



OPTIPLUS
n e t w o r k s



STRUCTURED
CABLING PARTNER

SINGLE/MULTIMODE LOOSE TUBE OPTICAL CABLE

OPTIPLUS LOOSE TUBE OPTICAL CABLE offers cables with increased fiber density and easy deployment for a wide range of installations such as duct, aerial (lashed and self-supporting), direct buried, and indoor/outdoor. Optiplus SM/MM cables are manufactured with E-Glass strength members and Polyethylene (PE) or Low Smoke Zero Halogen (LSZH) jacket. The single/multiloose tube cables consist of 2 to 24, 250µm optical fibers in a single/multi gel filled loose tube.



Standards:

- ITU-T G652.B OS1
- ITU-T G652.D OS2
- ITU-T G651.1 OM1 OM2 OM3 OM4
- ANSI/TIA/EIA 568C.3
- ISO/IEC 11801
- ISO/IEC 24702
- IEC60793-2-10 type A1a.1/A1b OM1/OM2
- IEEE 802.3z Gigabit Ethernet

Features:

- Utilize bend insensitive optical fibers.
- Each fiber is colour coded for easy identification.
- Suitable for Indoor /Outdoor applications.
- E-Glass strength members for rodent resistance.
- Flame retardant LSZH jacket option for enhanced fire performance.

Technical Specifications:

DESCRIPTION		4-12 CORE	14-24 CORE	24-60 CORE	72 CORE	96 CORE	122 CORE	144 CORE
Outer Diameter	mm	6.5±0.3	6.7±0.3	10.5±0.4	11.1±0.4	12.6±0.4	14.1±0.4	15.6±0.4
Weight (LSZH)	Kg/Km	29/47	35/48	90/116	97/125	121/157	148/196	178/239
Max. Load (Installation)	N	1000	1000	1500	1500	1500	1500	1500
Max. Load (Installed)	N	500	500	600	600	600	600	600
Min Bend Radius (Installation)	mm	20D	20D	210	220	250	280	310
Min Bend Radius (Installed)	mm	10D	10D	105	110	125	140	155
Type		LSZH	LSZH	LSZH	LSZH	LSZH	LSZH	LSZH
Operating Temperature	°C	-20 - +60	-20 - +60	-40 - +70	-40 - +70	-40 - +70	-40 - +70	-40 - +70
Storage Temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60
Installation Temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60
Max. Crush Resistance	N/100mm	1000	1000	2000	2000	2000	2000	2000

Optical Characteristics:

Type	Max. Attenuation (dB/Km)				Min. overfill Launch Bandwidth MHz-Km		Min. Gigabit Ethernet Support Distance (meters)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	Gigabit	10 Gigabit	850nm
OM1 62.5/125µm	3.25	1.0			200	500	300	550	33
OM2 50/125µm	3.25	1.0			700	500	750	550	150
OM3 50/125µm	3.0	1.0			1500	500	1000	550	300
OM4 50/125µm	3.0	1.0			3500	500	1100	550	550
OS1 9/125 µm			0.40	0.30					
OS2 9/125 µm			0.40	0.30					

Ordering Information:

PART NUMBER	FIBER COUNT	Outer Diameter (mm)	Loose Tube Diameter (mm)	Cable Weight (Kg/Km)
OP-XX-115002	2	10.0	5	98.0
OP-XX-115004	4	10.0	5	98.0
OP-XX-115006	6	10.0	5	98.0
OP-XX-115012	12	10.0	5	98.0
OP-XX-1150024	24	10.0	5	98.0
OP-XX-1150048	48	11.5	6	120.0
OP-XX-1150096	96	13.6	8	154.0
OP-XX-11500144	144	17.5	12	275.0

Ordering Guide:

JACKET	FIBER TYPE (XX)	FIBER COUNT
LSZH	BM = 50/125 OM2 Multimode CM = 50/125 OM3 Multimode ES = 9/125 OS2 Singlemode	No. of Fiber

Colour Code:

BL-BLUE	BR-BROWN	RE-RED	PU-PURPLE
OR-ORANGE	GY-GREY	BK-BLACK	PI-PINK
GR-GREEN	WH-WHYTE	YE-YELLOW	AQ-AQUA

SINGLE/MULTIMODE LOOSE TUBE OPTICAL CABLE-ARMOURED

OPTIPLUS LOOSE TUBE OPTICAL CABLE is suitable for environments where impact protection is required. The single/multi loose tube cables consists of 2 to 24, 250µm optical fibers in a single/multi gel filled loose tube with longitudinally applied E-glass non-metallic strength members, Corrugated Steel Tape (CST) armouring and LSZH or HDPE jacket. Optiplus singlemode or multimode cables are suitable for external duct or direct burial installations.



Standards:

- ITU-T G652 B OS1
- ITU-T G652 D OS2
- ITU-T G651.1 OM1 OM2 OM3 OM4
- ANSI/TIA/EIA 568C.3
- ISO/IEC 11801
- ISO/IEC 24702
- IEC60793-2-10 type A1a.1/A1b OM1/OM2
- IEEE 802.3z Gigabit Ethernet

Features:

- Excellent attenuation performance.
- Rugged corrugated steel armor provides extra crush-resistance and rodent protection.
- Suitable for lashed aerial, duct, and underground conduit applications.
- Flame retardant LSZH jacket for enhanced fire performance or HDPE jacket for environmental protection and water permeation resistance.
- Suitable for external applications.

Technical Specifications:

DESCRIPTION		4-12 CORE	14-24 CORE	24-60 CORE	72 CORE	96 CORE	122 CORE	144 CORE
Outer Diameter	mm	10.0±0.4	10.5±0.4	12.0±0.4	12.6±0.4	14.1±0.4	15.6±0.4	17.1±0.4
Weight (LSZH)	Kg/Km	150/106	110/186	166/199	173/208	207/251	243/299	284/344
Max. Load (Installation)	N	1200	1200	1500	2900	2900	3300	3300
Max. Load (Installed)	N	600	600	600	1400	1500	1600	1600
Min Bend Radius (Installation)	mm	200	210	240	252	280	320	340
Min Bend Radius (Installed)	mm	100	110	120	126	140	160	170
Operating Temperature	°C	-20 - +60	-20 - +60	-40 - +70	-40 - +70	-40 - +70	-40 - +70	-40 - +70
Storage Temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60
Installation Temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60
Max. Crush Resistance	N/100mm	2000	2000	3000	3000	3000	3000	3000

Optical Characteristics:

Type	Max. Attenuation (dB/Km)				Min. overfill Launch Bandwidth MHz-Km		Min. Gigabit Ethernet Support Distance (meters)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	Gigabit	10 Gigabit	850nm
OM1 62.5/125µm	3.25	1.0			200	500	300	550	33
OM2 50/125µm	3.25	1.0			700	500	750	550	150
OM3 50/125µm	3.0	1.0			1500	500	1000	550	300
OM4 50/125µm	3.0	1.0			3500	500	1100	550	550
OS2 9/125 µm			0.40	0.30					

Ordering Information:

PART NUMBER	FIBER COUNT	Outer Diameter (mm)	Loose Tube Diameter (mm)	Cable Weight (Kg/Km)
OP-XX-A115002	2	10.0	5	98.0
OP-XX-A115004	4	10.0	5	98.0
OP-XX-A115006	6	10.0	5	98.0
OP-XX-A115012	12	10.0	5	98.0
OP-XX-A1150024	24	10.0	5	98.0
OP-XX-A1150048	48	11.5	6	120.0
OP-XX-A1150096	96	13.6	8	154.0
OP-XX-A11500144	144	17.5	12	275.0

Ordering Guide:

JACKET	FIBER TYPE (XX)	FIBER COUNT
LSZH	BM = 50/125 OM2 Multimode CM = 50/125 OM3 Multimode ES = 9/125 OS2 Singlemode	No. of Fiber

Colour Code:

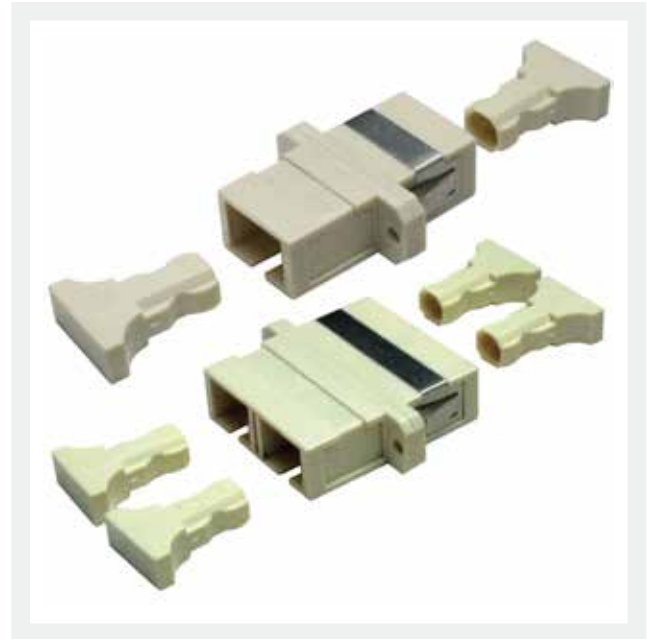
BL-BLUE	BR-BROWN	RE-RED	PU-PURPLE
OR-ORANGE	GY-GREY	BK-BLACK	PI-PINK
GR-GREEN	WH-WHITE	YE-YELLOW	AQ-AQUA

SC FIBER OPTIC ADAPTER

OPTIPLUS SC simplex/duplex adapters are high quality, plastic bodied flange mount adapter designed for SC connector applications. Simplex/Duplex adapters are available in zirconia ceramic or phosphor bronze alignment sleeves suitable for single mode and multimode cables. EMI Shielded SC adapters are also available for applications where EMI or RFI emissions are a concern.

Features:

- TIA/EIA-568-C.3
- TIA/EIA-604
- FOCIS-3



Design and Materials:

Adapter Material	Plastic-UL94V-0
Adapter Sleeve	Phosphor Bronze or Zirconia Ceramic
Strip	Steel
Operating Temperature	-20 - +60°C
Storage Temperature	-20 - +60°C

Ordering Information:

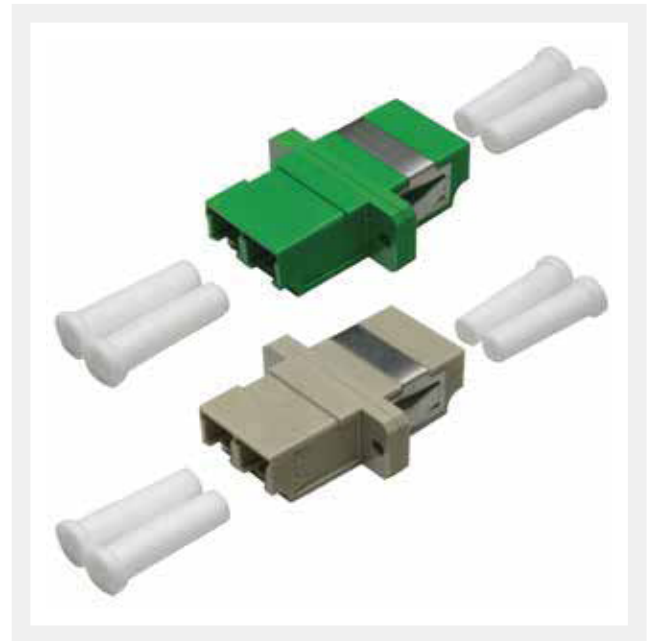
PART NUMBER	DESCRIPTION
OP-SC-SD15	SC SINGLEMODE DUPLEX ADAPTER
OP-SC-MD15	SC MULTIMODE DUPLEX ADAPTER

LC FIBER OPTIC ADAPTER

OPTIPLUS LC simplex/duplex adapters meet the growing demand for small form factor, high-density singlemode and multimode fiber optic connectivity. Optiplus ceramic sleeves LC adaptors are available in different colours with options for flange or flangeless body and metal.

