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Cabling
Solutions

3M

3M™ Volition™ VF-45™ Sockets

The VF-45 socket is a small form factor (SFF) connector, one half the size of standard duplex fiber optic interconnect providing affordable, high bandwidth networks. The VF-45 plug and socket intermate like an 8-pin modular jack, bringing the simplicity of the RJ45 jack to optical fiber applications.

The keyed VF-45 socket is available for networks that require separate, secure, controlled access. Each keyed VF-45 socket requires a color coded bezel and intermates with color coded keyed VF-45 patch cords.

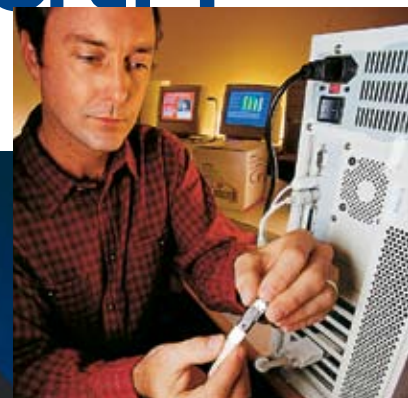| Features |
| --- |
| Meets TIA-568B specifications for small form factor interconnects |
| Fast installation using a simple termination process with VF-45 Quick Install Kit |
| No expensive ceramic parts |
| Footprint dimensions of an RJ45 copper connector with keystone latch |
| High density of duplex connections |
| Integral dust protection |

Ordering Information

Product Number	Description	Pkg. (lbs.)	Min. Order	UPC 051115-
VOL-0001	VF-45 socket, MM, with 250 µm fiber holder	96 each (2.08)	96 each	58290*
VOL-0002	VF-45 socket, SM, with 250 µm fiber holder	96 each (2.08)	96 each	75927*
VOL-0003	Keyed VF-45 socket MM, no bezel	96 each (2.08)	96 each	15693
VOL-0720-BL	Bezel for keyed VF-45 socket, blue	12 each (1.00)	12 each	18261
VOL-0720-OR	Bezel for keyed VF-45 socket, orange	12 each (1.00)	12 each	18262
VOL-0720-GR	Bezel for keyed VF-45 socket, green	12 each (1.00)	12 each	18263
VOL-0720-BR	Bezel for keyed VF-45 socket, brown	12 each (1.00)	12 each	18264
VOL-0720-SL	Bezel for keyed VF-45 socket, slate	12 each (1.00)	12 each	18265
VOL-0720-RD	Bezel for keyed VF-45 socket, red	12 each (1.00)	12 each	18266
VOL-0720-BK	Bezel for keyed VF-45 socket, black	12 each (1.00)	12 each	18267
VOL-0720-YL	Bezel for keyed VF-45 socket, yellow	12 each (1.00)	12 each	18268
VOL-0720-VI	Bezel for keyed VF-45 socket, violet	12 each (1.00)	12 each	18269
VOL-0720-RS	Bezel for keyed VF-45 socket, rose	12 each (1.00)	12 each	18270
VOL-0720-AQ	Bezel for keyed VF-45 socket, aqua	12 each (1.00)	12 each	18271
VOL-0011	VF-45 socket fiber holders, replacement 250 µm	96 each (2.21)	96 each	58627*
VOL-0012	VF-45 socket fiber holders for 900 µm buffer	96 each (2.21)	96 each	18717

*UPC prefix 051138-
NOTE: MM – Multimode; SM – Singlemode

Providing affordable high bandwidth networks

3M™ Volition™ Keystone RJ45 Jacks Cat. 5e and Cat. 6

The Cat. 5e and Cat. 6 RJ45 keystone jack design provides consistent and repeatable results. The jack offers tool-less installation and can be reused many times. The integral shutter protects the contacts from dirt and dust and provides reliability.

