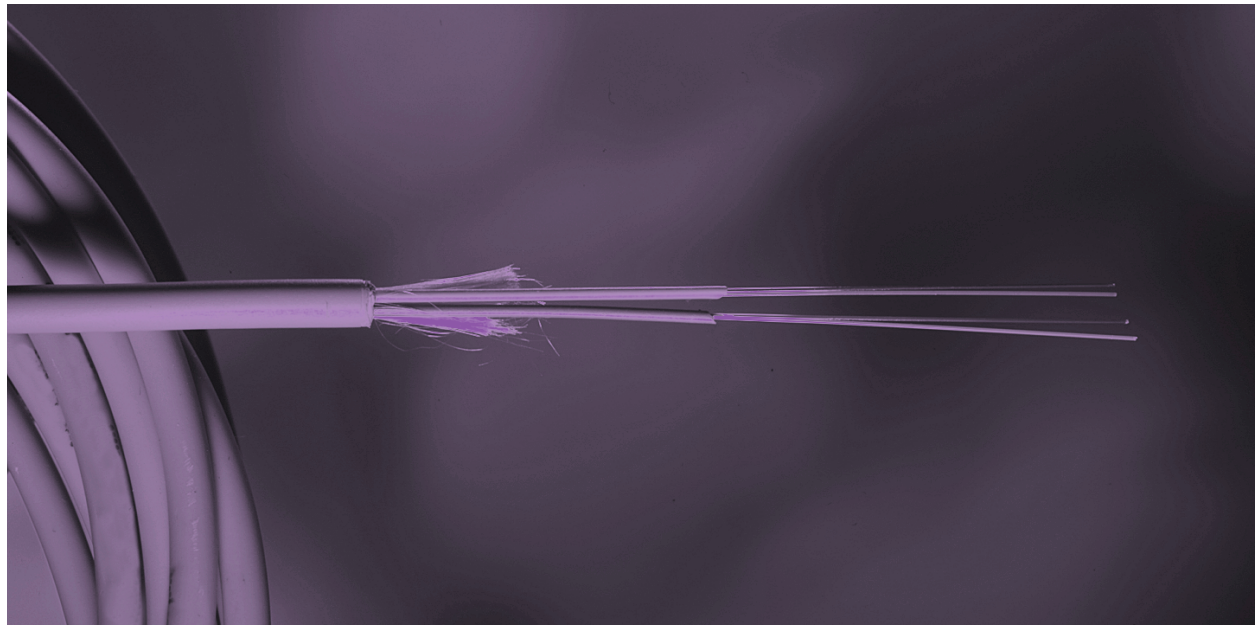
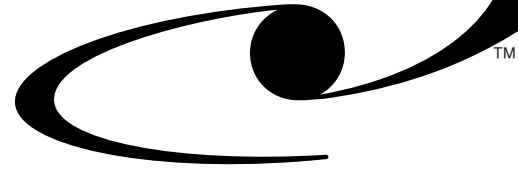


Volition™ Fiber Optic Cable



TOUGH ENOUGH TO TAKE IT. EASY TO HANDLE.



The Volition Network Solution from 3M includes horizontal and backbone cable with 62.5/125 μm and 50/125 μm multimode fiber, and 9/125 μm singlemode fiber supplied exclusively by Corning Incorporated.

The horizontal cable connects telecommunications closets to work area outlets. The cable is terminated in the closet's Volition Patch Panel and at the work area outlets with a Volition VF-45™ Socket. Horizontal cable is available with two or four fibers constructed with two 250 μm coated fibers housed in a 900 μm buffer tube. Cable jackets are OFNR (riser rated), OFNP (plenum rated), or LSZH (low-smoke zero-halogen rated).

The backbone cable connects telecommunications closets together or to the main distribution area, and is terminated into a Volition patch panel. 62.5/125 μm and 50/125 μm backbone cable is offered in counts of 6-, 12-, 24-, 48-, 72-, and 96-fibers, with two 250 μm coated fibers in each 900 μm buffer tube. 9 μm singlemode backbone cabling is offered in counts of 6-, 12-, 24-, 48- with two 250 μm coated fibers in each 900 μm buffer tube. Cable jackets are OFNR (riser rated), OFNP (plenum rated), or LSZH (low-smoke zero-halogen rated).

The cable's construction incorporates strength members that resist crushing during cable pulling and 90 degree bends. All fiber optic cables meet the performance requirements in ANSI/TIA/EIA-568-A specifications.

3M Innovation

Volition™ 62.5 μm Multimode Fiber Optic Cable

FEATURES

- Small diameter size
- Produced to industry specs
- Two fibers per buffer tube
- Corning Infinicor™ 300 Fiber
- Color-coded buffers
- Soft buffer tubes

BENEFITS

- Minimizes weight and cable installation
- Minimizes number and size of conduit required
- Provides maximum cables per conduit
- Ensures system compatibility and interoperability
- Easy installation and organization
- Simultaneous duplex termination with Volition™ VF-45™ Socket (VOL-0001)
- Fast and easy fiber identification
- Quick fiber strip

HORIZONTAL FIBER CABLE

(2-, 4-fiber count)

- Fiber-to-the-desk cable for very high speed multimedia application
- Rugged construction, with 100lb. maximum load
- *2-fiber breakout structure with individually protected tubes
- Color-coded fibers to identify transmitting and receiving fibers
- Small size and weight simplify pulling and installation
- OFNP, OFNR and LSZH rated versions available
- Standard 62.5/125/250 micron fibers
- *62.5/125 μm fibers comply with IEC 793/2, FDDI, and Gigabit Ethernet specifications
- Corning Infinicor 300 Fiber