Features:

- TIA/EIA-568-C.3
- TIA/EIA-604
- FOCIS-3



Design and Materials:

Adapter Material	Plastic-UL94V-0
Adapter Sleeve	Phosphor Bronze or Zirconia Ceramic
Operating Temperature	-40 - +85°C
Storage Temperature	-40 - +85°C
Storage Temperature	-20 - +60°C

Ordering Information:

PART NUMBER	DESCRIPTION
OP-LC-SD15 APC	LC SINGLEMODE DUPLEX ADAPTER
OP-LC-SD15 UPC	LC SINGLEMODE DUPLEX ADAPTER
OP-LC-MD15	LC MULTIMODE DUPLEX ADAPTER

FIBER OPTIC PIGTAIL

OPTIPLUS singlemode and multimode pigtails are available in SC/LC connectors. Typical 0.9mm outer diameter cables and premium grade are compliant to IEC, TIA/EIA and NTT and GIS specifications. Optiplus reliable performance SC and small formfactor LC connectors are suitable for industry specified installations.



Optical Characteristics (Fiber):

Type	Max. Attenuation (dB/Km)				Min. overfill Launch Bandwidth MHz-Km		Min. Gigabit Ethernet Support Distance (meters)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	Gigabit		10 Gigabit
OM1 62.5/125µm	3.25	1.0			200	500	300	550	33
OM2 50/125µm	3.25	1.0			700	500	750	550	150
OM3 50/125µm	3.0	1.0			1500	500	1000	550	300
OM4 50/125µm	3.0	1.0			3500	500	1100	550	550
OS1 9/125 µm			0.40	0.30					
OS2 9/125 µm			0.40	0.30					

Optical Characteristics (Connector):

	SC PC/UPC/APC	LC (MM/SM)
Insertion Loss (dB) Max.	≤0.3	≤0.3/0.2
Insertion Loss (dB) Typical.	≤0.2	≤0.2/0.1
Return Loss SM (dB)	20.0	20
Return Loss MM (dB)	≥45/≥50/≥60	≥45

Ordering Information:

PART NUMBER	DESCRIPTION	LENGTH
OP-SC-S16002	SC Singlemode Pigtail	2MTR
OP-SC-M16002	SC Multimode Pigtail	2MTR
OP-LC-S16002	LC Singlemode Pigtail	2MTR
OP-LC-M16002	LC Multimode Pigtail	2MTR

FIBER OPTIC PATCH PANEL

OPTIPLUS fiber optic sliding patch panels are compatible to use with equipment and cable assembly products. Rack mount fiber optic patch panels are used to terminate and distribute optical fiber cables. The standard 19" fiber optic patch panels are available in various kinds of fiber optic adapters pigtails such as SC, LC, ST, FC, etc.

Features:

- Sliding drawer
- Supplied with cable management & splice cassette
- Color : Black standard
- Material : Aluminum (1.5mm)
- Dimensions: (425mmW*298mmD*46mmH)



Design and Materials

Material	Cold Rolled Steel
Mounting Type	Rack
Color	Black
Operating Temperature	-40°C to +60°C
Material Coating	Electrostatic Powder Coating

Ordering Information:

PART NUMBER	DESCRIPTION	NO OF PORTS
SC FIBER PATCH PANEL		
OP-SC-P12006	SC fiber patch panel	6
OP-SC-P120012	SC fiber patch panel	12
OP-SC-P120024	SC fiber patch panel	24
OP-SC-P120036	SC fiber patch panel	36
OP-SC-P120048	SC fiber patch panel	48
LC FIBER PATCH PANEL		
OP-LC-P12006	LC fiber patch panel	6
OP-LC-P120012	LC fiber patch panel	12
OP-LC-P120024	LC fiber patch panel	24
OP-LC-P120036	LC fiber patch panel	36
OP-LC-P120048	LC fiber patch panel	48

FIBER OPTIC PATCH CORD

OPTIPLUS provides simplex and duplex fiber patch cables which alleviates cable congestion problems. Optiplus patch cords are ideal for high density applications with a variety of connector types such as LC, SC, ST, and FC etc in singlemode and multimode. They are compliant to IEEE standards for gigabit networks. Simplex fiber patch cables feature one fiber and one connector on each end. A Duplex fiber patch cable has two fibers and two connectors on both ends. The standard patch cords manufactured on 2.0mm or 2.8mm (nominal dia.).