Features

| Tool-less installation |
| Keystone dimensions |
| Integral dust protection |
| Reusable termination |

Product Number	Description	Package	Min. Order	UPC 051115-
VOL-OCK5E-U-AL	RJ45 K5E Jack Cat. 5e UTP - Almond - bag of 8	12 bags	12 bags	22623
VOL-OCK5E-U-BK	RJ45 K5E Jack Cat. 5e UTP - Black - bag of 8	12 bags	12 bags	22621
VOL-OCK5E-U-BL	RJ45 K5E Jack Cat. 5e UTP - Blue - bag of 8	12 bags	12 bags	22617
VOL-OCK5E-U-G	RJ45 K5E Jack Cat. 5e UTP - Green - bag of 8	12 bags	12 bags	22618
VOL-OCK5E-U-O	RJ45 K5E Jack Cat. 5e UTP - Orange - bag of 8	12 bags	12 bags	22622
VOL-OCK5E-U-R	RJ45 K5E Jack Cat. 5e UTP - Red - bag of 8	12 bags	12 bags	22619
VOL-OCK5E-U-W	RJ45 K5E Jack Cat. 5e UTP - White - bag of 8	12 bags	12 bags	22613
VOL-OCK5E-U-Y	RJ45 K5E Jack Cat. 5e UTP - Yellow - bag of 8	12 bags	12 bags	22620
VOL-OCK5E-F	RJ45 K5E Jack Cat. 5e FTP - White - bag of 8	12 bags	12 bags	22614
VOL-OCK5E-S	RJ45 K5E Jack Cat. 5e STP - White Metallic Shield - bag of 8	12 bags	12 bags	22615
VOL-OCK6-U-AL	RJ45 K6 Jack Cat. 6 UTP - Almond - bag of 8	12 bags	12 bags	22630
VOL-OCK6-U-BK	RJ45 K6 Jack Cat. 6 UTP - Black - bag of 8	12 bags	12 bags	22628
VOL-OCK6-U-BL	RJ45 K6 Jack Cat. 6 UTP - Blue - bag of 8	12 bags	12 bags	22624
VOL-OCK6-U-G	RJ45 K6 Jack Cat. 6 UTP - Green - bag of 8	12 bags	12 bags	19417
VOL-OCK6-U-O	RJ45 K6 Jack Cat. 6 UTP - Orange - bag of 8	12 bags	12 bags	22629
VOL-OCK6-U-R	RJ45 K6 Jack Cat. 6 UTP - Red - bag of 8	12 bags	12 bags	22626
VOL-OCK6-U-W	RJ45 K6 Jack Cat. 6 UTP - White - bag of 8	12 bags	12 bags	22616
VOL-OCK6-U-Y	RJ45 K6 Jack Cat. 6 UTP - Yellow - bag of 8	12 bags	12 bags	22627
VOL-OCK6-F	RJ45 K6 Jack Cat. 6 FTP - White - bag of 8	12 bags	12 bags	22607
VOL-OCK6-S	RJ45 K6 Jack Cat. 6 STP - White Metallic Shield - bag of 8	12 bags	12 bags	22618

3M™ Volition™ Convex Face Plates

The Volition convex keystone face plate allows copper RJ45 jacks to be used with the Volition wall outlet adapters and can also be used for surface mount applications. This faceplate is available in office white in both 2- and 4-port configurations and comes with easy to use labels, label windows and port icons for port identification.

Ordering Information

Volition Convex Face Plates

Product Number	Description	Pkg. (lbs.)	Min. order	UPC 051115-
VOL-0712	RJ45 face plate, convex 2 port, office white for keystone jack	50 each (4.41)	50 each	13535
VOL-0714	RJ45 face plate, convex 4 port, office white for keystone jack	50 each (4.50)	50 each	13537
Volition Convex Face Plate Accessories				
VOL-0790BL	Reversible icons (voice/data) for keystone face plates, blue	10/pkg.	10 pkgs.	14869
VOL-0790GR	Reversible icons (voice/data) for keystone face plates, green	10/pkg.	10 pkgs.	14870
VOL-0790RD	Reversible icons (voice/data) for keystone face plates, red	10/pkg.	10 pkgs.	14871
VOL-0790	Reversible icons (voice/data) for keystone face plates, office white	10/pkg.	10 pkgs.	14893

3M™ Volition™ Fiber Wall Outlets

Volition wall outlet adapters allow fiber-optic connectors to be installed at the workstation outlet along with standard copper jacks or inserts. Volition furniture outlets allow VF-45 fiber sockets to be installed in office partitions.

