D-Link®
Building Networks for People

D-Link
Structured Cabling Solutions

Fiber Product Catalog 2019

Structured cabling is building or campus tele-communications cabling infrastructure that consists of a number of standardized smaller elements (hence structured) called subsystems.

INDEX

Passion to innovate

About D-Link Corporation

After more than 30 years, D-Link is still focused on what we have always done best; developing state-of-the-art, innovative network solutions to help our customers connect. And today, D-Link continues to expand its range of products, further helping consumers and businesses around the world "Connect to More"; Our broad range of technology solutions enables customers to connect with more partners, more customers, and more family and friends.

D-Link was founded in Taipei, Taiwan, in March 1986 as Datex Systems, Inc. Their mission then, as now, was to provide high-quality performing, innovative networking solutions for consumers and businesses of all sizes. From that day to this, D-Link has been at the vanguard of Networking, Wi-Fi, and Surveillance technology, developing a broad portfolio of award-winning, cutting edge products and services to help consumers and businesses in more than 100 countries to connect. Today, D-Link has 171 local sales offices in 66 countries and regional headquarters in Fountain Valley, USA, London, United Kingdom, and Singapore. And whilst the company is fiercely proud of it roots in Taiwan, D-Link is still able to provide global channels with a truly local touch.

D-Link serves a broad range of customers across a range of sectors and industries including Retail, Hospitality, Government, Education, Healthcare, and Service Providers and has provided solutions to some of the world's most recognizable brands including Amazon, Verizon, Deutsche Telecom, and TalkTalk. Partnerships and alliances with major global technology players allow D-Link to provide customers with cutting edge, dependable solutions. Examples of such collaborations include chipset solutions providers Broadcom and Qualcomm, online media service Pandora, IT industry heavyweights Microsoft and HP, and telecom solutions providers Ericsson and Nokia Siemens Networks.

D-Link has remained at the forefront of networking technology as the sector has evolved, consistently being recognized for its outstanding product design and innovation by some of the world's most prestigious industry awards. D-Link's cutting-edge product design has received numerous consumer, business, and corporate awards for the quality of its design. These have included iF, Red Dot, and Good Design, and also product innovation awards from major consumer review names including PC Mag, Tom's Hardware, SmallNetBuilder, CNET, and CES Innovation.

Across the world, we are helping millions of people in their daily lives. Every day, in some 100 countries, we power hospital networks so that life-saving operations can be carried out. We connect vast knowledge centers in the heart of universities and research institutes, enabling critical scientific breakthroughs. We help grow small family businesses through our Wi-Fi networking and camera surveillance products. And in millions of homes around the world, we help families enjoy rich, fast digital lifestyles, while maintaining peace of mind. D-Link has grown from a group of seven friends in 1986 to more than 2,000 employees around the world. More than 30 years later, D-Link is still pushing back the boundaries of networking technology.

Innovation
Our Passion to Innovate has produced many worlds first technologies. We are driven by entrepreneurship and vision.

Execution
We do it with integrity, efficiency and teamwork globally. Each one of us puts our heart and soul into our work.

Heritage
Every day, we keep building on our heritage. We make it stronger and we pass this heritage on every year.

This is the way we've built a networking giant from the ground up.

Structured Cabling

Structured cabling is building or campus tele-communications cabling infrastructure that consists of a number of standardized smaller elements (hence structured) called subsystems.

Structured cabling falls into six subsystems:
 • Entrance Facilities are where the building interfaces with the outside world.
 • Equipment Rooms host equipment which serve the users inside the building.
 • Telecommunications Rooms house telecommunication equipment which connect the backbone and the horizontal cabling subsystems.
 • Backbone Cabling connect between the entrance facilities, equipment rooms and telecommunications rooms.
 • Horizontal Cabling connect telecommunications rooms to individual outlets on the floor.
 • Work-Area Components connect end-user equipment to outlets of the horizontal cabling system. Structured cabling design and installation is governed by a set of standards that specify wiring data centers, offices, and apartment buildings for data or voice communications, using category 5 (CAT 5E) or category 6 cable (CAT 6) and modular sockets. These standards define how to lay the cabling in a star formation, such that all outlets terminate at a central patch panel (which is normally 19 inch rack-mounted), from where it can be

determined exactly how these connections will be used. Each outlet can be 'patched' into a data network switch (normally also rack mounted alongside), or patched into a 'telecoms patch panel' which forms a bridge into a private branch exchange (PBX) telephone system, thus making the connection a voice port.

Lines patched as data ports into a network switch require simple straight-through patch cables at the other end to connect a computer. Voice patches to PBXs in most countries require an adapter at the remote end to translate the configuration on 8P8C modular connectors into the local standard telephone wall socket. No adapter is needed in the U.S. as the 6P6C plug used with RJ 11 telephone connections is physically compatible with the larger 8P8C ("13145") socket and the wiring of the 8P8C is compatible with RJ11. In the UK, an adapter must be present at the remote end as the 6-pin BT socket is physically incompatible with 8P8C.

It is common to color code patch panel cables to identify the type of connection, though structured cabling standards do not require it, except in the demarcation wall field.

Cabling standards demand that all eight connectors in CatS/5e/6 cable are connected, resisting the temptation to 'double-up' or use one cable for both voice and data.

Structured Cabling Standards

TIA/EIA-568-A : Commercial Building Cabling

TIA/EIA-568-A-3 : Bundled Cables

TIA/EIA-568-A-5 : Cat 5E Cabling

TIA/EIA-568-B TIA/EIA-568-B.1 : Cat 6 Cabling

TIA/EIA-568-B.2-1 : Cat 6 Cabling

TIA/EIA-568-B.3 : Optical Fiber Cabling

TIA/EIA-569A : Pathways & Spaces

TIA/EIA-606 : Labeling And Recording
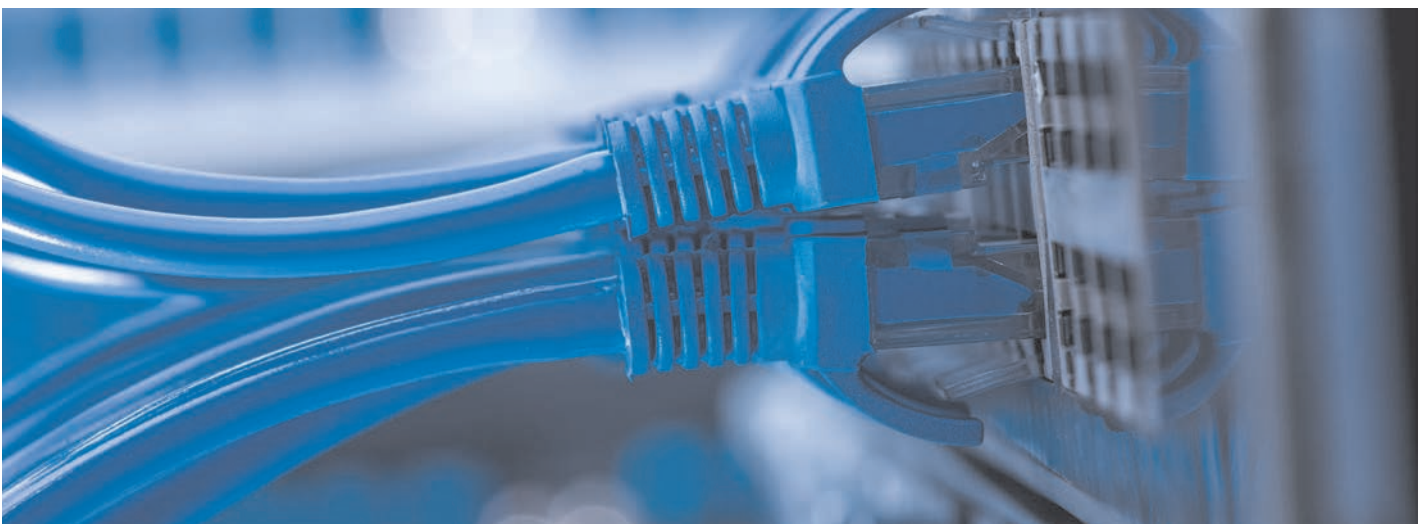
TIA/EIA-607 : Grounding & Bonding

TSB-67 : Field Testing

TSB-72 : Centralized Fiber

TSB-75 : Open Office Wiring

TSB-95 : Additional Guidelines for Cat5E Cabling

TIA/EIA 568—C : Commercial buildings, and Between buildings in campus environments

Fiber Solution
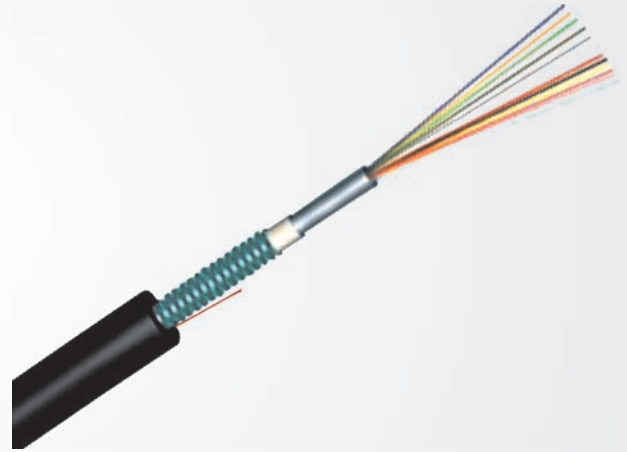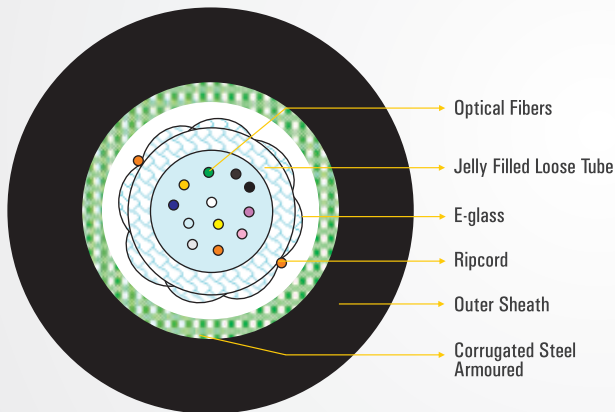
Sliding LIU

Fiber Patch Cords

Fiber Optic Pigtails

Fiber Optic Adapters

Fiber Optic Connectors

OPTIC FIBER CABLE - ARMOURED

Optical Fibers
Jelly Filled Loose Tube
E-glass
Ripcord
Outer Sheath
Corrugated Steel Armoured

DESCRIPTION

• Central Loose tube with jelly compound.
• Glass yarns in between Steel tape & loose tube.
• Corrugated Steel tape armoured.

