

# Duplex Multimode 50/125 Fiber Patch Cable (LC/SC), 3M (10 ft.)

MODEL NUMBER: N516-03M



#### **Features**

- Constructed with 50/125 micron cable
- Length 3M
- Use on fiber and fibre channel installations
- SC male to LC male connectors
- Higher bandwidth optimized for gigabit and 10Gbps networks
- Backward compatible with 62.5 micron fiber
- Built-in headroom for future applications
- Number of fibers: 2
- Fiber type: all glass graded index
- Core diameter: two 50+/-3 microns
- CLAD diameter: 125+/-2 microns
- Primary coating diameter: 245+/-15 microns
- Primary coating material: acrylate
- Secondary coating diameter: 900+/-50 microns
- · Secondary coating material: PVC
- Attenuation @850NM: 3.5DB/KM maximum, @1300NM: 1.0DB/KM maximum
- Bandwidth @850NM: 220 MHz-KM minimum, @1300NM: 600 MHz-KM minimum
- Numeric aperture: .275 nominal
- Proof test level: 100,000 PSI
- Insertion loss testing performed on every connector (0.2db typical) and provided with cable
- Beveled edge on ends of glass makes insertion of plug a breeze

# **Specifications**

## **Highlights**

- Premium PVC 50/125 multimode patch cables
- Attenuation loss meets or exceeds the latest industry standards
- Higher bandwidth, optimized for gigabit and 10Gbps networks
- Backward compatible with 62.5 micron fiber
- Built-in headroom for future applications

#### **System Requirements**

 Any fiber optic hardware or NIC card requiring multimode duplex cable with LC/SC connectors