Ordering Information

Volition Fiber Wall Outlets

Product Number	Description	Pkg. (lbs.)	Min. order	UPC 051138-
VOL-0250A	Wall outlet adapter with 2-socket capability, single gang, office white	48 each (0.80)	48 each	58294
VOL-0250B	Wall outlet adapter with 2-socket capability, single gang, bright white	48 each (0.80)	48 each	58295
VOL-0254	4" x 4", double gang wall box, with 4-port face plate, office white	12 each (1.50)	12 each	13759*
VOL-0254B	4" x 4", double gang wall box, with 4-port face plate, bright white	12 each (1.50)	12 each	13760*
VOL-0256-GY	6 port, single gang face plate, bezel system, gray	12 each	12 each	16129
VOL-0256-WH	6 port, single gang face plate, bezel system, white	12 each	12 each	16130
VOL-0300	Blank port insert, office white	50 each (0.28)	50 each	89326
VOL-0300B	Blank port insert, bright white	50 each (0.28)	50 each	89358
VOL-0300BK	Blank port insert, black	50 each (0.28)	50 each	89360
VOL-0300G	Blank port insert, gray	50 each (0.28)	50 each	89359
VOL-0350W	2-port, furniture outlet, office white	48 each (0.90)	48 each	58686
VOL-0350G	2-port, furniture outlet, gray	48 each (0.90)	48 each	58687
VOL-0350B	2-port, furniture outlet, black	48 each (0.90)	48 each	58688

*UPC prefix 051115-

3M™ VF-45™ Patch Cords

VF-45 patch cords use the superior reliability and ruggedness of 3M glass/glass/polymer (GGP) fiber optic cable which is ideal for applications requiring tight bends, durability and dependability.

The glass cladding around the core is reduced in size and surrounded with a permanent and protective polymer coating, resulting in a standard 125 µm fiber diameter. This provides a quality, highly durable connection.

3M™ VF-45™ PATCH CORDS

Features	Benefits
Tight bend radius fiber (3/8 inch or 9.5 mm)	Increased durability and reliability in small spaces
Cable flexibility	Easier to route and manage
Unique fiber structure and cable	Withstands abuse
Meets requirement of TIA/EIA 568 B.3	Long term reliability and 3M standards for multimode fibers at 850 nm and 1300 nm
3M-developed precision factory connector termination	Experienced assemblers and processes enhance both performance and reliability
100% optically tested	Assures low reflectance and low light loss

Specifications

Connector Materials	VF-45 Connector	
Alignment	Ferrule-less V-groove	
Housing body	Engineered resin	
Boot	Thermoplastic elastomer	
Flame retardancy	UL-94 V-0	
VF-45 Connection	**Singlemode**	**Multimode**
Insertion loss	0.20 dB mean 0.14 dB sigma	0.28 dB mean 0.06 dB sigma
Reflection	-56.4 dB mean 3.4 dB sigma	-27.2 dB mean 1.77 dB sigma
Operating temperature	-10° C to 60°C	-10° C to 60° C
Mating durability (500 matings)	< 0.75 dB max	< 0.75 dB max

Cable Specification	Singlemode 1310/1550 NM	50 µM 850/1300 NM	62.5 µM 850 NM
Attenuation	0.5/0.4 dB/km	3.5/1.5 dB/km	3.5/1.5 dB/km

Jacket Specification

Patch cord cable meets both riser rated (OFNR) and low smoke zero halogen (LSZH) requirements.
Standard duplex cable 2.4 mm zipcord.