APPLICATIONS

• **Suitable for Indoor/ Outdoor Local Area network System.**
• **Excellent water proof layer & good moisture resistance.**
• **Excellent crush resistant performance, light weight, Compact Structure**

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature   : - 20°C to+ 60°C
Storage Temperature   : - 40°C to+ 60°C
Jacket Material   : LSZH / HDPE

STANDARDS

• ISO 11801
• IEC 60793-1/60794-1-2
• ITU-T REC G.652D
• Telcordia GR-20-core

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Fiber Count	Outer Diameter (mm)	Thickness of Jacket (mm)	Nominal Cable Weight (kg/km) HDPE/ LSZH	Pulling Tension IEC 60794-1-2—E1		Crush Load IEC 60794-1-2—E3 (N/100mm)	Bend Radius (mm) IEC 60794-1-2-E11 IEC 60794-1-2-E6	
				Short Term (N)	Long Term (N)		Short Term (N)	Long Term (N)
4	9.4± 0.3	1.5 ± 0.2	81/102	2000	1000	3000	10D	20D
6	9.6 ± 0.3	1.5 ± 0.2	84/105	2000	1000	3000	10D	20D
12	10.0 ± 0.3	1.5 ± 0.2	88/111	2000	1000	3000	10D	20D
24*	10.4 ± 0.3	1.5 ± 0.2	94/117	2000	1000	3000	10D	20D

* 24C- Single loose tube contains two Binder bundle of 12F in Blue & Orange color bundle

COLOR CODE

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

OPTIC FIBER CABLE - ARMOURED

OPTICAL FIBER CHARACTERISTICS

Fiber Type	9/ 125um (OS2)		50/ 125um (OM2)		50/ 125um (OM3)		50/125um (OM4)	
Operational Wavelength	1310nm	1550nm	850nm	1300nm	850nm	1300nm	850nm	1300nm
Maximum Attenuation (dblkm)	0.35	0.21	3.5	1.5	3.2	1.5	3.0	1.5
Minimum Bandwidth (Mhz-km)	—	—	500	550	1500/2000*	500	3500	500

* Effective Modal Bandwidth at 850nm for OM3

CHARACTERISTICS (CABLED) SINGLE-MODE - MATCHED-CLADDED OPTICAL FIBERS ACCORDING TO ITU

Fiber—Type & Refractive Index	Mode-Field/ Cladding Diameter (um)	Wavelength (nm)	Dispersion (ps/(nm-km)	PMD (pslkm)	Cable Cut-off Wavelength (nm)
9/125/G.652D	9.2 ± 0.4	1310	= 3.5	= 0.2	= 1260
1.4670/1.4675	125 ± 0.7	1550	= 18		

CHARACTERISTICS (CABLED) MULTI-MODE GRADED-INDEX OPTICAL FIBERS ACCORDING TO IEC 60793

Fiber - Type	Mode-Field/ Cladding Diameter (um)	Wavelength (nm)	Numerical Aperture (urn)	Refractive Index
50/125 OM2	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015	1.483 1.478
50/125 OM3	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015	1.483 1.478
50/125 OM4	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015	1.483 1.478

CABLE DRUM & PALLET SIZES

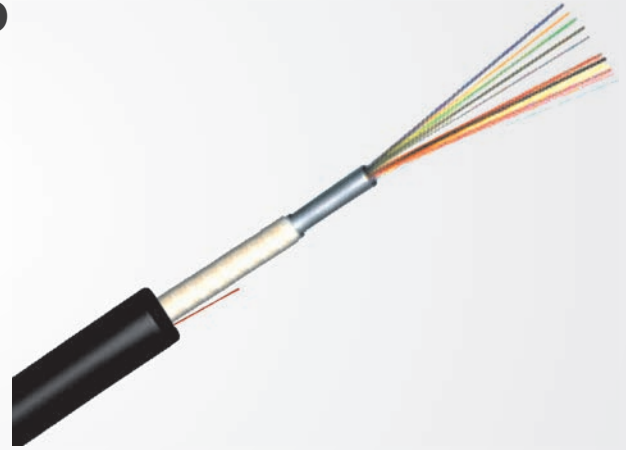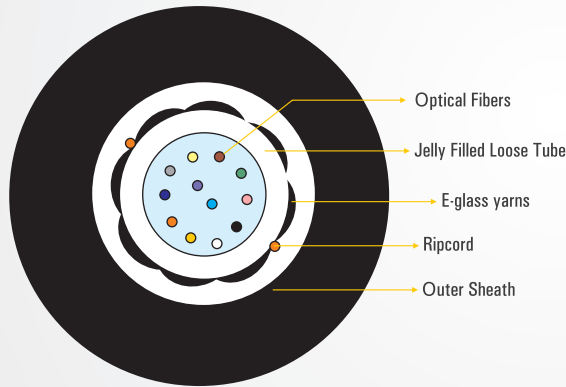| Cable Size	Standard Length
4F to 24F	2(4)kms ± 10%

ORDERING INFORMATION:

HDPE- High Density Poly Ethylene

	Single Model (OS2)	Multimode 50 um (OM2)	Multimode 50 um (OM3)	Multimode 50 um (OM4)
4 Fibers	NCB-FS10O-AUHD-04	NCB-FM50O-AUHD-04	NCB-FM51O-AUHD-04	NCB-FM52O-AUHD-04
6 Fibers	NCB-FS10O-AUHD-06	NCB-FM50O-AUHD-06	NCB-FM51O-AUHD-06	NCB-FM52O-AUHD-06
12 Fibers	NCB-FS10O-AUHD-12	NCB-FM50O-AUHD-12	NCB-FM51O-AUHD-12	NCB-FM52O-AUHD-12
24 Fibers	NCB-FS10O-AUHD-24	NCB-FM50O-AUHD-24	NCB-FM51O-AUHD-24	NCB-FM52O-AUHD-24

LSZH- Low Smoke Zero Halogen

4 Fibers	NCB-FS10O-AULS-04	NCB-FM50O-AULS-04	NCB-FM51O-AULS-04	NCB-FM52O-AULS-04
6 Fibers	NCB-FS10O-AULS-06	NCB-FM50O-AULS-06	NCB-FM51O-AULS-06	NCB-FM52O-AULS-06
12 Fibers	NCB-FS10O-AULS-12	NCB-FM50O-AULS-12	NCB-FM51O-AULS-12	NCB-FM52O-AULS-12
24 Fibers	NCB-FS10O-AULS-24	NCB-FM50O-AULS-24	NCB-FM51O-AULS-24	NCB-FM52O-AULS-24

OPTIC FIBER CABLE - UNARMOURED

Optical Fibers
Jelly Filled Loose Tube
E-glass yarns
Ripcord
Outer Sheath

DESCRIPTION

- Central Loose tube with jelly compound.
- E - glass strength members.
- Sequential Meter Marking.

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature   : - 20°C to + 60°C
Storage Temperature   : - 40°C to + 60°C
Jacket Material   : LSZH/ HDPE

Fiber Count	HDPE/ LSZH Outer Diameter (mm)	HDPE/ LSZH Thickness of Jacket (mm)	HDPE/ LSZH Nominal Cable Weight (kg/km)	Pulling Tension IEC 60794 -1-2 - E1		Crush Load IEC 60794 -1-2 - E3 (N/100mm)		Bend Radius (mm) IEC 60794-1-2-E11 IEC 60794-1-2-E6	
				Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)
4	7.8 ± 0.3(6.8 ± 0.3)/ 6.2 ± 0.3	1.6(1.8) ± 0.2/ 1.4 ± 0.2	34/ 45	1500	600	1000	300	20D	10D
6	8.0 ± 0.3(6.8 ± 0.3)/ 6.2 ± 0.3	1.6(1.8) ± 0.2/ 1.4 ± 0.2	34/ 45	1500	600	1000	300	20D	10D
12	8.4 ± 0.3(6.8 ± 0.3)/ 6.2 ± 0.3	1.6(1.8) ± 0.2/ 1.4 ± 0.2	34/ 45	1500	600	1000	300	20D	10D
24**	8.8 ± 0.3(7.3 ± 0.3)/ 6.7 ± 0.3	1.6(1.8) ± 0.2/ 1.4 ± 0.2	34/ 45	1500	600	1000	300	20D	10D

**24C - Core contains two bundle of 12F in Blue & Orange color bundle

OPTICAL FIBER CHARACTERISTICS

Fiber Type	9/125um		50/125um (OM2)		50/125um (OM3)		50/125um (OM4)	
Operational Wavelength	1310nm	1550nm	850nm	1300nm	850nm	1300nm	850nm	1300nm
Maximum Attenuation (db/km)	0.35	0.21	3.5	1.5	3.2	1.5	3.0	1.5
Minimum Bandwidth (Mhz—km)	—	—	500	550	1500/ 2000*	500	3500	500

* Effective Modal Bandwidth at 850nm for OM3

COLOR CODE

BL-BLUE   OR-ORANGE   GR-GREEN   BR-BROWN   GY-GREY   WH-WHITE

RD-RED   BK-BLACK   YE-YELLOW   PU-PURPLE   PI-PINK   AQ-AQUA

OPTIC FIBER CABLE - UNARMOURED

CHARACTERISTICS (CABLED) SINGLE-MODE - MATCHED-CLADDED OPTICAL FIBERS ACCORDING TO ITU

Fiber-Type & Refractive Index	Mode-Field/ Cladding Diameter (um)	Wavelength (nm)	Dispersion (ps/(nm-km)	PMD (pslkm)	Cable Cut-off Wavelength (nm)
9/125/ G.652D 1.4670/1.4675	9.2 ± 0.4 125 ± 0.7	1310 1550	= 3.5 = 18	= 0.2	= 1260