Ordering Information — Horizontal Cable 62.5 μm

Model #	Description	Packaging	Min. Order
VOL-H62P1	Horizontal 62.5/125 μm, 2-fiber Plenum	1 km/reel	1 km (3280 ft.)
VOL-H62R1	Horizontal 62.5/125 μm, 2-fiber Riser	1 km/reel	1 km (3280 ft.)
VOL-H62L1	Horizontal 62.5/125 μm, 2-fiber LSZH	1 km/reel	1 km (3280 ft.)
VOL-H64P1	Horizontal 62.5/125 μm, 4-fiber Plenum	1 km/reel	1 km (3280 ft.)
VOL-H64R1	Horizontal 62.5/125 μm, 4-fiber Riser	1 km/reel	1 km (3280 ft.)
VOL-H64L1	Horizontal 62.5/125 μm, 4-fiber LSZH	1 km/reel	1 km (3280 ft.)

BACKBONE FIBER CABLE

(6-, 12-, 24-, 48-, 72-, 96-fiber count)

- Very high speed multimedia backbone cable (up to 1 Gbps)
- Rugged construction
- Low friction jacket allows in-building installation by laying (trays, surface raceway furniture systems), or pulling (under-floor duct, conduits)
- Individually color-coded fibers for ease of identification
- Standard 62.5/125/250 micron fibers
- Corning Infinicor™ 300 fiber

Ordering Information — Backbone Cable 62.5/125 μm

Model #	Description	Min. Order m (ft.)
VOL-B66R1	Backbone 62.5/125 μm , 6-fiber riser	76.2 (250)
VOL-B612R1	Backbone 62.5/125 μm , 12-fiber riser	76.2 (250)
VOL-B624R1	Backbone 62.5/125 μm , 24-fiber riser	76.2 (250)
VOL-B648R1	Backbone 62.5/125 μm , 48-fiber riser	76.2 (250)
VOL-B672R1	Backbone 62.5/125 μm , 72-fiber riser	76.2 (250)
VOL-B696R1	Backbone 62.5/125 μm , 96-fiber riser	76.2 (250)
VOL-B66L1	Backbone 62.5/125 μm , 6-fiber LSZH	76.2 (250)
VOL-B612L1	Backbone 62.5/125 μm , 12-fiber LSZH	76.2 (250)
VOL-B624L1	Backbone 62.5/125 μm , 24-fiber LSZH	76.2 (250)
VOL-B648L1	Backbone 62.5/125 μm , 48-fiber LSZH	76.2 (250)
VOL-B672L1	Backbone 62.5/125 μm , 72-fiber LSZH	76.2 (250)
VOL-B696L1	Backbone 62.5/125 μm , 96-fiber LSZH	76.2 (250)
VOL-B66P1	Backbone 62.5/125 μm , 6-fiber Plenum	76.2 (250)
VOL-B612P1	Backbone 62.5/125 μm , 12-fiber Plenum	76.2 (250)
VOL-B624P1	Backbone 62.5/125 μm , 24-fiber Plenum	76.2 (250)
VOL-B648P1	Backbone 62.5/125 μm , 48-fiber Plenum	76.2 (250)
VOL-B672P1	Backbone 62.5/125 μm , 72-fiber Plenum	76.2 (250)
VOL-B696P1	Backbone 62.5/125 μm , 96-fiber Plenum	76.2 (250)

SPECIFICATIONS

Attenuation	Bandwidth	Standard Lengths
3.5 dB/km @ 850 nm max.	225 MHz-km @ 850 nm max.	1 km (3280 ft.), 2 km (6561 ft.)
1.0 dB/km @ 1300 nm max.	500 MHz-km @ 1300 nm max.	1 km (3280 ft.), 2 km (6561 ft.)

Backbone Cable 62.5/125 μ m coated MM (cont.)

Model #	# of Fibers	Weight per reel (kg / km)	Cable Rating	Jacket Color
VOL-B66P1	6-fiber	15.0 kg / km	OFNP	orange
VOL-B66R1	6-fiber	16.4 kg / km	OFNR	orange
VOL-B66L1	6-fiber	16.4 kg / km	LSZH	blue
VOL-B612P1	12-fiber	16.0 kg / km	OFNP	orange
VOL-B612R1	12-fiber	26.8 kg / km	OFNR	orange
VOL-B612L1	12-fiber	26.8 kg / km	LSZH	blue
VOL-B624P1	24-fiber	27.0 kg / km	OFNP	orange
VOL-B624R1	24-fiber	37.2 kg / km	OFNR	orange
VOL-B624L1	24-fiber	37.2 kg / km	LSZH	blue
VOL-B648P1	48-fiber	120 kg / km	OFNP	orange
VOL-B648R1	48-fiber	125 kg / km	OFNR	orange
VOL-B648L1	48-fiber	125 kg / km	LSZH	blue
VOL-B672P1	72-fiber	192 kg / km	OFNP	orange
VOL-B672R1	72-fiber	196 kg / km	OFNR	orange
VOL-B672L1	72-fiber	168 kg / km	LSZH	blue
VOL-B696L1	96-fiber	268 kg / km	OFNP	orange
VOL-B696P1	96-fiber	269 kg / km	OFNR	orange
VOL-B696L1	96-fiber	293 kg / km	LSZH	blue

SPECIFICATIONS (CONT.)