Features:

- Conforms to IEC, EIA-TIA or Telecordia performance requirements
- Available in different fiber types
- Available with different connector types
- Available in standard and custom lengths
- Material compliant to 2011/65/EU



Technical Specifications:

Characteristics	Units	Simplex	Duplex
Cable Material		LSZH/PVC	LSZH/PVC
Strength Member		Aramid	Aramid
Crush	N	1000	1000
Operating Temperature	°C	-20 to +60	-20 to +60
Secondary Buffer Diameter (2.0mm and 2.8mm)	µm	900±50	900±50
Secondary Buffer Diameter (1.6mm)	µm	600±50	600±50
Minimum Bending Radius	µm	10D(Installed) 20D(Loaded)	10D(Installed) 20D(Loaded)

Optical Characteristics (Fiber):

Type	Max. Attenuation (dB/Km)				Min. overfill Launch Bandwidth MHz-Km		Min. Gigabit Ethernet Support Distance (meters)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	Gigabit		10 Gigabit
OM1 62.5/125µm	3.25	1.0			200	500	300	550	33
OM2 50/125µm	3.25	1.0			700	500	750	550	150
OM3 50/125µm	3.0	1.0			1500	500	1000	550	300
OM4 50/125µm	3.0	1.0			3500	500	1100	550	550
OS1 9/125 µm			0.40	0.30					
OS2 9/125 µm			0.40	0.30					

Ordering Information:

PART NUMBER	DESCRIPTION	LENGTH
SC-SC SINGLEMODE		
OP-SCSC-S14002	SC-SC Singlemode Patch Cord	2MTR
OP-SCSC-S14003	SC-SC Singlemode Patch Cord	3 MTR
OP-SCSC-S14005	SC-SC Singlemode Patch Cord	5 MTR
OP-SCSC-S140010	SC-SC Singlemode Patch Cord	10 MTR
SC-SC MULTIMODE		
OP-SCSC-M14002	SC-SC Multimode Patch Cord	2MTR
OP-SCSC-M14003	SC-SC Multimode Patch Cord	3 MTR
OP-SCSC-M14005	SC-SC Multimode Patch Cord	5 MTR
OP-SCSC-M140010	SC-SC Multimode Patch Cord	10 MTR

SC-LC SINGLEMODE		
OP-SCLC-S14002	SC-LC Singlemode Patch Cord	2MTR
OP-SCLC-S14003	SC-LC Singlemode Patch Cord	3 MTR
OP-SCLC-S14005	SC-LC Singlemode Patch Cord	5 MTR
OP-SCLC-S140010	SC-LC Singlemode Patch Cord	10 MTR
SC-LC MULTIMODE		
OP-SCLC-M14002	SC-LC Multimode Patch Cord	2MTR
OP-SCLC-M14003	SC-LC Multimode Patch Cord	3 MTR
OP-SCLC-M14005	SC-LC Multimode Patch Cord	5 MTR
OP-SCLC-M140010	SC-LC Multimode Patch Cord	10 MTR

LC-LC SINGLEMODE		
OP-LCLC-S14002	LC-LC Singlemode Patch Cord	2MTR
OP-LCLC-S14003	LC-LC Singlemode Patch Cord	3 MTR
OP-LCLC-S14005	LC-LC Singlemode Patch Cord	5 MTR
OP-LCSLC-S140010	LC-LC Singlemode Patch Cord	10 MTR
LC-LC MULTIMODE		
OP-LCLC-M14002	LC-LC Multimode Patch Cord	2MTR
OP-LCLC-M14003	LC-LC Multimode Patch Cord	3 MTR
OP-LCLC-M14005	LC-LC Multimode Patch Cord	5 MTR
OP-LCLC-M140010	LC-LC Multimode Patch Cord	10 MTR



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