Patch Cords and Media Converters Ordering Information

3M™ VF-45™ PATCH CORDS

Product Number	Description	Pkg. (Lbs.)	Min. Order	UPC 051115-
Singlemode				
VOL-V9L/R1	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (0.50)	12 each	14667
VOL-V9L/R2	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (1.00)	12 each	14669
VOL-V9L/R3	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (1.50)	12 each	14670
VOL-V9L/R5	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (2.50)	12 each	14671
VOL-V9L/R8	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (3.00)	12 each	14673
VOL-V9L/R15	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (6.00)	12 each	14674
VOL-V9L/R30	VF-45 to VF-45 9 µm SM LSZH/riser	12 each (10.00)	12 each	19001
Multimode 50/125				
VOL-V5L/R1	VF-45 to VF-45 50 MM LSZH/riser	12 each (0.50)	12 each	15031
VOL-V5L/R2	VF-45 to VF-45 50 MM LSZH/riser	12 each (1.00)	12 each	15033
VOL-V5L/R3	VF-45 to VF-45 50 MM LSZH/riser	12 each (1.50)	12 each	15034
VOL-V5L/R5	VF-45 to VF-45 50 MM LSZH/riser	12 each (2.50)	12 each	15035
VOL-V5L/R8	VF-45 to VF-45 50 MM LSZH/riser	12 each (3.00)	12 each	15037
VOL-V5L/R15	VF-45 to VF-45 50 MM LSZH/riser	12 each (6.00)	12 each	15038
VOL-V5L/R30	VF-45 to VF-45 50 MM LSZH/riser	12 each (10.00)	12 each	15039
Keyed Multimode 50/125 – Keyed VF-45 patch cords require keyed collars, ordered separately and applied in the field.				
VOL-KV5L/R1	Non-key VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (0.50)	12 each	18335
VOL-KV5L/R2	Non-key VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (1.00)	12 each	18336
VOL-KV5L/R3	Non-key VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (1.50)	12 each	18337
VOL-KV5L/R5	Non-key VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (2.50)	12 each	18338
VOL-KK5L/R1	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (0.50)	12 each	18339
VOL-KK5L/R2	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (1.00)	12 each	18340
VOL-KK5L/R3	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (1.50)	12 each	18341
VOL-KK5L/R5	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (2.50)	12 each	18342
VOL-KK5L/R8	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (3.00)	12 each	18343
VOL-KK5L/R10	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (4.00)	12 each	18344
VOL-KK5L/R15	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (6.00)	12 each	18345
VOL-KK5L/R20	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (8.00)	12 each	18346
VOL-KK5L/R30	Keyed VF-45 to keyed VF-45 50 MM LSZH/riser	12 each (10.00)	12 each	18347

Patch Cords and Media Converters Ordering Information

3M™ VF-45™ PATCH CORDS

Product Number	Description	Pkg. (Lbs.)	Min. Order	UPC 051115-
Multimode 62.5/125				
VOL-V6L/R1	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 1M	12 each (0.50)	12 each	18745
VOL-V6L/R2	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 2M	12 each (1.00)	12 each	18746
VOL-V6L/R3	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 3M	12 each (1.50)	12 each	18747
VOL-V6L/R5	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 5M	12 each (2.50)	12 each	18748
VOL-V6L/R8	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 8M	12 each (3.00)	12 each	18749
VOL-V6L/R10	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 10M	12 each (4.00)	12 each	71000*
VOL-V6L/R15	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 15M	12 each (6.00)	12 each	71001*
VOL-V6L/R20	Patch Cord VF-45 to VF-45 62.5 MM LSZH/riser 20M	12 each (10.00)	12 each	71002*
Keyed Multimode 62.5/125 – Keyed VF-45 patch cords require keyed collars, ordered separately and applied in the field.				
VOL-KV6L/R1	Patch Cord NON-KEY VF to KEY VF 62.5 LSZH/riser 1M	12 each (0.50)	12 each	21548
VOL-KV6L/R2	Patch Cord NON-KEY VF to KEY VF 62.5 LSZH/riser 2M	12 each (1.00)	12 each	21549
VOL-KV6L/R3	Patch Cord NON-KEY VF to KEY VF 62.5 LSZH/riser 3M	12 each (1.50)	12 each	21550
VOL-KV6L/R5	Patch Cord NON-KEY VF to KEY VF 62.5 LSZH/riser 5M	12 each (2.50)	12 each	21551
VOL-KK6L/R1	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 1M	12 each (0.50)	12 each	21539
VOL-KK6L/R2	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 2M	12 each (1.00)	12 each	21540
VOL-KK6L/R3	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 3M	12 each (1.50)	12 each	21541
VOL-KK6L/R5	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 5M	12 each (2.50)	12 each	21542
VOL-KK6L/R8	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 8M	12 each (3.00)	12 each	21543
VOL-KK6L/R10	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 10M	12 each (4.00)	12 each	21544
VOL-KK6L/R15	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 15M	12 each (6.00)	12 each	21545
VOL-KK6L/R20	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 20M	12 each (8.00)	12 each	21546
VOL-KK6L/R30	Patch Cord KEY VF to KEY VF 62.5 LSZH/riser 30M	12 each (10.00)	12 each	21547
Keyed Collars – Keyed collars require collar application tool, ordered separately.				
VOL-0030-BL	Collar to keyed patch cord, blue	12 each (0.25)	12 each	18272
VOL-0030-OR	Collar to keyed patch cord, orange	12 each (0.25)	12 each	18273
VOL-0030-GR	Collar to keyed patch cord, green	12 each (0.25)	12 each	18274
VOL-0030-BR	Collar to keyed patch cord, brown	12 each (0.25)	12 each	18275
VOL-0030-SL	Collar to keyed patch cord, slate	12 each (0.25)	12 each	18276
VOL-0030-RD	Collar to keyed patch cord, red	12 each (0.25)	12 each	18277
VOL-0030-BK	Collar to keyed patch cord, black	12 each (0.25)	12 each	18278
VOL-0030-YL	Collar to keyed patch cord, yellow	12 each (0.25)	12 each	18279
VOL-0030-VI	Collar to keyed patch cord, violet	12 each (0.25)	12 each	18280
VOL-0030-RS	Collar to keyed patch cord, rose	12 each (0.25)	12 each	18281
VOL-0030-AQ	Collar to keyed patch cord, aqua	12 each (0.25)	12 each	18282
VOL-0563B	Tool for collar application	1 each (0.25)	1 each	18397