## **Package Includes**

 3M Duplex MMF Cable LC/SC 50/125 Fiber



Bandwidth € 1300NM         600 MHz-km minimum           Bandwidth € 850NM         220 MHz-km minimum           Numerical Aperture         275 nominal           Primary Coating Material         ACRYLATE           Proof Test Level         100,000 PSI           Secondary Coating Material         PVC           Technology         Multimode           Optical Mode         OM2           PRYSICAL           Cable Jacket Color         Orange           Connector Color         White; Beige           Cable Jacket Raterial         LSZH           Cable Jacket Raterial         LSZH           Cable Jacket Raterial         LSZH           Cable Jacket Raterial (Incorons)         125           Care Diameter (microns)         125           Care Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         29           Cable Length (ft.)         9.8           Cable Length (fil.)         9.8           Cable Length (fil.)         0.29 a           Cable Length (fil.)         0.25 x 6.20 x 6.30           Shipping Dimensions (fived / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (fived / in.) </th <th></th> <th></th>		
Bandwidth € 1300NM         600 MHz-km minimum           Bandwidth € 850NM         220 MHz-km minimum           Numerical Aperture         275 nominal           Primary Coating Material         ACRYLATE           Proof Test Level         100,000 PSI           Secondary Coating Material         PVC           Technology         Multimode           Optical Mode         OM2           PRYSICAL           Cable Jacket Color         Orange           Connector Color         White; Beige           Cable Jacket Raterial         LSZH           Cable Jacket Raterial         LSZH           Cable Jacket Raterial         LSZH           Cable Jacket Raterial (Incorons)         125           Care Diameter (microns)         125           Care Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         29           Cable Length (ft.)         9.8           Cable Length (fil.)         9.8           Cable Length (fil.)         0.29 a           Cable Length (fil.)         0.25 x 6.20 x 6.30           Shipping Dimensions (fived / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (fived / in.) </th <th>OVERVIEW</th> <th></th>	OVERVIEW	
Bandwidth @ 850NM         226 MHz-km minimum           Numerical Aperture         .275 nominal           Primary Coating Material         ACRYLATE           Proof Tost Level         100,000 PSI           Secondary Coating Material         PVC           Technology         Multimode           Optical Mode         OM2           PHYSICAL           Cable Jacket Color         Orange           Connector Color         White: Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Dameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Mumber of Fibers         2           Cable Length (ft.)         9.8           Cable Length (ft.)         9.8           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (ftg)         0.05           Shipping Weight (ftg)         0.05           Fiber Cable Length         3M (0.8 ft)	UPC Code	037332117229
Numerical Aperture         275 nominal           Primary Coating Material         ACRYLATE           Proof Test Level         100,000 PSI           Secondary Coating Material         PVC           Technology         Multimode           Optical Mode         OM2           PHYSICAL           Cable Jacket Color         Orange           Connector Color         White: Beige           Connector Color         White: Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clab Jacket Rating         OFNR           Cable Langth (microns)         245           Saccordary Coating Diameter (microns)         29 <tr< td=""><td>Bandwidth @ 1300NM</td><td>600 MHz-km minimum</td></tr<>	Bandwidth @ 1300NM	600 MHz-km minimum
Primary Coating Material         ACRYLATE           Proof Test Level         100,000 PSI           Secondary Coating Material         PVC           Technology         Multimode           Optical Mode         0M2           PHYSICAL           Cable Jacket Color         Orange           Connector Color         White; Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Pimary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (ft.)         9.8           Cable Length (ft.)         9.9           Cable Length (ft.)         118.1           Minimum Bend Radius         20 mm (Dynamic): 10 mm (Static)           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (fts.)         0.10           Shipping Weight (fts.)         0.05           Filber Cable Length	Bandwidth @ 850NM	220 MHz-km minimum
Proof Test Level         100,000 PSI           Secondary Coating Material         PVC           Technology         Multimode           Optical Mode         OM2           PHYSICAL           Cable Jacket Color         Orange           Connector Color         White; Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         9.0           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (ft.)         9.8           Cable Length (ft.)         118.1           Minimum Bend Radius         2.0 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / rm)         0.64 x 15.75 x 16.00           Shipping Weight (bs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to	Numerical Aperture	.275 nominal
Secondary Coating Material   PVC	Primary Coating Material	ACRYLATE
Technology	Proof Test Level	100,000 PSI
Optical Mode         OM2           PHYSICAL           Cable Jacket Color         Orange           Connector Color         White: Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         245           Secondary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (in.)         118.1           Minimum Bend Radius         2.0 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (fwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (fwd / cm)         0.64 x 15.75 x 16.00           Shipping Dimensions (fwd / cm)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         4° to 140°F (-20° to 60°C)           Storage Temperature Range         4° to 140°F (-20° to 60°C)	Secondary Coating Material	PVC
PHYSICAL           Cable Jacket Color         Orange           Connector Color         White; Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         25           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / in.)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)	Technology	Multimode
