panel for other cables. For a panel with existing 144 SC bulkhead adapters, seven cables instead of one cable can be installed resulting in significant savings.

Panel to panel connection is done by installing a KSC HeptoPort® Patchcord-AB.



HeptoPort® KSC 7-Fiber Pigtails

HeptoPort® Technology Concept

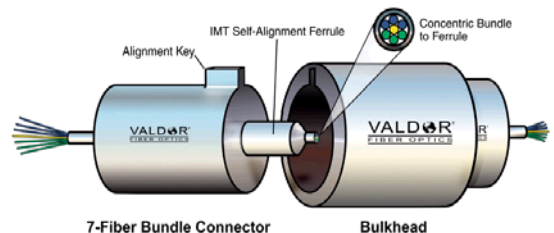
HeptoPort® applies IMT Technology to multiple fibers scenarios, with breakthrough 2D self-alignment feature, and the lowest cost in the industry.

It is a circular pattern of 7 fibers within one ferrule.

The mounting process is accomplished in 3 steps:

- 2-D fiber core alignment using IMT Technology
- Fiber to fiber orientation
- Multi-fiber alignment using a precision key

7-Fiber Multimode Bundle Connector
Featuring Heptoport™ 2D Self Alignment



7-Fiber connection at the ferrule tip

Features and Benefits

- For fusion splice application
- Increase panel capacity up to 7x
- SC adapters reduced up to 7x
- No change in infrastructure
- Ideal for limited space
- Cable spool application
- Cable fan-out application

Applications

- Data / Telecom
- Central office and hub
- Airport and intersection cameras
- Aerospace / Military
- Oil exploration
- Mining
- Industrial

HeptoPort[®] KSC Multi-Channel Connector for 7-Fiber Pigtail, Patchcord and Cable Fan-out

Performance Specifications

KSC Multi-Channel Connector For pigtail, patchcord & cable fan-out	Multimode	Single-mode
Bare Fiber O.D. (Nominal)	125 micron	125 micron
Buffer O.D. (Nominal)	250 micron	250 micron
Insertion Loss (dB) per leg (7 fibers)	0.3 dB typical	0.5 dB typical
Back Reflection	N/A	- 42 dB
Temperature Cycling: - 40C to 80 C	0.3 dB max. change	0.3 dB max. change
Connector Material	Metal	Metal
Mounting Time (splicing 7 fiber pigtails)	< 15min	<15min

Ordering Information

<u>P/N</u>	<u>Description</u>
193-02-30010150	KSC/PIG – A Pigtail for splicing
193-02-40010150	KSC/PIG – B Pigtail for splicing
193-01-40410150	KSC/KSC – AB Patchcord
193-02-30610150	KSC/7SC – A Cable Fan-out 1.5m
193-02-40610150	KSC/7SC – B Cable Fan-out 1.5m

Technical Information

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