CHARACTERISTICS (CABLED) MULTI-MODE GRADED-INDEX OPTICAL FIBERS ACCORDING TO IEC 60793

Fiber—Type & Refractive Index	Mode-Field/ Cladding Diameter (um)	Wavelength (nm)	Numerical Aperture (urn)	Refractive Index
Om1 62.5/125	62.5 ± 2.5	850	0.275 ± 0.015	1.497
OM2 50/125	125 ± 1 50 ± 2.5	1300 850	0.200 ± 0.015	1.493 1.483
OM3 50/125	125 ± 1 50 ± 2.5	1300 850	0.200 ± 0.015	1.478 1.483
OM4 50/125	125 ± 1 50 ± 2.5	1300 850	0.200 ± 0.015	1.478 1.483

CABLE DRUM & PALLET SIZES

Cable Size	Standard Length
4F to 12F	4kms ± 10%
24F	2kms ± 10%

STANDARDS

- ISO 11801
- IEC 60793-1/60794-1-2
- ITU-T REC G.652D
- Telcordia GR-20-core

ORDERING INFORMATION:

HDPE- High Density Poly Ethylene

	Single Mode(OS2)	Multimode 50 um (OM2)	Multimode 50 urn (OM3)	Multimode 50 urn (OM4)
4 Fibers	NCB-FS10X-UUHD-04	NCB-FM50X-UUHD-04	NCB-FM51X-UUHD-04	NCB-FM52X-UUHD-04
6 Fibers	NCB-FS10X-UUHD-06	NCB-FM50X-UUHD-06	NCB-FM51X-UUHD-06	NCB-FM52X-UUHD-06
12 Fibers	NCB-FS10X-UUHD-12	NCB-FM50X-UUHD-12	NCB-FM51X-UUHD-12	NCB-FM52X-UUHD-12
24 Fibers	NCB-FS10X-UUHD-24	NCB-FM50X-UUHD-24	NCB-FM51X-UUHD-24	NCB-FM52X-UUHD-24

LSZH- Low Smoke Zero Halogen

4 Fibers	NCB-FS10X-UULS-04	NCB-FM50X-UULS-04	NCB-FM51X-UULS-04	NCB-FM52X-UULS-04
6 Fibers	NCB-FS10X-UULS-06	NCB-FM50X-UULS-06	NCB-FM51X-UULS-06	NCB-FM52X-UULS-06
12 Fibers	NCB-FS10X-UULS-12	NCB-FM50X-UULS-12	NCB-FM51X-UULS-12	NCB-FM52X-UULS-12
24 Fibers	NCB-FS10X-UULS-24	NCB-FM50X-UULS-24	NCB-FM51X-UULS-24	NCB-FM52X-UULS-24

OPTIC FIBER CABLE — TIGHT BUFFERED

Optical Fiber
Tight Buffer
Aramid Yarns
Ripcord
Outer Sheath
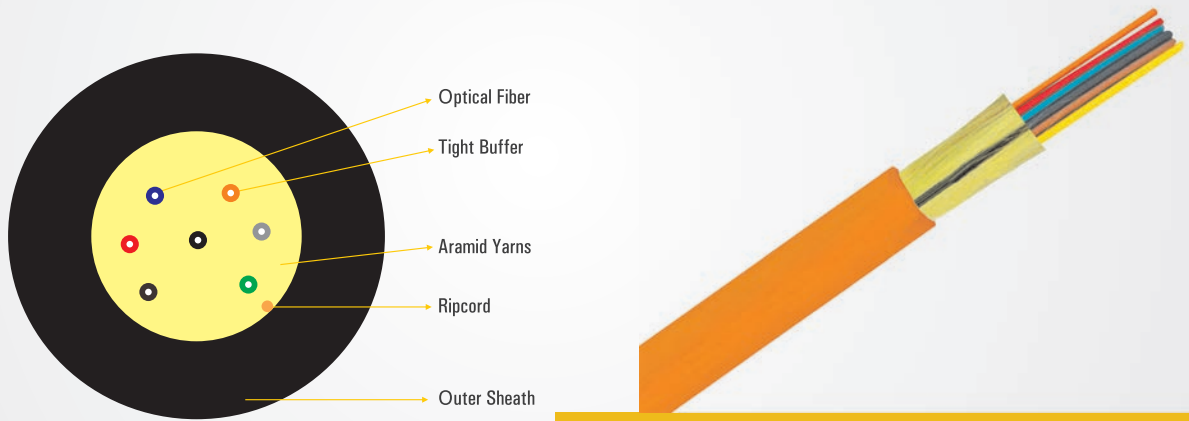
DESCRIPTION
- Tight Buffered fiber without jelly compound
- Aramid yarn strength members
- Round construction and termination can be made standard

APPLICATIONS
- Suitable for aerial, pipeline, bracket lying
- Suitable for indoor and outdoor cable
- Light weight, all dielectric self supporting

MECHANICAL, PHYSICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature	: -10° to + 60°C
Storage Temperature	: -20° to + 85°C
Tight Buffer Material	: PVC / LSZH
Jacket Material	: HDPE / LSZH

STANDARDS
- ISO 11801
- IEC 60793-1/60794-1-2
- ITU-T REC G.652D
- Telcordia GR-20-core

Fiber Count	Outer Diameter (mm)	Nominal Thickness of Jacket (mm)	Nominal Cable Weight (kg/km)	Pulling Tension IEC 60794-1-2—E1		Crush Load IEC 60794-1-2—E3 (N/100mm)		Bend Radius (mm) IEC 60794.1-2-E11 IEC 60794-1-2-E6	
				Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)
4	4.5(5.4)± 0.3	1.2	29	600(640)	200(640)	1000(1500)	300(600)	20D	10D
6	4.8 (6.0) ± 0.3	1.2	35	600(640)	200(640)	1000(1500)	300(600)	20D	10D
12	6.5 (7.5) ± 0.3	1.3	52	1000(1100)	350(1100)	1000(1500)	300(600)	20D	10D

GENERAL CHARACTERISTICS

Flame retardancy according to
- IEC 60332-3-22 (EN 50266-2-2) — Pass
- IEC 60331-25 (EN 50200) — Pass
- IEC 61034 (EN 50268-2) — Pass
- IEC 60332-1 (EN 50265-2-1) — Pass

Halogen-free according to IEC 60754-2 (EN 50267-2-2) Corrosively
pH = 3.5 - uS/ cm = 100

COLOR CODE

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

OPTICAL FIBER CHARACTERISTICS

Fiber Type	9/125um (OS2)		50/ 125um (OM2)		50/ 125um (OM3)		50/ 125um (OM4)	
Operational Wavelength	1310 nm	1550 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
Maximum Attenuation (dblkm)	0.40 max	0.300 max	3.5 max	1.5 max	3.2 max	1.5 max	3.0 max	1.5 max
Minimum Bandwidth (Mhz—km)	—	—	500	550	2000	500	3500	500

OPTIC FIBER CABLE — TIGHT BUFFERED

CHARACTERISTICS (CABLED) SINGLE-MODE - MATCHED-CLADDED OPTICAL FIBERS ACCORDING TO ITU

Fiber—Type & Refractive Index	Mode-Field/ Cladding Diameter (um)	Wavelength (nm)	Dispersion (ps/(nm-km)	PMD (pslkm)	Cable Cut-off Wavelength (nm)
9/125 G.652D	9.2 ± 0.4 125 ± 0.7	1310 1550	= 3.5 = 18	= 0.2	= 1260

CHARACTERISTICS (CABLED) MULTI-MODE GRADED-INDEX OPTICAL FIBERS ACCORDING TO IEC 60793

Fiber—Type & Refractive Index	Mode-Field/ Cladding Diameter (um)	Wavelength (nm)	Numerical Aperture (urn)
50/125 OM2	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015
50/125 OM3	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015
50/125 OM4	50 ± 2.5 125 ± 1	850 1300	0.200 ± 0.015

ORDERING INFORMATION:

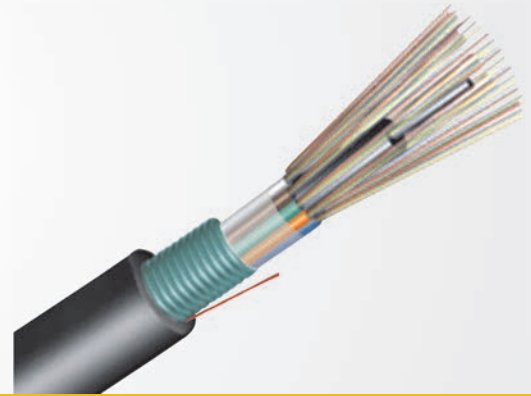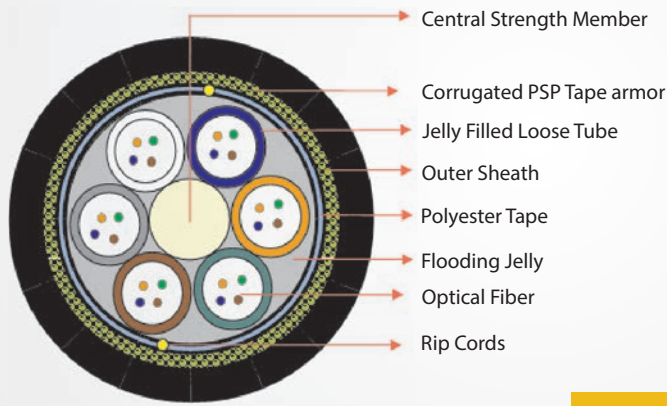**HDPE- High Density Poly Ethylene**

