

Part Number: PN-VF45SMY

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Description: Ø2.0mm VF45 - VF45 SM DX Zipcord Patchcord

● Products Overview:

The Volition VF-45 Socket and Patch Cords from 3M are the latest duplex, fiber optic interconnects for affordable, high bandwidth, fiber-to-the-desk networks. The VF-45 plug and socket work like an 8-pin modular jack, bringing the simplicity of the RJ-45 jack to optical fiber applications. VF-45 sockets can be field terminated in closet patch panels and in work area outlets for premises backbone and horizontal cabling applications. Field termination on duplex multimode and single-mode fiber using the Volition VF-45 Termination Kit takes less than two minutes, two fibers at a time! The mating VF-45 plugs, factory terminated onto patch cords, enables interconnection from socket-to-socket or from socket-to-transceiver devices. VF-45 patch cords are provided in a variety of lengths and are also available in hybrid ST* or SC configurations. All VF-45 patch cords are constructed with the innovative 3M “GGP” high-strength coated optical fiber, providing for durability and tight bend radius in desktop applications.

● Application & Features:

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- Plug-to-socket design (no adapter needed);
- High-density duplex interconnect;
- V-groove alignment with injection-molded parts;
- RJ-45 style latch;
- Socket, snap together assembly;
- Eliminates expensive ferrules, sleeves or precision components;
- Easy to install, lower labor costs;
- Dependable in under-desk applications.

● Feature:

- Low Insertion Loss;
- Good Repeatability;
- Good Changeability;
- Good Temperature Stabilization.

● Technical Information:

Material	Specification	
	Single-mode	Multimode
Connector	Engineering Thermoplastic UL-94 VO	
Boot	Thermoplastic Elastomer	
Fiber	9/125µm	62.5µm or 50µm

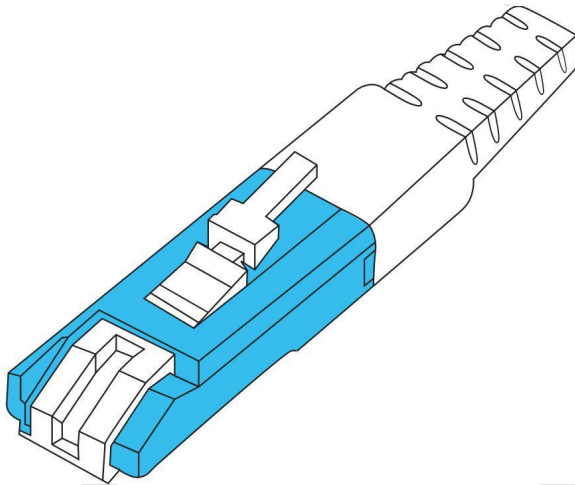
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● Specifications for Volition VF-45 Plug and Sockets:

Test	Test Conditions/Requirements	
	Single-mode	Multimode
Attenuation	$\leq 0.75\text{dB}$	$\leq 0.75\text{dB}$
Reflection	$\leq 26\text{dB}$	$\leq 26\text{dB}$
Mating Durability	500 Cycles, $\leq 0.75\text{dB}$ Max	
Strength of coupling	33N, $\leq 0.75\text{dB}$	
Plug Cable Retention	Tensile load 66N, side pull 19.4N, $\leq 0.75\text{dB}$	Tensile load 66N, side pull 6.6N, $\leq 0.75\text{dB}$
Plug Flex	100 cycles, ± 90 degree, 0.5kg, $\leq 0.75\text{dB}$	
Plug Twist	10 cycles, ± 2.5 Revolution, 15N, $\leq 0.75\text{dB}$	
Cold	-10°C (14°F) for 96 hours, $\leq 0.3\text{dB}$ increase	
Heat	60°C (140°F) for 14 days, $\leq 0.3\text{dB}$ increase	
Humidity	40°C , 95% relative humidity for 96 hours, $\leq 0.4\text{dB}$	
Impact	8 drops @ 1.8m, $\leq 0.75\text{dB}$	
Thermal Cycling	-10°C 60°C (14°F to 140°F), 5 cycles, $\leq 0.3\text{dB}$ increase	
Vibration	10 to 55 Hz, 30 min, each axis, $\leq 0.3\text{dB}$ increase	

● Technical Polarity:



2.0mm Singlemode VF45 Cable



2.0mm Multimode VF45 Cable

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