Horizontal Cable 62.5/125 μ m coated MM

Model #	# of Fibers	Bend Radius, cm (short / long term)	Maximum Load (lb. / N)	Cable Outer Dia. (mm / in.)
VOL-H62P1	2-fiber	5.0 / 3.0	100 lb. / 440 N	2.8 mm / 0.110 in.
VOL-H62R1	2-fiber	5.0 / 3.0	100 lb. / 440 N	2.9 mm / 0.114 in.
VOL-H62L1	2-fiber	5.0 / 3.0	100 lb. / 440 N	2.8 mm / 0.110 in.
VOL-H64P1	4-fiber	5.0 / 3.0	100 lb. / 440 N	3.25 mm / 0.128 in.
VOL-H64R1	4-fiber	5.0 / 3.0	100 lb. / 440 N	3.35 mm / 0.132 in.
VOL-H64L1	4-fiber	5.0 / 3.0	100 lb. / 440 N	3.25 mm / 0.128 in.

Model #	# of Fibers	Weight per reel (kg / km)	Cable Rating	Jacket Color
VOL-H62P1	2-fiber	7.2 kg / km	OFNP	orange
VOL-H62R1	2-fiber	8.3 kg / km	OFNR	orange
VOL-H62L1	2-fiber	7.4 kg / km	LSZH	blue
VOL-H64P1	4-fiber	10.5 kg / km	OFNP	orange
VOL-H64R1	4-fiber	10.4 kg / km	OFNR	orange
VOL-H64L1	4-fiber	9.8 kg / km	LSZH	blue

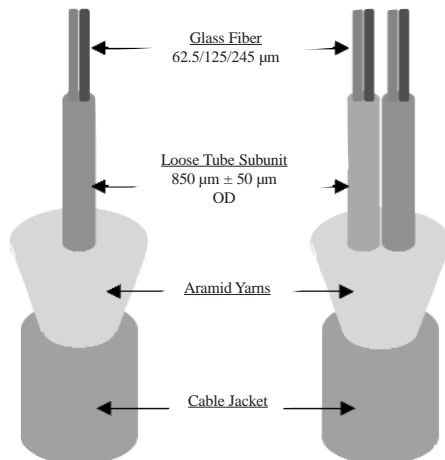
Backbone Cable 62.5/125 μ m coated MM

Model #	# of Fibers	Bend Radius, cm (short / long term)	Maximum Load (lb. / N)	Cable Outer Dia. (mm / in.)
VOL-B66P1	6-fiber	6.6 / 4.4	150 lb. / 660 N	5.2 mm / 0.205 in.
VOL-B66R1	6-fiber	7.8 / 5.2	150 lb. / 660 N	5.2 mm / 0.205 in.
VOL-B66L1	6-fiber	7.8 / 5.2	150 lb. / 660 N	5.2 mm / 0.205 in.
VOL-B612P1	12-fiber	7.2 / 4.8	150 lb. / 660 N	5.6 mm / 0.220 in.
VOL-B612R1	12-fiber	8.4 / 5.6	150 lb. / 660 N	5.6 mm / 0.220 in.
VOL-B612L1	12-fiber	8.4 / 5.6	150 lb. / 660 N	5.6 mm / 0.220 in.
VOL-B624P1	24-fiber	8.6 / 5.7	300 lb. / 1320 N	5.7 mm / 0.224 in.
VOL-B624R1	24-fiber	9.8 / 6.5	300 lb. / 1320 N	6.5 mm / 0.256 in.
VOL-B624L1	24-fiber	9.8 / 6.5	300 lb. / 1320 N	6.5 mm / 0.256 in.
VOL-B648P1	48-fiber	18.6 / 12.4	1263 lb. / 5618 N	12.4 mm / 0.488 in.
VOL-B648R1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.496 in.
VOL-B648L1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.496 in.
VOL-B672L1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B672P1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B672R1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B696L1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.
VOL-B696P1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.
VOL-B696R1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.

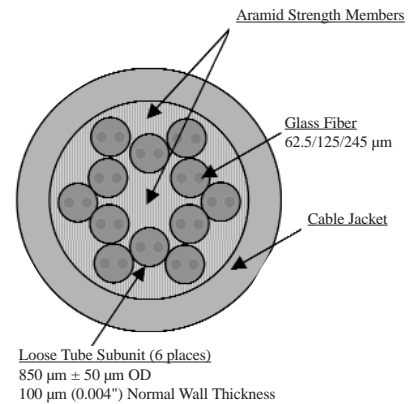
Operating Temperature Range -10° to 60°C
 All cables exceed the performance requirements in
 ANSI/TIA/EIA-568-A specifications

The Volition™ Cabling System from 3M includes horizontal and
 backbone cable with 62.5/125 µm multimode fiber supplied exclusively
 by Corning Incorporated.