	Single Mode (OS2)	Multimode 50 um (OM2)	Multimode 50 um (OM3)	Multimode 50 um (OM4)
4 Fibers	NCB-FS10I-UTHD-04	NCB-FM50I-UTHD-04	NCB-FM51I-UTHD-04	NCB-FM52I-UTHD-04
6 Fibers	NCB-FS10I-UTHD-06	NCB-FM50I-UTHD-06	NCB-FM51I-UTHD-06	NCB-FM52I-UTHD-06
12 Fibers	NCB-FS10I-UTHD-12	NCB-FM50I-UTHD-12	NCB-FM51I-UTHD-12	NCB-FM52I-UTHD-12

LSZH- Low Smoke Zero Halogen

	Single Mode (OS2)	Multimode 50 um (OM2)	Multimode 50 um (OM3)	Multimode 50 um (OM4)
4 Fibers	NCB-FS10I-UTLS-04	NCB-FM50I-UTLS-04	NCB-FM51I-UTLS-04	NCB-FM52I-UTLS-04
6 Fibers	NCB-FS10I-UTLS-06	NCB-FM50I-UTLS-06	NCB-FM51I-UTLS-06	NCB-FM52I-UTLS-06
12 Fibers	NCB-FS10I-UTLS-12	NCB-FM50I-UTLS-12	NCB-FM51I-UTLS-12	NCB-FM52I-UTLS-12

SINGLE SHEATH SM MT FIBER

Central Strength Member
Corrugated PSP Tape armor
Jelly Filled Loose Tube
Outer Sheath
Polyester Tape
Flooding Jelly
Optical Fiber
Rip Cords

DESCRIPTION

• Multi -loose tube with jelly compound.
• Outer Sheath HDPE/ LSZH - Black Colour

APPLICATIONS

• Suitable for outdoor (duct) local area network systems.
• Excellent crush resistant performance, light weight compact structure

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature   : -20° to + 70°C
Storage Temperature   : -40° to + 60°C
Jacket Material   : HDPE / LSZH

Fiber Count	Outer Diameter (mm)	Thickness of Jacket - Outer (mm)	Nominal Cable Weight (kg/km)	Pulling Tension		Crush Load N/100 mm)	Bend Radius (mm)	
				Short Term (N)	Long Term (N)		Short Term (N)	Long Term (N)
4	9.6	1.5	100	1700	680	2000	20D	10D
6	9.6	1.5	100	1700	680	2000	20D	10D
12	9.6	1.5	100	1700	680	2000	20D	10D
24	9.6	1.5	100	1700	680	2000	20D	10D
48	10.2	1.5	120	1700	680	2000	20D	10D
72	10.2	1.5	130	1700	680	2000	20D	10D
96	11.6	1.5	165	1700	680	2000	20D	10D

PHYSICAL PROPERTIES

No. of Fibers	4F	6F	12F	24F	48F	72F	96F
Strength Member-FRP	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	2.0 ± 0.1	2.2 ± 0.1	3.5 ± 0.1
Loose Tube Diameter-mm	1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1	2.0 ± 0.1	2.1 ± 0.1	2.1 ± 0.1
Number of Loose Tube	2	3	3	6	6	6	8
Number of Fiber in Loose Tube	2	2	4	4	8	12	12
Number of Filler	4	3	3	0	0	0	0

SINGLE SHEATH SM MT FIBER

COLOR CODE

BL-Blue	OR-Orange	GR-Green	BR-Brown
SL-Slate	WH-White	RD-Red	BK-Black

MULTI LOOSE TUBE COLOR SEQUENCE:

BL-Blue	OR-Orange	GR-Green	BR-Brown
SL-Slate	WH-White		

OPTICAL FIBER CHARACTERISTICS:

Fiber Type	9/125 um (OS1)	
Operational Wavelength	1310 nm	1550 nm
Max Attenuation (db / km)	<=0.38	<=0.25

CHARACTERISTICS (CABLED) SINGLE-MODE - MATCHED-CLADDED OPTICAL FIBERS ACCORDING TO ITU

Fiber - type & Refractive Index	Mode-filed/ Cladding Diameter (um)	Wavelength (nm)	Dispersion (ps/(nm-km)	PMD (ps/km)	Cable Cut-off wavelength (nm)
9/125 / G.652D	9.2 ± 0.4	1310	<=3.5	<=0.2	<=1260
1.4674/1.4679	125 ± 0.7	1550	<=18		

CABLE SIZE & ORDERING INFORMATION:

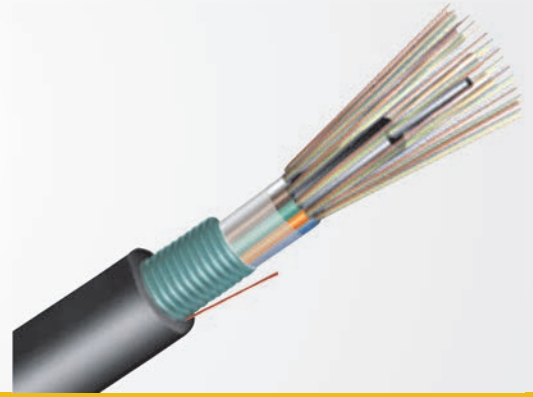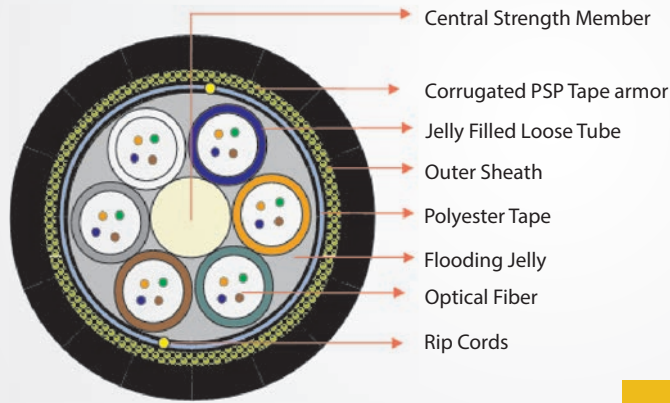| Cable Size	Standard Length
4/6/12/24/48/72/96 Fibers	2 km / 4 Km ± 10%

STANDARDS

- ISO 11801
- I EC 60793-1/60794-1-2/60794-3-10
- ITU-T-REC G.652D

ORDERING INFORMATION:

Part Code	Description
NCB-FS10O-ALHD-04	O.F.Cable 4F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALHD-06	O.F.Cable 6F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALHD-12	O.F.Cable 12F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALHD-24	O.F.Cable 24F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALHD-48	O.F.Cable 48F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALHD-72	O.F.Cable 72F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALHD-96	O.F.Cable 96F Outdoor Multitube SM Single Sheath Jacket
NCB-FS10O-ALLS-04	O.F.Cable 4F Outdoor Multitube SM Single Sheath LSZH Cable
NCB-FS10O-ALLS-06	O.F.Cable 6F Outdoor Multitube SM Single Sheath LSZH Cable
NCB-FS10O-ALLS-12	O.F.Cable 12F Outdoor Multitube SM Single Sheath LSZH Cable
NCB-FS10O-ALLS-24	O.F.Cable 24F Outdoor Multitube SM Single Sheath LSZH Cable
NCB-FS10O-ALLS-48	O.F.Cable 48F Outdoor Multitube SM Single Sheath LSZH Cable
NCB-FS10O-ALLS-72	O.F.Cable 72F Outdoor Multitube SM Single Sheath LSZH Cable
NCB-FS10O-ALLS-96	O.F.Cable 96F Outdoor Multitube SM Single Sheath LSZH Cable

SINGLE SHEATH MM MT FIBER

- Central Strength Member
- Corrugated PSP Tape armor
- Jelly Filled Loose Tube
- Outer Sheath
- Polyester Tape
- Flooding Jelly
- Optical Fiber
- Rip Cords

DESCRIPTION

- Multi -loose tube with jelly compound.
- Outer Sheath HDPE/ LSZH - Black Colour

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature   : -20° to + 70°C
Storage Temperature   : -40° to + 60°C
Jacket Material   : HDPE/ LSZH

APPLICATIONS

- **Suitable for outdoor local area network systems.**
- **Excellent crush resistant performance, light weight compact structure**

Fiber Count	Outer Diameter (mm)	Thickness of Jacket - Outer (mm)	Nominal Cable Weight(HDPE) (kg/km)	Pulling Tension		Crush Load N/100 mm)	Bend Radius (mm)	
				Short Term (N)	Long Term (N)		Short Term (N)	Long Term (N)
4	9.6	1.5	88/111	1500	600	1000	20D	10D
6	9.6	1.5	88/111	1500	600	1000	20D	10D
12	9.6	1.5	88/111	1500	600	1000	20D	10D
24	9.6	1.5	87/110	1500	600	1000	20D	10D
48	10.2	1.5	97/122	1500	600	1000	20D	10D
72	10.2	1.5	95/120	1500	600	1000	20D	10D
96	11.6	1.5	122/151	1500	600	1000	20D	10D
144	14.2		178/215	1500	600	1000		

PHYSICAL PROPERTIES

No. of Fibers	4F	6F	12F	24F	48F	72F	96F
Strength Member-FRP	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	2.0 ± 0.1	2.0 ± 0.1	2.5 ± 0.1
Loose Tube Diameter-mm	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	2.0 ± 0.1	2.0 ± 0.1	2.0 ± 0.1
Number of Loose Tube	2	3	3	4	4	6	8
Number of Fiber in Loose Tube	2	2	4	6	12	12	12
Number of Filler	4	3	3	2	2	0	0

SINGLE SHEATH MM MT FIBER

COLOR CODE

BL-Blue	OR-Orange	GR-Green	BR-Brown
SL-Slate	WH-White	RD-Red	BK-Black

MULTI LOOSE TUBE COLOR SEQUENCE:

BL-Blue	OR-Orange	GR-Green	BR-Brown
SL-Slate	WH-White		

CHARACTERISTICS (CABLED) MULTI-MODE
GRADED-INDEX OPTICAL FIBERS ACCORDING TO IEC 60793

Fiber CHARACTERISTICS	Unit			
Fiber - type		OM2	Om3	OM4
Attenuation	db/km			
@ 850 nm		<= 3.5	<= 3.2	<= 3.2
@ 1300 nm		<= 1.5	<= 1.2	<= 1.2
Core Diameter	um	50 ± 3	50 ± 3	50 ± 3
Core non circularity	%	= 3	= 5	= 5
Core Clad concentricity error	um	= 2	= 2	= 2
Clad diameter	um	125 ± 2	125 ± 2	125 ± 2
Coating diameter	um	245 ± 10	245 ± 10	245 ± 10

CABLE SIZE & ORDERING INFORMATION:

Cable Size	Standard Length
4/6/12/24/48/72/96 Fibers	2 km

STANDARDS

- ISO 11801
- I EC 60793-1/60794-1-2/60794-3-10

ORDERING INFORMATION:

Om2- HDPE	Om3- HDPE	Om4- HDPE	Om2 - LSZH	Om3- LSZH	Om4- LSZH
NCB-FM50O-ALHD-04	NCB-FM51O-ALHD-04	NCB-FM52O-ALHD-04	NCB-FM50O-ALLS-04	NCB-FM51O-ALLS-04	NCB-FM52O-ALLS-04
NCB-FM50O-ALHD-06	NCB-FM51O-ALHD-06	NCB-FM52O-ALHD-06	NCB-FM50O-ALLS-06	NCB-FM51O-ALLS-06	NCB-FM52O-ALLS-06
NCB-FM50O-ALHD-12	NCB-FM51O-ALHD-12	NCB-FM52O-ALHD-12	NCB-FM50O-ALLS-12	NCB-FM51O-ALLS-12	NCB-FM52O-ALLS-12
NCB-FM50O-ALHD-24	NCB-FM51O-ALHD-24	NCB-FM52O-ALHD-24	NCB-FM50O-ALLS-24	NCB-FM51O-ALLS-24	NCB-FM52O-ALLS-24
NCB-FM50O-ALHD-48	NCB-FM51O-ALHD-48	NCB-FM52O-ALHD-48	NCB-FM50O-ALLS-48	NCB-FM51O-ALLS-48	NCB-FM52O-ALLS-48
NCB-FM50O-ALHD-72	NCB-FM51O-ALHD-72	NCB-FM52O-ALHD-72	NCB-FM50O-ALLS-72	NCB-FM51O-ALLS-72	NCB-FM52O-ALLS-72
NCB-FM50O-ALHD-96	NCB-FM51O-ALHD-96	NCB-FM52O-ALHD-96	NCB-FM50O-ALLS-96	NCB-FM51O-ALLS-96	NCB-FM52O-ALLS-96

DOUBLE SHEATH MM MT

Central Strength Member - FRP
Armour
Laminated Aluminum Tape
Jelly Filled Loose Tube
Optical Fibre
Inner Sheath
Polyester Tape with Binder
Flooding Jelly
Rip Cord(s)
Outer Sheath

STANDARDS

- ISO 11801
- IEC 60793-1/60794-1-2

DESCRIPTION

- Multi -loose tube with jelly compound.
- Inner Sheath HDPE - Black colour
- Outer Sheath HDPE/LSZH - Black colour
- Central Strength Member – FRP Rod

APPLICATIONS

- **Suitable for outdoor (duct) local area network systems.**
- **Excellent crush resistant performance, light weight compact structure**

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature : -20℃ to +70℃
Storage Temperature : -40℃ to +60℃

Jacket Material : HDPE /LSZH SHEATH

Fiber Count	Outer Diameter (mm)	Thickness of Jacket - Outer (mm)	Thickness of Jacket - Inner (mm)	Nominal Cable weight (kg/km)	Pulling Tension		Crush Load N/100 (mm)	Bend Radius (mm)	
					Short Term (N)	Long Term (N)		Short Term (N)	Long Term (N)
4	12.2 ± 0.1 mm	1.5 mm	0.8 mm	138/169	2700	1000	3000	20D	10D
6	12.2 ± 0.1 mm	1.5 mm	0.8 mm	138 /169	2700	1000	3000	20D	10D
12	12.2 ± 0.1 mm	1.5 mm	0.8 mm	138 /169	2700	1000	3000	20D	10D
24	12.2 ± 0.1 mm	1.5 mm	0.8 mm	138 /169	2700	1000	3000	20D	10D

PHYSICAL PROPERTIES

No. of Fibers	4F	6F	12F	24F
Strength Member-FRP	1.8± 0.1	1.8± 0.1	1.8± 0.1	1.8± 0.1
Loose Tube Diameter-mm	(1.8± 0.1)	(1.8± 0.1)	(1.8± 0.1)	(1.8± 0.1)
Number of Loose Tube	2	3	3	6
Number of Fiber in Loose Tube	2	2	4	4
Number of Filler	4	3	3	0

DOUBLE SHEATH MM MT

COLOR CODE

BL-Blue	OR-Orange	GR-Green	BR-Brown

MULTI LOOSE TUBE COLOR SEQUENCE: OM1/OM2/ OM3

OM1	BL-Blue	OR-Orange	GR-Green		
Om2 & OM3	BL-Blue	OR-Orange	GR-Green	BR-Brown	SL-SlateWH-White

OPTICAL FIBER CHARACTERISTICS:

	Om2	OM3	OM4
Fiber Type	50/125 μm OM2	50/125 μm Om3	50/125 μm OM4
Operational Wavelength	850 nm	850 nm	850 nm
Max Attenuation (db / km)	<=3.5	<=3.2	<=3.0

CHARACTERISTICS (CABLED) MULTI-MODE - MATCHED-CLADDED OPTICAL FIBERS ACCORDING TO ITU

Fiber - type	Mode-filed/Cladding Diameter (um)	Wavelength (nm)	Numerical Aperture (um)	Refractive Index	Fiber - type
50/125 OM2	50 ± 2.5	850	0.200 ± 0.015	1.483	50/125 OM2
	125 ± 1	1300		1.478	
50/125 OM3	50 ± 2.5	850	0.200 ± 0.015	1.483	50/125 OM3
	125 ± 1	1300		1.478	
50/125 OM4	50 ± 2.5	850	0.200 ± 0.015	1.483	50/125 OM4
	125 ± 1	1300		1.478	

CABLE SIZE & ORDERING INFORMATION:

Cable Size	Standard Length
4/6/12/24 Fibers	2 km / 4 Km ± 10%

ORDERING INFORMATION:

OM2	OM3	OM4	Description
NCB-FM50O-ALDD-04	NCB-FM51O-ALDD-04	NCB-FM52O-ALDD-04	O.F.Cable 4 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB-FM50O-ALDD-06	NCB-FM51O-ALDD-06	NCB-FM52O-ALDD-06	O.F.Cable 6 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB- FM50O -ALDD-12	NCB- FM51O -ALDD-12	NCB-FM52O-ALDD-012	O.F.Cable 12 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB- FM50O -ALDD-24	NCB- FM51O -ALDD-24	NCB-FM52O-ALDD-024	O.F.Cable 24 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB-FM50O-ALDL-04	NCB-FM51O-ALDL-04	NCB-FM52O-ALDL-04	O.F.Cable LSZH 4 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB- FM50O -ALDL-06	NCB- FM51O -ALDL-06	NCB-FM52O-ALDL-06	O.F.Cable LSZH 6 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB- FM50O -ALDL-12	NCB- FM51O -ALDL-12	NCB-FM52O-ALDL-12	O.F.Cable LSZH 12 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket
NCB- FM50O –ALDL-24	NCB- FM51O –ALDL-24	NCB-FM52O-ALDL-24	O.F.Cable LSZH 24 F Outdoor Multitube MM OM2/OM3/OM4 Double Sheath Jacket

DOUBLE SHEATH SM MT FIBER

- Central Strength Member
- Corrugated ECCS Tape armor
- Jelly Filled Loose Tube
- Inner Sheath
- Polyester Tape
- Flooding Jelly
- Optical Fibre
- Rip Cord(s)
- Outer Sheath

STANDARDS

- ISO 11801
- IEC 60793-1/60794-1-2
- ITU-T-REC G.652D

APPLICATIONS

- **Suitable for outdoor (duct) local area network systems.**
- **Excellent crush resistant performance, light weight compact structure**

DESCRIPTION

- Multi Loose tube with jelly compound.
- Inner Sheath HDPE - Black colour
- Outer sheath HDPE - Black colour

MECHANICAL & ENVIRONMENT CHARACTERISTICS

Operating Temperature	:	- 20°C to +70°C
Storage Temperature	:	- 40°C to +60°C

Jacket Material : HDPE / LSZH

Fiber Count	Outer Diameter (mm)	Thickness of Jacket - Outer (mm)	Thickness of Jacket - Inner (mm)	Nominal Cable Weight (kg/km)	Pulling Tension		Crush Load N/100 (mm)	Bend Radius (mm)	
					Short Term (N)	Long Term (N)		Short Term (N)	Long Term (N)
4	11.8 ± 0.5mm	1.5	1.0	131/162	2000	800	4000	20D	10D
6	11.8 ± 0.5mm	1.5	1.0	130/161	2000	800	4000	20D	10D
12	11.8 ± 0.5mm	1.5	1.0	130/161	2000	800	4000	20D	10D
24	11.8 ± 0.5mm	1.5	1.0	128/158	2000	800	4000	20D	10D

PHYSICAL PROPERTIES

No. of Fibers	4F	6F	12F	24F
Strength Member-FRP	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1
Loose Tube Diameter-mm	1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1	1.7 ± 0.1
Number of Loose Tube	2	3	3	6
Number of Fiber in Loose Tube	2	2	4	4
Number of Filler	4	3	3	0

DOUBLE SHEATH SM MT FIBER

COLOR CODE

BL-Blue	OR-Orange	GR-Green	BR-Brown

MULTI LOOSE TUBE COLOR SEQUENCE

BL-Blue	OR-Orange	GR-Green	BR-Brown	SL-Slate	WH-White

OPTICAL FIBER CHARACTERISTICS:

Fiber Type	9/125 um (OS1)	
Operational Wavelength	1310 nm	1550 nm
Max Attenuation (db / km)	<=0.38	<=0.25

CHARACTERISTICS (CABLED) SINGLE MODE - MATCHED-CLADDED OPTICAL FIBERS ACCORDING TO ITU

Fiber - type & Refractive Index	Mode-filed/Cladding Diameter (um)	Wavelength (nm)	Dispersion (ps/(nm-km)	PMD (ps/km)	Cable Cut-off wavelength (nm)
9/125 / G.652D 1.4674/1.4679	9.2 ± 0.4 125 ± 0.7	1310 1550	<=3.5 <=18	<=0.2	<=1260

CABLE SIZE & ORDERING INFORMATION:

Cable Size	Standard Length
4/6/12/24 Fibers	2 km / 4 Km ± 10%

ORDERING INFORMATION:

Part Code	Description
NCB-FS09O-ALDD-04	O.F.Cable 4 F Outdoor Multitube SM Double Sheath Jacket
NCB-FS09O-ALDD-06	O.F.Cable 6 F Outdoor Multitube SM Double Sheath Jacket
NCB-FS09O-ALDD-12	O.F.Cable 12 F Outdoor Multitube SM Double Sheath Jacket
NCB-FS09O-ALDD-24	O.F.Cable 24 F Outdoor Multitube SM Double Sheath Jacket
NCB-FS09O-ALDL-04	O.F.Cable 4 F Outdoor Multitube SM Double Sheath Jacket - LSZH
NCB-FS09O-ALDL-06	O.F.Cable 6 F Outdoor Multitube SM Double Sheath Jacket - LSZH
NCB-FS09O-ALDL-12	O.F.Cable 12 F Outdoor Multitube SM Double Sheath Jacket - LSZH
NCB-FS09O-ALDL-24	O.F.Cable 24 F Outdoor Multitube SM Double Sheath Jacket - LSZH

FIBER PATCH CORDS
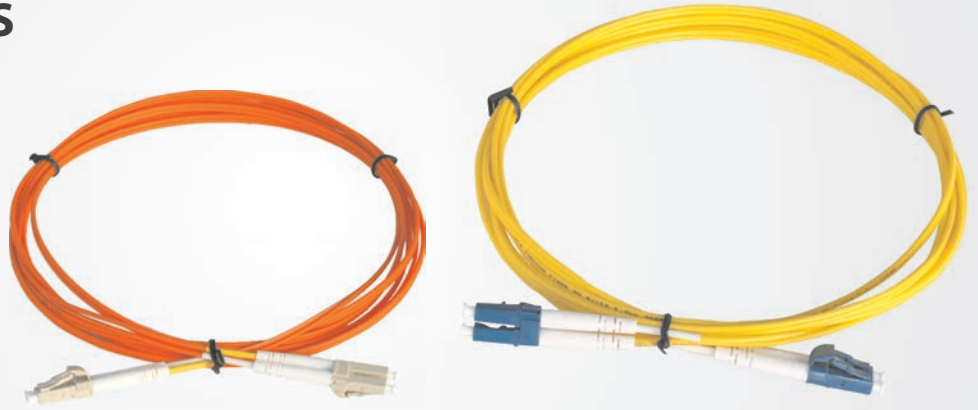
D-Link offers standard simplex & duplex patch cords in a variety of connectors & cables configurations. D-Link patch cords are available with full standard optical specifications, precise length tolerances. All assemblies are 100% inspected for optical characteristics and fiber end face finish.

The optical fiber patch cords are suitable for data communication, telecommunication applications. The terminated connectors in assemblies are designed to and are compatible with industry standards (EIA / TIA, IEC, ANSI, NTT and Telecordia). D-Link can deliver customized patch cords as per requirement.

KEY FEATURES
- Adopts high precision ceramic ferrule with good concentricity.
- Good geometrical characteristics of apex offset & radius of curvature & fiber height.
- Compact & strong crimping offers exceptional tensile strength in cable assemblies.
- 100% inspected for optical characteristics & fiber end face finish.
- Low insertion loss & return loss, clean and scratch-free end faces.
- Good performance endurance under changing circumstances.
- Strength member-aramid yarn

SPECIFICATIONS

| Connector Type	SC/ ST/ FC/ LC/ MTRJ/MU/DIN/E2000		
Optical Fiber	Single-mode	Multi-mode	
	G652D, G657A, G657B	OM1, OM2, OM3, OM4	
Cable Type	PVC & LSZH on request		
	0.9mm/ 2.0mm/ 3.0mm Simplex & duplex		
Cable Color, Length	Yellow for Single-mode & Orange for Multi-mode & Aqua for 0M3 & Erika Violet for OM4		
	1 m, 2m & 3m. Other lengths on request.		
Optical Specification	Insertion Loss	Typical: = 0.2dB, Max. 0.3dB (MTRJ: Max. 0.5dB)	Typical: = 0.2dB, Max. 0.3dB (MTRJ: Max. 0.5dB)
	Return Loss	PC = 45dB, UPC = 50 dB, APC = 60dB	=30dB
Mechanical Specification	Connector Ferrule	Ceramic, (MTRJ: PS- Polyphenylene Sulphide)	
	Apex Offset	< 50um	
	Fiber Height	± 100um	
	End-face Radius of Curvature	7mm < R < 25mm (Excluding MTRJ)	
	Repeatability	= 0.2dB 1,000 times mating cycles	
Working Temperature	40℃ ~ + 85℃		
Storage Temperature	40℃ ~ + 85℃		