*UPC Prefix 051138-

3M™ Volition™ Ethernet Media Converter
VOL-M100FX-AN

The Volition media converter provides an inexpensive way to extend data links over long distances (2 km in full-duplex mode) and provides connectivity at the workstation between copper and fiber media.

The media converter is designed to connect either 100Base-TX or 10Base-T networking equipment to 100BaseFX fiber optic systems. This small and compact unit can be installed at any workstation operating at 10 or 100 Mbps.

The media converter is shipped with an AC/DC switching power supply and is also capable of tapping power via the USB port on both desktop and laptop computers with the provided USB cable. The compact size of this media converter allows it to be stored out of the way of the user.

3M™ Volition™ Ethernet Media Converter

Features
Cost effective copper-to-fiber conversion using 3M™ VF-45™ Interface
Full-duplex transmission
Compact size, easy to install
Complies with relevant IEEE 802.3/standards
Auto-negotiation and auto-MDI/MDIX on TP wiring
Plug and play
Extend operating distances to 2 km in full-duplex mode

Extend data link over distance

3M™ Volition™ Ethernet Media Converter VOL-M100FX-AN

Specifications		
	Ethernet standard	IEEE 802.3u/802.3
	Networking	10 base T/100 base TX/100 base FX
Copper	Connector	RJ45 100 ohm
	Distance	100 meters
Fiber	Connector	VF-45
	Source	LED
	Wavelength	1300 nm
	Distance	2 km
	Fiber types	50/125 µm and 62.5/125 µm
	Sensitivity	-31 dBm
	Output power	0.275 NA fiber:
	62.5/125 mm	-14 dBm to –20 dBm
	Output power	0.20 NA fiber:
	50/125 mm	-19 dBm to –25 dBm
Electrical	Power usage and	2 W
	BTU/hr	6.7 BTU/hr
	Wall outlet	100-240 VAC, 50-60 Hz
	Power requirements	North American, EUR, and UK power cables included
	USB supplied power (5 V and <400 mA typical)	Unit can draw power off a USB port via the supplied power cable. USB port cannot be shared with other devices.
Environmental	Temperature:	0° C ~ +42° C
	Operating	+32° F ~ +107.6°
	Temperature:	-30° C ~ +65° C
	Storage	-22° F ~ +149° F
	Humidity: operating	85% R.H. non-condensing
	Humidity: storage	90% R.H.
Physical	Size – approx.	7.6 x 5.2 x 2.3 cm (3.2 x 2.0 x 0.8 in.)
	Weight – approx.	50 gm / 1.75 oz
Agency approvals	Electromagnetic	FCC Part15, Class A, EN55022, Class A
	Safety	UL1950, cUL, EN60950

Ordering Information

Product Number	Description	PKG (Lbs.)	Min. Order	UPC 051115-
VOL-M100FX-AN	100 meg media converter auto-negotiating, USB power	6 each (7.80)	6 each	16208

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3M™ Volition™ VF-45™ Field Mount Plug

The field mount plug facilitates the use of consolidation point designs, enables emergency link creation through field-made cable assemblies, and allows custom length cable assemblies to be made on site. It is terminated onto Volition style two-fiber cable with the quick install kit, the same kit used for the VF-45 socket. An additional plug actuation tool is required and ordered separately.