2- AND 4-FIBER HORIZONTAL



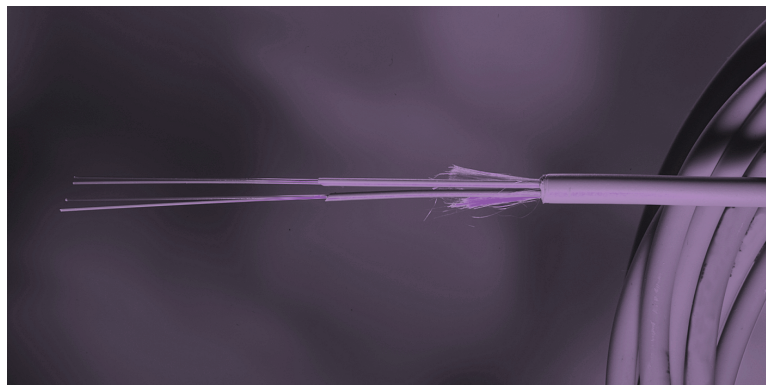
24-FIBER BACKBONE



Backbone Cable 62.5/125 µm

Model #	# of Fibers	Weight per reel (kg / km)	Cable Rating	Jacket Color
VOL-B66P1	6-fiber	15.0 kg / km	OFNP	orange
VOL-B66R1	6-fiber	16.4 kg / km	OFNR	orange
VOL-B66L1	6-fiber	16.4 kg / km	LSZH	blue
VOL-B612P1	12-fiber	16.0 kg / km	OFNP	orange
VOL-B612R1	12-fiber	26.8 kg / km	OFNR	orange
VOL-B612L1	12-fiber	26.8 kg / km	LSZH	blue
VOL-B624P1	24-fiber	27.0 kg / km	OFNP	orange
VOL-B624R1	24-fiber	37.2 kg / km	OFNR	orange
VOL-B624L1	24-fiber	37.2 kg / km	LSZH	blue
VOL-B648P1	48-fiber	120 kg / km	OFNP	orange
VOL-B648R1	48-fiber	125 kg / km	OFNR	orange
VOL-B648L1	48-fiber	125 kg / km	LSZH	blue
VOL-B672P1	72-fiber	125 kg / km	OFNP	orange
VOL-B672R1	72-fiber	125 kg / km	OFNR	orange
VOL-B672L1	72-fiber	125 kg / km	LSZH	blue
VOL-B696P1	96-fiber	125 kg / km	OFNP	orange
VOL-B696R1	96-fiber	125 kg / km	OFNR	orange
VOL-B696L1	96-fiber	125 kg / km	LSZH	blue

Volition™ 50 µm Multimode Fiber Optic Cable



The Volition Network Solutions from 3M includes horizontal and backbone cable with 50/125 µm multimode Infinicor™ 600 fiber supplied to 3M by Corning Incorporated.

The horizontal cable connects telecommunications closets to work area outlets. The cable is terminated with Volition VF-45™ Sockets in the closets' Volition Patch Panel and at the work area outlet. Horizontal cable is available with two or four fibers constructed with two 250 µm coated fibers housed in a 900 µm buffer tube. Cable jackets are OFNR (riser rated), OFNP (plenum rated), or LSZH (low-smoke zero-halogen rated).

The backbone cable connects telecommunications closets together or to the main equipment room, and is terminated into a Volition patch panel. Backbone cable is offered in counts of 6-, 12-, 24-, 48-, 72-, and 96-fibers, with two 250 µm coated fibers in each 900 µm buffer tube. Cable jackets are OFNR (riser rated), OFNP (plenum rated), or LSZH (low-smoke zero-halogen rated).

The cable's construction incorporates strength members that resist crushing during cable pulling and 90 degree bends. All fiber optic cables meet the performance requirements in TIA/EIA and ISO/IEC 11801 specifications.

Volition 50 µm Multimode Fiber Optic Cable

FEATURES

- Small diameter size
- Produced to industry specs
- Two fibers per buffer tube
- Color-coded buffers
- Soft buffer tubes
- 500/500 MHz-Km bandwidth
- Corning Infinicor™ 600 fiber

BENEFITS

- Minimizes weight and cable installation
Minimizes number and size of conduit required
Provides maximum cables per conduit
- Ensures system compatibility and interoperability
- Easy installation and organization
- Fast and easy fiber identification
- Quick fiber strip
- Extended distance at higher speeds
- Tighter bend radius

HORIZONTAL FIBER CABLE

(2-, 4-fiber count)

- Fiber-to-the-desk cable for very high speed multimedia application
- Rugged construction
 - *2-fiber breakout structure with individually protected tubes
- Color-coded tubes to identify transmitting and receiving fibers
- Small size and weight simplify pulling and installation
- OFNP, OFNR and LSZH rated versions available
- 50/125/250 micron fibers
- Corning Infinicor™ 600 fiber

Ordering Information — Horizontal Cable .50µm

Model #	Description	Packaging	Min. Order
VOL-H52P1	Horizontal 50/125 µm, 2-fiber Plenum	1 km/reel	1 km (3280 ft.)
VOL-H52R1	Horizontal 50/125 µm, 2-fiber Riser	1 km/reel	1 km (3280 ft.)
VOL-H52L1	Horizontal 50/125 µm, 2-fiber LSZH	1 km/reel	1 km (3280 ft.)
VOL-H54P1	Horizontal 50/125 µm, 4-fiber Plenum	1 km/reel	1 km (3280 ft.)
VOL-H54R1	Horizontal 50/125 µm, 2-fiber Riser	1 km/reel	1 km (3280 ft.)
VOL-H54L1	Horizontal 50/125 µm, 4-fiber LSZH	1 km/reel	1 km (3280 ft.)