FIBER PATCH CORDS

ORDERING INFORMATION

Type-Length	Single Mode (09um-OS1)	Single Mode (09um -OS2)	Multi Mode (62.5 um-OM1)	Multi Mode (50um-OM2)	Multi Mode (51um-OM3)	Multi Mode (50um-OM4)
Simplex-PVC-1m	NCB-FS09S-STSC-1 NCB-FS09S-STST-1 NCB-FSO9S-SCSC-1 NCB-FS09S-LCSC-1 NCB-FS09S-LCLC-1 NCB-FS09S-LCFC-1 NCB-FS09S-LCST-1 NCB-FS09S-SCFC-1 NCB-FS09S-FCFC-1 NCB-FS09S-STFC-1	NCB-FS10S-STSC-1 NCB-FS10S-STST-1 NCB-FS10S-SCSC-1 NCB-FS10S-LCSC-1 NCB-FS10S-LCLC-1 NCB-FS10S-LCFC-1 NCB-FS10S-LCST-1 NCB-FS10S-SCFC-1 NCB-FS10S-FCFC-1 NCB-FS10S-STFC-1	NCB-FM62S-STST-1 NCB-FM62S-STSC-1 NCB-FM62S-SCSC-1 NCB-FM62S-LCST-1 NCB-FM62S-LCSC-1 NCB-FM62S-LCLC-1 NCB-FM62S-LCST-1 NCB-FM62S-SCFC-1 NCB-FM62S-FCFC-1 NCB-FM62S-STFC-1	NCB-FM50S-STST-1 NCB-FM50S-STSC-1 NCB-FM50S-SCSC-1 NCB-FM50S-LCSC-1 NCB-FM50S-LCLC-1 NCB-FM50S-LCST-1 NCB-FM50S-LCST-1 NCB-FM50S-SCFC-1 NCB-FM50S-FCFC-1 NCB-FM50S-STFC-1	NCB-FM51S-STST-1 NCB-FM51S-STSC-1 NCB-FM51S-SCSC-1 NCB-FM51S-LCSC-1 NCB-FM51S-LCLC-1 NCB-FM51S-LCST-1 NCB-FM51S-LCST-1 NCB-FM51S-SCFC-1 NCB-FM51S-FCFC-1 NCB-FM51S-STFC-1	NCB-FM54S-STST-1 NCB-FM54S-STSC-1 NCB-FM54S-SCSC-1 NCB-FM54S-LCSC-1 NCB-FM54S-LCLC-1 NCB-FM54S-LCST-1 NCB-FM54S-LCST-1 NCB-FM54S-SCFC-1 NCB-FM54S-FCFC-1 NCB-FM54S-STFC-1
Simplex-LSZH-1m	NCB-FS09S-STSC-1-LS NCB-FS09S-STST-1-LS NCB-FSO9S-SCSC-1-LS NCB-FS09S-LCSC-1-LS NCB-FS09S-LCLC-1-LS NCB-FS09S-LCFC-1-LS NCB-FS09S-LCST-1-LS NCB-FS09S-SCFC-1-LS NCB-FS09S-FCFC-1-LS NCB-FS09S-STFC-1-LS	NCB-FS10S-STSC-1-LS NCB-FS10S-STST-1-LS NCB-FS10S-SCSC-1-LS NCB-FS10S-LCSC-1-LS NCB-FS10S-LCLC-1-LS NCB-FS10S-LCFC-1-LS NCB-FS10S-LCST-1-LS NCB-FS10S-SCFC-1-LS NCB-FS10S-FCFC-1-LS NCB-FS10S-STFC-1-LS	NCB-FM62S-STST-1-LS NCB-FM62S-STSC-1-LS NCB-FM62S-SCSC-1-LS NCB-FM62S-LCST-1-LS NCB-FM62S-LCSC-1-LS NCB-FM62S-LCLC-1-LS NCB-FM62S-LCST-1-LS NCB-FM62S-SCFC-1-LS NCB-FM62S-FCFC-1-LS NCB-FM62S-STFC-1-LS	NCB-FM50S-STST-1-LS NCB-FM50S-STSC-1-LS NCB-FM50S-SCSC-1-LS NCB-FM50S-LCSC-1-LS NCB-FM50S-LCLC-1-LS NCB-FM50S-LCST-1-LS NCB-FM50S-LCST-1-LS NCB-FM50S-SCFC-1-LS NCB-FM50S-FCFC-1-LS NCB-FM50S-STFC-1-LS	NCB-FM51S-STST-1-LS NCB-FM51S-STSC-1-LS NCB-FM51S-SCSC-1-LS NCB-FM51S-LCSC-1-LS NCB-FM51S-LCLC-1-LS NCB-FM51S-LCST-1-LS NCB-FM51S-LCST-1-LS NCB-FM51S-SCFC-1-LS NCB-FM51S-FCFC-1-LS NCB-FM51S-STFC-1-LS	NCB-FM54S-STST-1- LS NCB-FM54S-STSC-1-LS NCB-FM54S-SCSC-1-LS NCB-FM54S-LCSC-1-LS NCB-FM54S-LCLC-1-LS NCB-FM54S-LCST-1-LS NCB-FM54S-LCST-1-LS NCB-FM54S-SCFC-1-LS NCB-FM54S-FCFC-1-LS NCB-FM54S-STFC-1-LS
Duplex-PVC-1m	NCB-FS09D-STST-1 NCB-FS09D-SCSC-1 NCB-FS09D-STSC-1 NCB-FS09D-STFC-1 NCB-FS09D-SCFC-1 NCB-FS09D-LCST-1 NCB-FS09D-LCSC-1 NCB-FS09D-LCLC-1 NCB-FS09D-LCFC-1 NCB-FS09D-FCFC-1 NCB-FS09D-MTST-1 NCB-FS09D-MTSC-1 NCB-FS09D-MTMT-1	NCB-FS10D-STST-1 NCB-FS10D-SCSC-1 NCB-FS10D-STSC-1 NCB-FS10D-STFC-1 NCB-FS10D-SCFC-1 NCB-FS10D-LCST-1 NCB-FS10D-LCSC-1 NCB-FS10D-LCLC-1 NCB-FS10D-LCFC-1 NCB-FS10D-FCFC-1 NCB-FS10D-MTST-1 NCB-FS10D-MTSC-1 NCB-FS10D-MTMT-1	NCB-FM62D-STST-1 NCB-FM62D-STSC-1 NCB-FM62D-SCSC-1 NCB-FSM62D-STFC-1 NCB-FM62D-SCFC-1 NCB-FM62D-LCST-1 NCB-FM62D-LCSC-1 NCB-FM62D-LCLC-1 NCB-FM62D-LCFC-1 NCB-FM62D-FCFC-1 NCB-FM62D-MTST-1 NCB-FM62D-MTSC-1 NCB-FM62D-MTMT-1	NCB-FM50D-STST-1 NCB-FM50D-STSC-1 NCB-FM50D-SCSC-1 NCB-FM50D-STFC-1 NCB-FM50D-SCFC-1 NCB-FM50D-LCST-1 NCB-FM50D-LCSC-1 NCB-FM50D-LCLC-1 NCB-FM50D-LCFC-1 NCB-FM50D-FCFC-1 NCB-FM50D-MTST-1 NCB-FM50D-MTSC-1 NCB-FM50D-MTMT-1	NCB-FM51D-STST-1 NCB-FM51D-STSC-1 NCB-FM51D-SCSC-1 NCB-FM51D-STFC-1 NCB-FM51D-SCFC-1 NCB-FM51D-LCST-1 NCB-FM51D-LCSC-1 NCB-FM51D-LCLC-1 NCB-FM51D-LCFC-1 NCB-FM51D-FCFC-1 NCB-FM51D-MTST-1 NCB-FM51D-MTSC-1 NCB-FM51D-MTMT-1	NCB-FM54D-STST-1 NCB-FM54D-STSC-1 NCB-FM54D-SCSC-1 NCB-FM54D-STFC-1 NCB-FM54D-SCFC-1 NCB-FM54D-LCST-1 NCB-FM54D-LCSC-1 NCB-FM54D-LCLC-1 NCB-FM53D-LCFC-1 NCB-FM53D-FCFC-1 NCB-FM54D-MTST-1 NCB-FM54D-MTSC-1 NCB-FM54D-MTMT-1
Duplex-LSZH-1m	NCB-FS09D-STST-1-LS NCB-FS09D-SCSC-1-LS NCB-FS09D-STSC-1-LS NCB-FS09D-STFC-1-LS NCB-FS09D-SCFC-1-LS NCB-FS09D-LCST-1-LS NCB-FS09D-LCSC-1-LS NCB-FS09D-LCLC-1-LS NCB-FS09D-LCFC-1-LS NCB-FS09D-FCFC-1-LS NCB-FS09D-MTST-1-LS NCB-FS09D-MTSC-1-LS NCB-FS09D-MTMT-1-LS	NCB-FS10D-STST-1-LS NCB-FS10D-SCSC-1-LS NCB-FS10D-STSC-1-LS NCB-FS10D-STFC-1-LS NCB-FS10D-SCFC-1-LS NCB-FS10D-LCST-1-LS NCB-FS10D-LCSC-1-LS NCB-FS10D-LCLC-1-LS NCB-FS10D-LCFC-1-LS NCB-FS10D-FCFC-1-LS NCB-FS10D-MTST-1-LS NCB-FS10D-MTSC-1-LS NCB-FS10D-MTMT-1-LS	NCB-FM62D-STST-1-LS NCB-FM62D-STSC-1-LS NCB-FM62D-SCSC-1-LS NCB-FSM62D-STFC-1-LS NCB-FM62D-SCFC-1-LS NCB-FM62D-LCST-1-LS NCB-FM62D-LCSC-1-LS NCB-FM62D-LCLC-1-LS NCB-FM62D-LCFC-1-LS NCB-FM62D-FCFC-1-LS NCB-FM62D-MTST-1-LS NCB-FM62D-MTSC-1-LS NCB-FM62D-MTMT-1-LS	NCB-FM50D-STST-1-LS NCB-FM50D-STSC-1-LS NCB-FM50D-SCSC-1-LS NCB-FM50D-STFC-1-LS NCB-FM50D-SCFC-1-LS NCB-FM50D-LCST-1-LS NCB-FM50D-LCSC-1-LS NCB-FM50D-LCLC-1-LS NCB-FM50D-LCFC-1-LS NCB-FM50D-FCFC-1-LS NCB-FM50D-MTST-1-LS NCB-FM50D-MTSC-1-LS NCB-FM50D-MTMT-1-LS	NCB-FM51D-STST-1-LS NCB-FM51D-STSC-1-LS NCB-FM51D-SCSC-1-LS NCB-FM51D-STFC-1-LS NCB-FM51D-SCFC-1-LS NCB-FM51D-LCST-1-LS NCB-FM51D-LCSC-1-LS NCB-FM51D-LCLC-1-LS NCB-FM51D-LCFC-1-LS NCB-FM51D-FCFC-1-LS NCB-FM51D-MTST-1-LS NCB-FM51D-MTSC-1-LS NCB-FM51D-MTMT-1-LS	NCB-FM54D-STST-1-LS NCB-FM54D-STSC-1-LS NCB-FM54D-SCSC-1-LS NCB-FM54D-STFC-1-LS NCB-FM54D-SCFC-1-LS NCB-FM54D-LCST-1-LS NCB-FM54D-LCSC-1-LS NCB-FM54D-LCLC-1-LS NCB-FM53D-LCFC-1-LS NCB-FM53D-FCFC-1-LS NCB-FM54D-MTST-1-LS NCB-FM54D-MTSC-1-LS NCB-FM54D-MTMT-1-LS

*Other lengths available on request also available in LSZH

OPTIC FIBER COMPONENTS – PIGTAILS
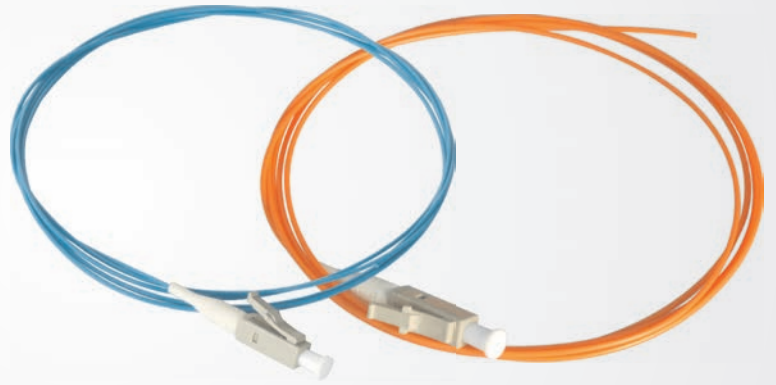
KEY FEATURES

- Adopts high precision ceramic ferrule with good concentricity.
- Advanced termination facilities & process, deliver good geometrical characteristics of apex offset & radius of curvature & fiber height.
- 100% inspected for optical characteristics & fiber end face finish.
- Low insertion loss & return loss, clean and scratch-free end faces.
- Good performance endurance under changing circumstances.

D-Link offers quality optical fiber pigtails which are single ended with connectors. D-Link pigtails come with good end-face geometry, full standard optical specifications, precise length & tolerances.

