

SIMPLEX OPTICAL CABLE

DESCRIPTION:

- Optical Fiber
- Tight buffer construction
- Aramid yarn strength element
- PVC jacket

PROPERTIES:

Terminated cables for interconnection
Design compatible with standard connectors

SPECIFICATIONS:

NEC 770 GR-CORE 409
NOM-001-SEDE, UL Listed

RoHS

Standard lengths of 1000 ft or 5000 ft reels.



Weight kg/km	Overall Diameter mm	Buffer Diameter µm	Maximum Installation Tension	Compression N/cm	Minimum Bend Radius mm	Operating Temperature °C
9.0	2.9	900	350	400	60	-10 to +50

Type of Fiber	Attenuation dB/km	Core Diameter µm	Propagation Mode	Bandwidth Diameter	Numerical Aperture
Single Mode	1.0 @ 1310 nm & 1550 nm	—	9.3 @ 1300 nm	—	—
50 µm Multimode	3.0 @ 850 nm, 1.2 @ 1300 nm	50 ± 3	—	400 - 600	0.2 ± 0.015
62.5 µm Multimode	3.2 @ 850 nm, 0.9 @ 1300 nm	62.5 ± 3	—	160 - 500	0.275 ± 0.15

Single Mode		Multimode 62.5 µm		Multimode 50 µm	
OFNR	OFNP	OFNR	OFNP	OFNR	OFNP
69010 001 10	69000 001 10	69010 001 30	69000 001 30	69010 001 20	69000 001 20

DUPLEX OPTICAL CABLE

*All values are nominal,
and subject to
manufacturing tolerances.

DESCRIPTION:

- Optical Fiber
- Tight buffer construction
- Aramid yarn strength element
- PVC jacket

PROPERTIES:

Terminated cables for interconnection
Design compatible with standard connectors

SPECIFICATIONS:

NEC 700, GR-CORE 409
NOM-001-SEDE, UL Listed

RoHS

Standard lengths of 1000 ft and 5000 ft reels.



Weight kg/km	Overall Diameter mm	Buffer Diameter µm	Maximum Installation Tension	Compression N/cm	Minimum Bend Radius mm	Operating Temperature °C
18	2.8 x 5.9	900	660	750	60	-10 to +50

Type of Fiber	Attenuation dB/km	Core Diameter µm	Propagation Mode	Bandwidth Diameter	Numerical Aperture
Single Mode	1.0 @ 1310 nm & 1550 nm	—	9.3 @ 1300 nm	—	—
50 µm Multimode	3.0 @ 850 nm, 1.2 @ 1300 nm	50 ± 3	—	400 - 600	0.2 ± 0.015
62.5 µm Multimode	3.2 @ 850 nm, 0.9 @ 1300 nm	62.5 ± 3	—	160 - 500	0.275 ± 0.15

Single Mode		Multimode 62.5 µm		Multimode 50 µm	
OFNR	OFNP	OFNR	OFNP	OFNR	OFNP
69011 002 10	69001 002 10	69011 002 30	69001 002 30	69011 002 20	69001 002 20



Premise Network Fiber Optic

DISTRIBUTION OPTICAL CABLE

DESCRIPTION:

- Optical Fiber
- Tight buffer construction
- Aramid yarn strength element
- PVC jacket

PROPERTIES:

Terminated cables for interconnection
Design compatible with standard connectors

SPECIFICATIONS:

NEC 770, GR-CORE 409
NOM-001-SEDE, UL Listed
RoHS

Standard lengths of 1000 ft and 5000 ft reels.

*All values are nominal, and subject to manufacturing tolerances.