BACKBONE FIBER CABLE

(6-, 12-, 24-, 48-, 72-, and 96-fiber count)

- Very high speed multimedia backbone cable (Gigabit ready)
- Rugged construction
- Low friction jacket allows in-building installation by laying (trays, trenches,...), or pulling (trenches, conduits,...)
- Individually color-coded fibers for ease of identification
- Standard 50/125/250 micron fibers
- Corning Infinicor™ 600 fiber

Ordering Information — Backbone Cable .50µm

Model #	Description	Packaging
VOL-B56R1	Backbone 50/125 µm, 6-fiber Riser	76 (250)
VOL-B512R1	Backbone 50/125 µm, 12-fiber Riser	76 (250)
VOL-B524R1	Backbone 50/125 µm, 24-fiber Riser	76 (250)
VOL-B548R1	Backbone 50/125 µm, 48-fiber Riser	76 (250)
VOL-B572R1	Backbone 50/125 µm, 72-fiber Riser	76 (250)
VOL-B596R1	Backbone 50/125 µm, 96-fiber Riser	76 (250)
VOL-B56L1	Backbone 50/125 µm, 6-fiber LSZH	76 (250)
VOL-B512L1	Backbone 50/125 µm, 12-fiber LSZH	76 (250)
VOL-B524L1	Backbone 50/125 µm, 24-fiber LSZH	76 (250)
VOL-B548L1	Backbone 50/125 µm, 48-fiber LSZH	76 (250)
VOL-B572L1	Backbone 50/125 µm, 72-fiber LSZH	76 (250)
VOL-B596L1	Backbone 50/125 µm, 96-fiber LSZH	76 (250)
VOL-B56P1	Backbone 50/125 µm, 6-fiber Plenum	76 (250)
VOL-B512P1	Backbone 50/125 µm, 12-fiber Plenum	76 (250)
VOL-B524P1	Backbone 50/125 µm, 24-fiber Plenum	76 (250)
VOL-B548P1	Backbone 50/125 µm, 48-fiber Plenum	76 (250)
VOL-B572P1	Backbone 50/125 µm, 72-fiber Plenum	76 (250)
VOL-B596P1	Backbone 50/125 µm, 96-fiber Plenum	76 (250)

SPECIFICATIONS

Attenuation

3.5 dB/km @ 850 nm max.

1.5 dB/km @ 1300 nm max.

Bandwidth

500 mhz-km @ 850 nm max.

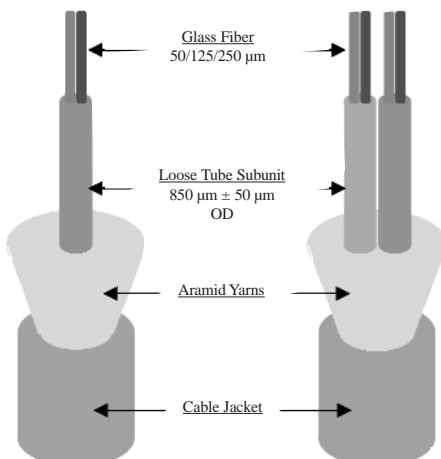
500 mhz-km @ 1300 nm max.

Operating Temperature Range -10° to 60°C

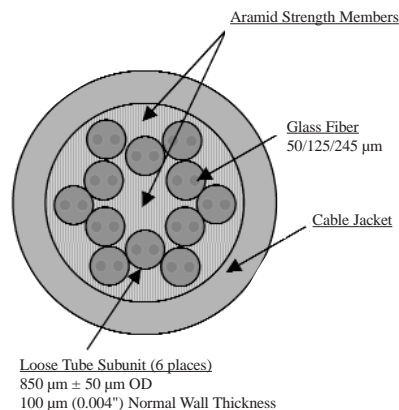
All cables meet the performance requirements in TIA/EIA specifications

The Volition™ Cabling System from 3M includes horizontal and backbone cable with 50/125 µm Infinicor™ 600 fiber supplied exclusively by Corning Incorporated.

2- AND 4-FIBER HORIZONTAL



24-FIBER BACKBONE



SPECIFICATIONS (CONT.)

Horizontal Cable 50/125 μ m

Model #	# of Fibers	Bend Radius, cm (short / long term)	Maximum Load (lb. / N)	Cable Outer Dia. (mm / in.)
VOL-H52P1	2-fiber	5.0 / 3.0	100 lb. / 440 N	2.8 mm / 0.110 in.
VOL-H52R1	2-fiber	5.0 / 3.0	100 lb. / 440 N	2.8 mm / 0.110 in.
VOL-H52L1	2-fiber	5.0 / 3.0	100 lb. / 440 N	2.8 mm / 0.110 in.
VOL-H54P1	4-fiber	5.0 / 3.0	100 lb. / 440 N	3.1 mm / 0.122 in.
VOL-H54R1	4-fiber	5.0 / 3.0	100 lb. / 440 N	3.1 mm / 0.122 in.
VOL-H54L1	4-fiber	5.0 / 3.0	100 lb. / 440 N	3.1 mm / 0.122 in.