Cable Jacket Color         Orange           Connector Color         White; Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Coperating Temperature Range         4° to 140°F (-20° to 60°C)           Storage Temperature Range         4° to 140°F (-20° to 60°C)	Optical Mode	OM2
Connector Color         White; Beige           Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         4* to 140°F (-20° to 60°C)           Storage Temperature Range         -4* to 140°F (-20° to 60°C)	PHYSICAL	
Cable Jacket Material         LSZH           Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)    ENVIRONMENTAL  Operating Temperature Range  4º to 140°F (-20° to 60°C)  Storage Temperature Range  -4º to 140°F (-20° to 60°C)	Cable Jacket Color	Orange
Cable Jacket Rating         OFNR           Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)	Connector Color	White; Beige
Clad Diameter (microns)         125           Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)	Cable Jacket Material	LSZH
Core Diameter (microns)         50           Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)	Cable Jacket Rating	OFNR
Primary Coating Diameter (microns)         245           Secondary Coating Diameter (microns)         900           Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)           ENVIRONMENTAL           Operating Temperature Range         -4° to 140°F (-20° to 60°C)           Storage Temperature Range         -4° to 140°F (-20° to 60°C)	Clad Diameter (microns)	125
Secondary Coating Diameter (microns)   900	Core Diameter (microns)	50
Number of Fibers         2           Cable Length (ft.)         9.8           Cable Length (m)         2.99           Cable Length (in.)         118.1           Minimum Bend Radius         20 mm (Dynamic); 10 mm (Static)           Shipping Dimensions (hwd / in.)         0.25 x 6.20 x 6.30           Shipping Dimensions (hwd / cm)         0.64 x 15.75 x 16.00           Shipping Weight (lbs.)         0.10           Shipping Weight (kg)         0.05           Fiber Cable Length         3M (9.8 ft)    ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Primary Coating Diameter (microns)	245
Cable Length (ft.)       9.8         Cable Length (m)       2.99         Cable Length (in.)       118.1         Minimum Bend Radius       20 mm (Dynamic); 10 mm (Static)         Shipping Dimensions (hwd / in.)       0.25 x 6.20 x 6.30         Shipping Dimensions (hwd / cm)       0.64 x 15.75 x 16.00         Shipping Weight (lbs.)       0.10         Shipping Weight (kg)       0.05         Fiber Cable Length       3M (9.8 ft)         ENVIRONMENTAL         Operating Temperature Range       -4° to 140°F (-20° to 60°C)         Storage Temperature Range       -4° to 140°F (-20° to 60°C)	Secondary Coating Diameter (microns)	900
Cable Length (m)       2.99         Cable Length (in.)       118.1         Minimum Bend Radius       20 mm (Dynamic); 10 mm (Static)         Shipping Dimensions (hwd / in.)       0.25 x 6.20 x 6.30         Shipping Dimensions (hwd / cm)       0.64 x 15.75 x 16.00         Shipping Weight (lbs.)       0.10         Shipping Weight (kg)       0.05         Fiber Cable Length       3M (9.8 ft)         ENVIRONMENTAL         Operating Temperature Range       -4° to 140°F (-20° to 60°C)         Storage Temperature Range       -4° to 140°F (-20° to 60°C)	Number of Fibers	2
Cable Length (in.)       118.1         Minimum Bend Radius       20 mm (Dynamic); 10 mm (Static)         Shipping Dimensions (hwd / in.)       0.25 x 6.20 x 6.30         Shipping Dimensions (hwd / cm)       0.64 x 15.75 x 16.00         Shipping Weight (lbs.)       0.10         Shipping Weight (kg)       0.05         Fiber Cable Length       3M (9.8 ft)         ENVIRONMENTAL         Operating Temperature Range       -4° to 140°F (-20° to 60°C)         Storage Temperature Range       -4° to 140°F (-20° to 60°C)	Cable Length (ft.)	9.8
Minimum Bend Radius 20 mm (Dynamic); 10 mm (Static)  Shipping Dimensions (hwd / in.) 0.25 x 6.20 x 6.30  Shipping Dimensions (hwd / cm) 0.64 x 15.75 x 16.00  Shipping Weight (lbs.) 0.10  Shipping Weight (kg) 0.05  Fiber Cable Length 3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range -4° to 140°F (-20° to 60°C)  Storage Temperature Range -4° to 140°F (-20° to 60°C)	Cable Length (m)	2.99
Shipping Dimensions (hwd / in.)  O.25 x 6.20 x 6.30  Shipping Dimensions (hwd / cm)  O.64 x 15.75 x 16.00  Shipping Weight (lbs.)  O.10  Shipping Weight (kg)  O.05  Fiber Cable Length  M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Cable Length (in.)	118.1
Shipping Dimensions (hwd / cm)  O.64 x 15.75 x 16.00  Shipping Weight (lbs.)  O.05  Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Minimum Bend Radius	20 mm (Dynamic); 10 mm (Static)
Shipping Weight (lbs.)  Shipping Weight (kg)  0.05  Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Shipping Dimensions (hwd / in.)	0.25 x 6.20 x 6.30
Shipping Weight (kg)  Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Shipping Dimensions (hwd / cm)	0.64 x 15.75 x 16.00
Fiber Cable Length  3M (9.8 ft)  ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Shipping Weight (lbs.)	0.10
ENVIRONMENTAL  Operating Temperature Range  -4° to 140°F (-20° to 60°C)  Storage Temperature Range  -4° to 140°F (-20° to 60°C)	Shipping Weight (kg)	0.05
Operating Temperature Range -4° to 140°F (-20° to 60°C) Storage Temperature Range -4° to 140°F (-20° to 60°C)	Fiber Cable Length	3M (9.8 ft)
Storage Temperature Range -4° to 140°F (-20° to 60°C)	ENVIRONMENTAL	
	Operating Temperature Range	-4° to 140°F (-20° to 60°C)
Operating Humidity Range 5% to 85% RH, Non-Condensing	Storage Temperature Range	-4° to 140°F (-20° to 60°C)
	Operating Humidity Range	5% to 85% RH, Non-Condensing



Storage Humidity Range	35% to 65% RH, Non-Condensing
COMMUNICATIONS	
Network Compatibility	1 Gbps (Gigabit); 10 Gbps; 25 Gbps
Attenuation @ 850NM	3.0 dB/km
Insertion Loss	LC 0.20 dB; SC 0.20 dB
CONNECTIONS	
Side A - Connector 1	LC DUPLEX (MALE)
Side B - Connector 1	SC DUPLEX (MALE)
Endface Polish	PC
FEATURES & SPECIFICATIONS	
Push/Pull Tabs	No
Breakout	No
Trunk	No
STANDARDS & COMPLIANCE	
Product Compliance	RoHS; REACH
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	Lifetime limited warranty



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