Specifications

VF-45 field mount plug interconnected with VF-45 sockets conform to the following combination of TIA and 3M performance specifications:

Test	Test Condition/Requirements	Typical Results 50	Typical Results 62.5
Attenuation	< 0.75 dB max	850 nm Avg. = -0.35, Std. Dev. = 0.11, 1310 nm Avg. = -0.31, Std. Dev. = 0.10 dB	850 nm Avg. = 0.34, Std. Dev. = 0.10, 1310 nm Avg. = 0.26, Std. Dev. = 0.09 dB
Reflection	> 20 dB max	850 nm Avg. = -34.31, Std. Dev. = 1.21, 1310 nm Avg. = -35.91, Std. Dev. = 1.46 dB	850 nm Avg. = 27.8, Std. Dev. = 1.27 dB, 1310 nm Avg. = 29.3, Std. Dev. = 1.55 dB
Mating durability	500 cycles, < 0.75 dB max	Pass	Pass
Strength of coupling	> 33 N, < 0.75 dB max	Pass	Pass
Plug flex	100 cycles, ± 90 degrees, 0.5 kg, < 0.75 dB max	Pass	Pass
Plug twist	10 cycles, ± 2.5 revolutions, 15 N, < 0.75 dB max	Pass	Pass
Cold	-0°C for 96 hours, < 0.3 dB increase	Pass	Pass
Heat	+60°C for 4 days, < 0.3 dB increase	Pass	Pass
Cycling	-10°C to 60°C, 5 cycles, < 0.3 dB increase	Pass	Pass
Humidity	95% RH, +40°C for 4 days, < 0.3 dB increase	Pass	Pass
Tensile load	> 50 N, side pull > 19.4 N	Pass	Pass
Plug cable retention	< 0.75 dB max	Pass	

Ordering Information

Product Number	Description	Pkg.	Min. Order	UPC 051115-
The field mount plug is available in 50 μm and 62.5 μm multimode versions, in packages of 12.				
VOL-FMP612	VF-45 field mount plug 62.5/125 MM non-keyed	12/package	12/each	15569
The field mount plug is designed for termination to Volition style two-fiber horizontal cable and requires the VF-45 quick install kit and actuation tool. Consumables are provided with each package.				
VOL-0563	VF-45 quick install kit	1 each	1 package	16206
VOL-0563A	Actuation tool, VF-45 field mount plug	1 each	1 package	15115

*UPC prefix 051138-

NOTE: MM – Multimode; SM – Singlemode
To order Volition style horizontal and backbone cable, contact General Cable at 859-572-8933

Volition™ VF-45™ Termination Kits

The VF-45 Quick Install Kit contains all the materials necessary to install VF-45 sockets onto duplex fiber optic cable. You can complete fiber installations fast and easy; duplex fiber terminations can be completed in less than two minutes. The kit is also used for termination of VF-45 Field Mount Plugs.

VF-45 Quick Install Kit

Product Number: VOL-0563 Pkg (lbs.): 1 kit (4.08) **Min. Order:** 1 kit **UPC:** 051115-16206

VF-45 Maintenance Cleaning Kit

For both keyed and non-keyed VF-45 sockets

Product Number: VOL-0573 **Pkg (lbs.):** 1 kit (2.04) **Min. Order:** 1 kit UPC: 051115-14607

HFE-Based Cleaning Fluid, 16 oz. Bottle

Product Number: VOL-0570A **Pkg (lbs.):** 12 each (20.76) **Min. Order:** 12 each
UPC: 051138-58561

Ordering Information

Volition™ VF-45™ Termination Kit Replacements

Product Number	Description	Pkg. (lbs.)	Min. Order	UPC 051115-
6365-JS	Jacket stripper	1 each (0.22)	1 each	16201
VOL-0560B	Snips	1 each (0.22)	1 each	58564*
VOL-0560C	Micromodule stripper	1 each (0.10)	1 each	58565*
VOL-0560D	Fiber stripper, 250 µm coating	1 each (0.12)	1 each	58566*
VOL-0560F	Polishing puck assembly (includes puck polishing face)	1 each (0.14)	1 each	58568*
VOL-0560G	Puck polishing face	12 each (0.10)	12 each	58569*
VOL-0562H	Polishing station assembly	1 each (0.92)	1 each	88324*
VOL-0562J	Quick polish cleave button	1 each (0.40)	1 each	88239*
VOL-0562K-666XW	Lapping film, 2 x 5	500 sheets	50 sheets	70035***
VOL-0563M	Microscope dual light	1 each (1.12)	1 each	16207
VOL-0560N	Cotton swabs	10 pkgs. (0.80)	10 pkgs.	58595*
05-00017	Lint free cloth	100/pack (0.05)	1 pack	48999**
VOL-0560R	Bottle, alcohol, empty	12 each (0.74)	12 each	58597*
05-00251	Cleaning wipes	1 each (0.10)	1 each	49017**
VOL-0562S	Quick install tool case	1 each (1.22)	1 each	88237*
VOL-0562M	Tool pouch	1 each (0.62)	1 each	88238*