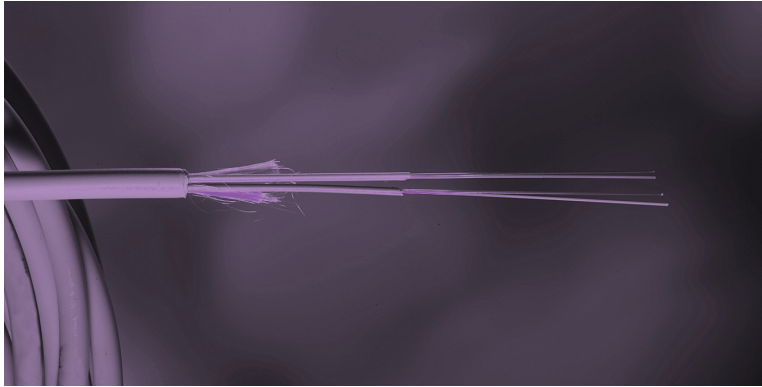
Model #	# of Fibers	Weight per reel (kg / km)	Cable Rating	Jacket Color
VOL-H52P1	2-fiber	7.4 kg / km	OFNP	orange
VOL-H52R1	2-fiber	7.4 kg / km	OFNR	orange
VOL-H52L1	2-fiber	7.4 kg / km	LSZH	blue
VOL-H54P1	4-fiber	9.5 kg / km	OFNP	orange
VOL-H54R1	4-fiber	9.5 kg / km	OFNR	orange
VOL-H54L1	4-fiber	9.5 kg / km	LSZH	blue

Backbone Cable 50/125 μ m

Model #	# of Fibers	Bend Radius, cm (short / long term)	Maximum Load (lb. / N)	Cable Outer Dia. (mm / in.)
VOL-B56P1	6-fiber	6.6 / 4.4	150 lb. / 660 N	5.2 mm / 0.205 in.
VOL-B56R1	6-fiber	7.8 / 5.2	150 lb. / 660 N	5.2 mm / 0.205 in.
VOL-B56L1	6-fiber	7.8 / 5.2	150 lb. / 660 N	5.2 mm / 0.205 in.
VOL-B512P1	12-fiber	7.2 / 4.8	150 lb. / 660 N	5.6 mm / 0.220 in.
VOL-B512R1	12-fiber	8.4 / 5.6	150 lb. / 660 N	5.6 mm / 0.220 in.
VOL-B512L1	12-fiber	8.4 / 5.6	150 lb. / 660 N	5.6 mm / 0.220 in.
VOL-B524P1	24-fiber	8.6 / 5.7	150 lb. / 660 N	5.7 mm / 0.224 in.
VOL-B524R1	24-fiber	9.8 / 6.5	150 lb. / 660 N	6.5 mm / 0.256 in.
VOL-B524L1	24-fiber	9.8 / 6.5	150 lb. / 660 N	6.5 mm / 0.256 in.
VOL-B548P1	48-fiber	18.6 / 12.4	1263 lb. / 5618 N	12.4 mm / 0.488 in.
VOL-B548R1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.496 in.
VOL-B548L1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.49 in.
VOL-B572P1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B572R1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B596P1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.
VOL-B596R1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.

Model #	# of Fibers	Weight per reel (kg / km)	Cable Rating	Jacket Color
VOL-B56P1	6-fiber	15.0 kg / km	OFNP	orange
VOL-B56R1	6-fiber	16.4 kg / km	OFNR	orange
VOL-B56L1	6-fiber	16.4 kg / km	LSZH	blue
VOL-B512P1	12-fiber	16.0 kg / km	OFNP	orange
VOL-B512R1	12-fiber	26.8 kg / km	OFNR	orange
VOL-B512L1	12-fiber	26.8 kg / km	LSZH	blue
VOL-B524P1	24-fiber	27.0 kg / km	OFNP	orange
VOL-B524R1	24-fiber	37.2 kg / km	OFNR	orange
VOL-B524L1	24-fiber	37.2 kg / km	LSZH	blue
VOL-B548P1	48-fiber	120 kg / km	OFNP	orange
VOL-B548R1	48-fiber	125 kg / km	OFNR	orange
VOL-B548L1	48-fiber	125 kg / km	LSZH	blue
VOL-B572L1	72-fiber	125 kg / km	LSZH	blue
VOL-B596L1	96-fiber	125 kg / km	LSZH	blue

Volition™ 9 μm Singlemode Fiber Optic Cable



The Volition Network Solution from 3M includes horizontal and backbone cable with 9/125 μm single-mode fiber supplied exclusively by Corning Incorporated.

The horizontal cable connects telecommunications closets to work area outlets. The cable is terminated in the closet's Volition patch panel and at the work area outlets with a Volition VF-45™ socket. Horizontal cable is available with two or four fibers constructed with two 250 μm coated fibers housed in a 900 μm buffer tube. Cable jackets are OFNR (riser rated), OFNP (plenum rated), or LSZH (low-smoke zero-halogen rated).

The backbone cable connects telecommunications closets together or to the main distribution area, and is terminated into a Volition patch panel. Backbone cable is offered in counts of 6-, 12-, 24-, 48-, 72- and 96-fibers, with two 250 μm coated fibers in each 900 μm buffer tube. Cable jackets are OFNR (riser rated), OFNP (plenum rated), or LSZH (low-smoke zero-halogen rated).

The cable's construction incorporates strength members that resist crushing during cable pulling and 90 degree bends. All fiber optic cables meet the performance requirements in ANSI/TIA/EIA-492-AAA specifications.