Buffer Diameter μm	Compression N/cm	Minimum Bend Radius		Operating Temperature $^{\circ}\text{C}$
		unloaded	loaded	
900	750	10 x cable diameter	20 x cable diameter	-10 to +50

Type of Fiber	Attenuation dB/km	Core Diameter μm	Propagation Mode	Bandwidth Diameter	Numerical Aperture
Single Mode	1.0 @ 1310 nm & 1550 nm	—	9.3 @ 1300 nm	—	—
50 μm Multimode	3.0 @ 850 nm, 1.2 @ 1300 nm	50 \pm 3	—	400 - 600	0.2 \pm 0.015
62.5 μm Multimode	3.2 @ 850 nm, 0.9 @ 1300 nm	62.5 \pm 3	—	160 - 500	0.275 \pm 0.15

OFNR

Number of Fibers	Overall Diameter mm	Weight kg/km	Maximum Installation Tension (N)	Single Mode Fiber	Multimode Fiber 62.5 μm	Multimode Fiber 50 μm
2	3.5	13	800	69020 002 10	69020 002 30	69020 002 20
4	4.0	24	800	69020 004 10	69020 004 30	69020 004 20
6	4.0	39	800	69020 006 10	69020 006 30	69020 006 20
8	4.5	42	800	69020 008 10	69020 008 30	69020 008 20
12	5.0	48	1200	69020 012 10	69020 012 30	69020 012 20

OFNP

Number of Fibers	Overall Diameter mm	Weight kg/km	Maximum Installation Tension (N)	Single Mode Fiber	Multimode Fiber 62.5 μm	Multimode Fiber 50 μm
2	3.5	13	800	69020 002 10	69020 002 30	69020 002 20
4	4.0	24	800	69020 004 10	69020 004 30	69020 004 20
6	4.0	39	800	69020 006 10	69020 006 30	69020 006 20
8	4.5	42	800	69020 008 10	69020 008 30	69020 008 20
12	5.0	48	1200	69020 012 10	69020 012 30	69020 012 20



Premise Network Fiber Optic

BREAK-OUT OPTICAL CABLE

DESCRIPTION:

- Simplex Optical Fiber in individual jackets
- Tight buffer construction
- Aramid yarn strength element
- PVC jacket

PROPERTIES:

- Terminated cables for interconnection
- Design compatible with standard connectors

SPECIFICATIONS:

NEC 7000, GR-CORE 409
 NOM-001-SEDE, UL Listed
RoHS

Standard lengths of 1000 ft or 5000 ft reels.

*All values are nominal, and subject to manufacturing tolerances.



Buffer Diameter μm	Jacket Diameter of Each Fiber mm	Compression N/cm	Minimum Bend Radius		Operating Temperature $^{\circ}\text{C}$
			unloaded	loaded	
900	2.6	750	15 x cable diameter	20 x cable diameter	-10 to +50

Type of Fiber	Attenuation dB/km	Core Diameter μm	Propagation Mode	Bandwidth Diameter	Numerical Aperture
Single Mode	1.0 @ 1310 nm & 1550 nm	—	9.3 @ 1300 nm	—	—
50 μm Multimode	3.0 @ 850 nm, 1.2 @ 1300 nm	50 \pm 3	—	400 - 600	0.2 \pm 0.015
62.5 μm Multimode	3.2 @ 850 nm, 0.9 @ 1300 nm	62.5 \pm 3	—	160 - 500	0.275 \pm 0.15

OFNR

Number of Fibers	Overall Diameter mm	Weight kg/km	Maximum Installation Tension (N)	Single Mode Fiber	Multimode Fiber 62.5 μm	Multimode Fiber 50 μm
4	8.5	28	1200	69050 004 10	69050 004 30	69050 004 20
6	10.5	39	1500	69050 006 10	69050 006 30	69050 006 20
8	12.0	42	1500	69050 008 10	69050 008 30	69050 008 20
12	13.0	48	1500	69050 012 10	69050 012 30	69050 012 20

OFNP

Number of Fibers	Overall Diameter mm	Weight kg/km	Maximum Installation Tension (N)	Single Mode Fiber	Multimode Fiber 62.5 μm	Multimode Fiber 50 μm
4	8.5	24	1200	69040 004 10	69040 004 30	69040 004 20
6	10.5	39	1500	69040 006 10	69040 006 30	69040 006 20
8	12.0	42	1500	69040 008 10	69040 008 30	69040 008 20
12	13.0	48	1500	69040 012 10	69040 012 30	69040 012 20