*UPC prefix 051138-

**UPC prefix 054007-

***UPC prefix 051111-

Volition™ VF-45™ Reference Test Cable Set

Reference cable kits enable connections to test equipment with the ST, SC or FC connector interface. Essential for creating a reference reading prior to link testing, they can be used with other manufacturers' test equipment.

The transmit cable consists of a VF-45 plug on one end and a choice of either two ST, SC or FC connectors on the other end. The receive cable has a VF-45 socket housed in a protective casing on one end and at the other end there are either two ST, SC or FC connectors.

Reference Cable Kit with ST 62.5/125 µm
Product Number: VOL-UREF-062-ST **Pkg (lbs.):** 1 kit (0.70) **Min. Order:** 1 kit   UPC: 051115-13773

Reference Cable Kit with SC 62.5/125 µm
Product Number: VOL-UREF-062-SC **Pkg (lbs.):** 1 kit (0.70) **Min. Order:** 1 kit   UPC: 051115-14577

Reference Cable Kit with ST 50/125 µm
Product Number: VOL-UREF-050-ST **Pkg (lbs.):** 1 kit (0.20) **Min. Order:** 1 kit   **UPC:** 051115-13767

Reference Cable Kit with SC 50/125 µm
Product Number: VOL-UREF-050-SC **Pkg (lbs.):** 1 kit (0.65) **Min. Order:** 1 kit   **UPC:** 051115-13770

Reference Cable Kit with SC 9/125 µm
Product Number: VOL-UREF-SM-SC **Pkg (lbs.):** 1 kit (0.64) **Min. Order:** 1 kit   **UPC:** 051115-14579

Reference Cable Kit with FC 9/125 µm
Product Number: VOL-UREF-SM-FC **Pkg (lbs.):** 1 kit (0.64) **Min. Order:** 1 kit   **UPC:** 051115-14580

Reference Cable Kit with ST 9/125 µm
Product Number: VOL-UREF-SM-ST **Pkg (lbs.):** 1 kit (0.50) **Min. Order:** 1 kit   **UPC:** 051115-14578

Interconnect Solutions for Telecommunications

3M™ Volition™ VF-45™ Fiber Optic Patch

3M offers a complete line of fiber patch panels and interconnect solutions for the telecommunications room environment. These high-density and flexible panels are designed for the 3M™ Volition™ VF-45™ Fiber Interconnect.

Rack Mounted Patch Panels

Rack mounted patch panel for every installation requiring "flush mount" technology of the 3M™ Volition™ VF-45™ Sockets with maximum port density means efficient use of the space in the 19" rack with flush front ports. Each panel includes slide mount hardware to allow access to rear cable management.

Product Number: VOL-0400EXP-G

Description: Expansion Panel for VOL-0400 Series Patch Panel, Slide Kit, Green

PKG. (lbs.): 1 each (1.16)   **Min. order:** 1 each   **UPC:** 051115-14548

Product Number: VOL-0400S-G

Description: Patch Panel, Rack Mount, 24 Port 2U with Cable Management Slide Kit, Green

PKG. (lbs.): 1 each (8.00)   **Min. order:** 1 each   **UPC:** 051138-87451

Product Number: VOL-0401S-G

Description: Patch Panel, Rack Mount, 24 Port 1U without Cable Management Slide Kit, Green

PKG. (lbs.): 1 each (6.85)   **Min. order:** 1 each   **UPC:** 051138-87453

Wall Mounted Patch Panels

Wall patch panels are manufactured in powder-coated sheet metal and can be fixed to the wall quickly and easily by four screws. A hinged door on the front can be padlocked (not supplied) for extra security.

Product Number: VOL-0406B

Description: 6 Port Wall Mounted Patch Panel with Bezels

PKG. (lbs.): 1 each (2.57)   **Min. order:** 1 each   **UPC:** 051115-13719

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To order 3M™ Volition™ products, call 800/426 8688.
For more information, please contact your local 3M representative.

To order 3M™ Volition™ style horizontal and backbone cable, contact General Cable at 859-572-8933.

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