FEATURES

- Small diameter size
- Produced to industry specs
- Two fibers per buffer tube
- Color-coded buffers
- Soft buffer tubes

BENEFITS

- Minimizes weight and cable installation
Minimizes number and size of conduit required
Provides maximum cables per conduit
- Ensures system compatibility and interoperability
- Easy installation and organization
Simultaneous duplex termination with
Volition VF-45 Socket (VOL-0002)
- Fast and easy fiber identification
- Quick fiber strip

HORIZONTAL FIBER CABLE

(2-, 4-fiber count)

- Fiber-to-the-desk cable for very high speed multimedia application
- Rugged construction
 - *2-fiber breakout structure with individually protected tubes
- Color-coded tubes to identify transmitting and receiving fibers
- Small size and weight simplify pulling and installation
- OFNP, OFNR and LSZH rated versions available
- Standard 9/125/250 micron fibers
- Corning fiber

Ordering Information — Horizontal Cable

Model #	Description	Packaging	Min. Order
VOL-H92P1	Horizontal 9/125/250 μ m, 2-fiber Plenum	1 km/reel	1 km (3280 ft.)
VOL-H94P1	Horizontal 9/125/250 μ m, 4-fiber Plenum	1 km/reel	1 km (3280 ft.)
VOL-H92R1	Horizontal 9/125/250 μ m, 2-fiber Riser	1 km/reel	1 km (3280 ft.)
VOL-H94R1	Horizontal 9/125/250 μ m, 4-fiber Riser	1 km/reel	1 km (3280 ft.)
VOL-H92L1	Horizontal 9/125/250 μ m, 2-fiber LSZH	1 km/reel	1 km (3280 ft.)
VOL-H94L1	Horizontal 9/125/250 μ m, 4-fiber LSZH	1 km/reel	1 km (3280 ft.)

BACKBONE FIBER CABLE

(6-, 12-, 24-, 48-, 72- and 96-fiber count)

- Very high speed multimedia backbone cable
- Rugged construction
- Low friction jacket allows in-building installation by laying (trays, surface raceway furniture systems,...), or pulling (under-floor duct, conduits,...)
- Individually color-coded fibers for ease of identification
- Standard 9/125/250 micron fibers

Ordering Information — Backbone Cable

Model #	Description	Min. Order M (ft.)
VOL-B96P1	Backbone 9/125/250 μ m, 6-fiber Plenum	76.2 (250)
VOL-B96R1	Backbone 9/125/250 μ m, 6-fiber Riser	76.2 (250)
VOL-B96L1	Backbone 9/125/250 μ m, 6-fiber LSZH	152 (500)
VOL-B912P1	Backbone 9/125/250 μ m, 12-fiber Plenum	76.2 (250)
VOL-B912R1	Backbone 9/125/250 μ m, 12-fiber Riser	76.2 (250)
VOL-B912L1	Backbone 9/125/250 μ m, 12-fiber LSZH	152 (500)
VOL-B924P1	Backbone 9/125/250 μ m, 24-fiber Plenum	76.2 (250)
VOL-B924R1	Backbone 9/125/250 μ m, 24-fiber Riser	76.2 (250)
VOL-B924L1	Backbone 9/125/250 μ m, 24-fiber LSZH	152 (500)
VOL-B948P1	Backbone 9/125/250 μ m, 48-fiber Plenum	76.2 (250)
VOL-B948R1	Backbone 9/125/250 μ m, 48-fiber Riser	76.2 (250)
VOL-B948L1	Backbone 9/125/250 μ m, 48-fiber LSZH	152 (500)
VOL-B972P1	Backbone 9/125/250 μ m, 72-fiber Plenum	76.2 (250)
VOL-B972R1	Backbone 9/125/250 μ m, 72-fiber Riser	76.2 (250)
VOL-B972L1	Backbone 9/125/250 μ m, 72-fiber LSZH	152 (500)
VOL-B996P1	Backbone 9/125/250 μ m, 96-fiber Plenum	76.2 (250)
VOL-B996R1	Backbone 9/125/250 μ m, 96-fiber Riser	76.2 (250)
VOL-B996L1	Backbone 9/125/250 μ m, 96-fiber LSZH	152 (500)

SPECIFICATIONS

Attenuation

.07 dB/km @ 1310 nm

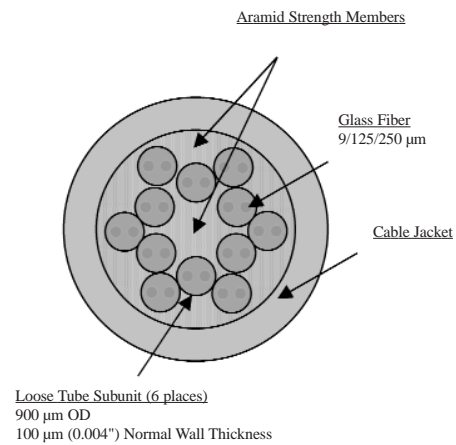
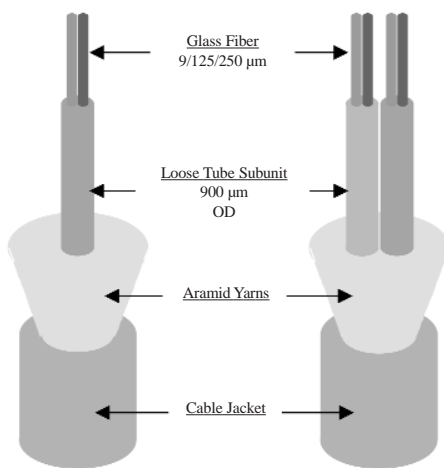
.07 dB/km @ 1550 nm

Operating Temperature Range -10° to 60°C

All cables exceed the performance requirements in ANSI/TIA/EIA-492-AAAA specifications.

The Volition™ Cabling System from 3M includes horizontal and backbone cable with 9/125 μm single-mode fiber supplied exclusively by Corning Incorporated.

2- AND 4-FIBER HORIZONTAL 24-FIBER BACKBONE



Horizontal Cable 9/125 μ m SM

Model #	# of Fibers (short / long term)	Bend Radius, cm (lb. / N)	Maximum Load (mm / in.)	Cable OuterDia.
VOL-H92P1	2-fiber	4.4 / 2.9	100 lb. / 440 N	2.9 mm / 0.114 in.
VOL-H94P1	4-fiber	4.4 / 2.9	100 lb. / 440 N	2.9 mm / 0.114 in.
VOL-H92R1	2-fiber	4.4 / 2.9	100 lb. / 440 N	2.9 mm / 0.114 in.
VOL-H94R1	4-fiber	4.4 / 2.9	100 lb. / 440 N	2.9 mm / 0.114 in.
VOL-H92L1	2-fiber	3.8 / 2.5	100 lb. / 440 N	2.5 mm / 0.098 in.
VOL-H94L1	4-fiber	4.7 / 3.1	100 lb. / 440 N	3.1 mm / 0.122 in.

Model #	# of Fibers	Weight per reel (kg / km)	Cable Rating	Jacket Color
VOL-H92P1	2-fiber	7.4	OFNP	yellow
VOL-H94P1	4-fiber	9.5	OFNP	yellow
VOL-H92R1	2-fiber	7.4	OFNR	yellow
VOL-H94R1	4-fiber	9.5	OFNR	yellow
VOL-H92L1	2-fiber	7.4	LSZH	green
VOL-H94L1	4-fiber	9.5	LSZH	green

Backbone Cable 9/125 μ m SM

Model #	# of Fibers	Bend Radius, cm (short / long term)	Maximum Load (lb. / N)	Cable Outer Dia. (mm / in.)
VOL-B96P1	6-fiber	6.6 / 4.4	150 lb. / 660 N	4.4 mm / 0.173 in.
VOL-B96R1	6-fiber	7.2 / 4.8	150 lb. / 660 N	4.8 mm / 0.189 in.
VOL-B96L1	6-fiber	7.2 / 4.8	150 lb. / 660 N	4.8 mm / 0.189 in.
VOL-B912P1	12-fiber	7.2 / 4.8	150 lb. / 660 N	4.8 mm / 0.189 in.
VOL-B912R1	12-fiber	7.2 / 4.8	150 lb. / 660 N	4.8 mm / 0.189 in.
VOL-B912L1	12-fiber	7.2 / 4.8	150 lb. / 660 N	4.8 mm / 0.189 in.
VOL-B924P1	24-fiber	8.7 / 5.8	300 lb. / 1320 N	5.8 mm / 0.228 in.
VOL-B924R1	24-fiber	8.7 / 5.8	300 lb. / 1320 N	5.8 mm / 0.228 in.
VOL-B924L1	24-fiber	8.7 / 5.8	300 lb. / 1320 N	5.8 mm / 0.228 in.
VOL-B948P1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.496 in.
VOL-B948R1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.496 in.
VOL-B948L1	48-fiber	18.9 / 12.6	1263 lb. / 5618 N	12.6 mm / 0.496 in.
VOL-B972P1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B972R1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B972L1	72-fiber	24.5 / 16.4	1263 lb. / 5618 N	16.36 mm / 0.644 in.
VOL-B996P1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.
VOL-B996R1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.
VOL-B996L1	96-fiber	27.2 / 18.1	1263 lb. / 5618 N	18.14 mm / 0.714 in.

Backbone Cable 9/125 μm SM (Cont.)

Model #	# of Fibers	Weight (kg / km)	Cable Rating	Jacket Color
VOL-B96P1	6-fiber	15.0	OFNP	yellow
VOL-B96R1	6-fiber	16.4	OFNR	yellow
VOL-B96L1	6-fiber	16.4	LSZH	green
VOL-B912P1	12-fiber	16.0	OFNP	yellow
VOL-B912R1	12-fiber	26.8	OFNR	yellow
VOL-B912L1	12-fiber	26.8	LSZH	green
VOL-B924P1	24-fiber	27.0	OFNP	yellow
VOL-B624R1	24-fiber	37.2	OFNR	yellow
VOL-B624L1	24-fiber	37.2	LSZH	green
VOL-B948P1	48-fiber	120	OFNP	yellow
VOL-B948R1	48-fiber	125	OFNR	yellow
VOL-B948L1	48-fiber	125	LSZH	green
VOL-B972P1	72-fiber	192	OFNP	yellow
VOL-B972R1	72-fiber	196	OFNR	yellow
VOL-B972L1	72-fiber	168	LSZH	green
VOL-B996P1	96-fiber	268	OFNP	yellow
VOL-B996R1	96-fiber	269	OFNR	yellow
VOL-B996L1	96-fiber	293	LSZH	green

Important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one year from the date of purchase. 3M MAKES NO OTHER WARRANTIES


INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.



Telecom Systems Division

6801 River Place Blvd.
Austin, TX 78726-9000
800 695-0447
FAX 512 990-7962
<http://www.3M.com/volition>

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