The pre-polished pigtail assemblies give the quality, confidence & convenience to be installed & spliced in the field. Standard TIA/ EIA 568.C.3

SPECIFICATIONS

Connector		SC / ST/ FC/ LC/ MTRJ/MU/DIN/E2000		SC/ LC
Optical Fiber		Single-mode	Multi-mode	Multi-mode
		OS1, OS2, G652D, G657A, G657B	OM1, OM2, OM3	OM4
Cable Type		PVC and LSZH on request		
		0.9mm/ 2.0mm/ 3.0mm		
Cable Color, Length		Yellow for Single-mode & Orange for Multi-mode & Aqua for OM3 & Erika for OM4		
		1m, 2m, & 3m. Other lengths on request		
		Buffer Diameter: 900um Tight Buffer		
		G652D Minimum Bend Radius: 15mm		
		G657A1 Minimum Bend Radius: 10mm		
		G657A2 Minimum Bend Radius: 7.5mm		
		G657B3 Minimum Bend Radius: 5.0mm		
Physical Properties		Retention Strength: 100N		
		Cable: 900um Buffered		
Optical Specification	Insertion Loss	Typical: = 0.2dB, Max. 0.3dB (MTRJ: Max 0.5dB)	Typical: = 0.2dB, Max. 0.3dB (MTRJ: Max 0.5dB)	
	Return Loss	PC = 45dB, UPC = 50dB, APC = 60dB		= 30dB
Mechanical Specification	Connector	Ceramic		
	Apex Offset	<50um		
	Fiber Height	±100nm		
	End-face Radius of Curvature	7mm < R < 25mm (Excluding MTRJ)		
	Repeatability	= 0.2dB 1,000 times mating cycles		
Working Temperature		− 40℃ ~+ 85℃		
Storage Temperature		− 40℃~ +85℃		

OPTIC FIBER COMPONENTS – PIGTAILS

ORDERING INFORMATION

Type-Length	Single Mode (09um-OS1)	Single Mode (09um -OS2)	Multi Mode (62.5 um-OM1)	Multi Mode (50um-OM2)	Multi Mode (51um-OM3)	Multi Mode (51um-OM4)
Simplex-PVC-1m	NCB-FS09S-FC1	NCB-FS10S-FC1	NCB-FM62S-LC1	NCB-FM50S-LC1	NCB-FM51S-LC1	NCB-FM54S-LC1
	NCB-FS09S-SC1	NCB-FS10S-SC1	NCB-FM62S-SC1	NCB-FM50S-ST1	NCB-FM51S-SC1	NCB-FM54S-SC1
	NCB-FS09S-ST1	NCB-FS10S-ST1	NCB-FM62S-ST1	NCB-FM50S-SC1	NCB-FM51S-ST1	NCB-FM54S-ST1
	NCB-FS09S-LC1	NCB-FS10S-LC1	NCB-FM62S-FC1	NCB-FM50S-FC1	NCB-FM51S-FC1	NCB-FM54S-FC1
Simplex-LSZH-1m	NCB-FS09S-FC1-LS	NCB-FS10S-FC1-LS	NCB-FM62S-LC1-LS	NCB-FM50S-LC1-LS	NCB-FM51S-LC1-LS	NCB-FM54S-LC1-LS
	NCB-FS09S-SC1-LS	NCB-FS10S-SC1-LS	NCB-FM62S-SC1-LS	NCB-FM50S-ST1-LS	NCB-FM51S-SC1-LS	NCB-FM54S-SC1-LS
	NCB-FS09S-ST1-LS	NCB-FS10S-ST1-LS	NCB-FM62S-ST1-LS	NCB-FM50S-SC1-LS	NCB-FM51S-FC1-LS	NCB-FM54S-FC1-LS
	NCB-FS09S-LC1-LS	NCB-FS10S-LC1-LS	NCB-FM62S-FC1-LS	NCB-FM50S-FC1-LS	NCB-FM51S-ST1-LS	NCB-FM54S-ST1-LS

*Other lengths available on request also available in LSZH

FIBER OPTIC COMPONENTS
LC-CONNECTOR
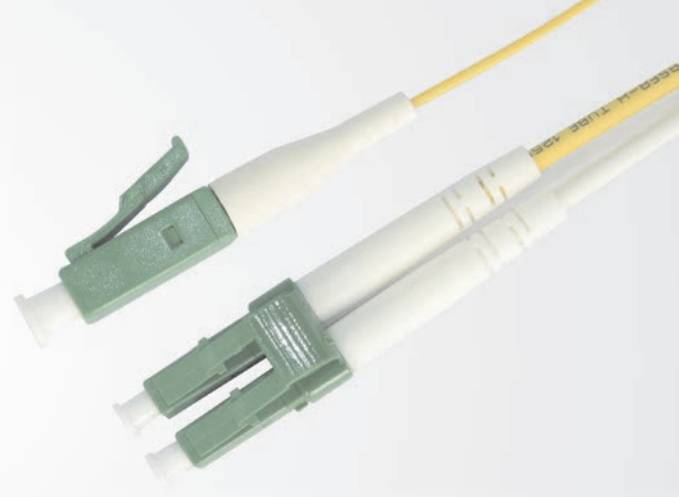
D-Link adopts high precision equipments in fiber connector product line providing the highest levels of reliability and performance. Each FC simplex optical fiber connector has a 2.5mm ceramic ferrule which is housed in a nickel plated brass housing. Available in both Single mode and Multi mode, connectors come with a 900μm and 3mm strain relief boot. Good for use with pigtail and buffered fiber cables.

KEY FEATURES
- **High Precision Ceramic Ferrule**
- **High Precision Polymer housing**
- **Simplex or Duplex at your choice**
- **Beige for Multi mode and Blue for Single mode**
- **APC Green Polymer housing with 900μm and 3mm strain relief boot**

SPECIFICATIONS

Measure	:	LC Connector		
Insertion Loss dB (Single and Multi Mode)	:	< 0.3		
Return Loss	:	> 55dB UPC Style Ferrule	|	> 60dB APC Style Ferrule
Cable Boot	:	2mm white, 3mm upon request		
Mating Cycle	:	Up to 1000 times		
Ferrule Diameter	:	1.25mm ± 0.001		
Ferrule Tolerance Single Mode	:	126 ± 0.5 μm internal		
Ferrule Tolerance Multi Mode	:	127 ± 0.5 μm internal		
Finish	:	Pre-radiused PC end, radius 10 to 25mm		
Operating Temperature	:	– 40℃ to + 85℃		
Meet Standard	:	IEC61754-20 Optical Fiber Connector Interface		
Durability	:	IEC61300-2-2 Fiber Optic Interconnecting Devices		
Performance	:	IEC61753-1 Optical Fiber interconnecting devices and passive components performance standard		

ORDERING INFORMATION:

Part Code	Description
NCO-FSSLCXX	Connector SM LC Style
NCO-FMSLC20	Connector MM LC Style

FIBER OPTIC COMPONENTS
FC – CONNECTOR
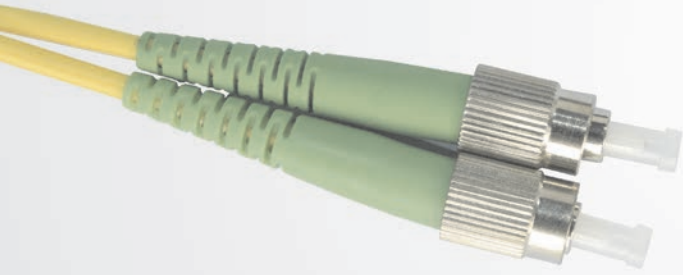
D-Link adopts high precision equipments in fiber connector product line providing the highest levels of reliability and performance. Each FC simplex optical fiber connector has a 2.5mm ceramic ferrule which is housed in a nickel plated brass housing. Available in both Single mode and Multi mode, connectors come with a 900ìm and 3mm strain relief boot. Good for use with pigtail and buffered fiber cables. available with 900um, 2.0mm,3.0mm.

KEY FEATURES
• High Precision Ceramic Ferrule
• High Precision Nickel plated brass housing
• 900ìm and 3mm strain relief boot
• Available with 900um, 2.0mm,3.0mm
  strain relief boot

SPECIFICATIONS

Measure	:	FC Connector
Insertion Loss dB (Single and Multi Mode)	:	< 0.3
Return Loss	:	> 55dB UPC Style Ferrule | > 60dB APC Style Ferrule
Pigtail Boot	:	900mm black (Multi mode) blue (Single mode)
Cable Boot	:	3mm black (Multi mode), blue (Single mode) 2mm upon request
Mating Cycle	:	Up to 1000 times
Ferrule Diameter	:	2.5mm ± 0.001
Ferrule Tolerance Single Mode	:	126 ± 0.5 m internal
Ferrule Tolerance Multi Mode	:	127 ± 0.5 m internal
Finish	:	Pre-radiused PC end, radius 10 to 25mm
Operating Temperture	:	– 40℃ to + 85℃
Meet Standard	:	IEC61754-20 Optical Fiber Connector Interface
Durability	:	IEC61300-2-2 Fiber Optic Interconnecting Devices
Performance	:	IEC61753-1 Optical Fiber interconnecting devices and passive components performance standard

ORDERING INFORMATION:

Part Code	Description
NCO-FSSFCXX	Connector SM FC/PC type
NCO-FMSFCXX	Connector MM FC/PC type

FIBER OPTIC COMPONENTS
MT-RJ – CONNECTOR

At D-Link, we adopt high precision equipments in fiber connector product line providing the highest levels of reliability and performance. It is designed to terminate any 125mm fibre, plus the flexibility of the connector allows it to be used in local area networks. It is also ideal to be used on long haul distance with single mode. Two fiber can be terminated in a MT-RJ connector, ideal for using on high fiber count backbone cable in a small panel. Available in both Single and Multi mode, connectors come with a 2.0mm strain relief boot.

KEY FEATURES

• **High density, allow up to 72 fiber in a 1 unit panel**

• **MT based Multi-Fiber connector for two fibers**

• **Come with a 2.0mm strain relief boot**

SPECIFICATIONS

Measure	:	**MT-RJ Connector**
Insertion Loss dB (Single and Multi Mode)	:	< 0.75
Return Loss	:	> 45dB UPC Style Ferrule
Cable Boot	:	2mm
Mating Cycle	:	Up to 1000 times
Operating Temperature	:	– 40℃ to + 85℃
Meet Standard	:	IEC61754-20 Optical Fiber Connector Interface
Durability	:	IEC61300-2-2 Fiber Optic Interconnecting Devices
Performance	:	IEC61753-1 Optical Fiber interconnecting devices and passive components performance standard

ORDERING INFORMATION:

Part Code	Description
NCO-FSSMTXX	Connector SM MTRJ Style
NCO-FMSMT20	Connector MM MTRJ Style

FIBER OPTIC COMPONENTS
SC – CONNECTOR

D-Link adopts high precision equipments in fiber connector product line providing the highest levels of reliability and performance. Each SC simplex optical fiber connector has a 2.5mm ceramic ferrule which is housed in a color coded polymer frame. Special design allow quick conversion to a duplex style connector by the use of a simple jointing clip.

Available in both Single mode-blue housing and Multi mode-beige housing, connectors come with a 900ìm and 3mm strain relief boot. Good for use with pigtail and buffered fiber cables. Available with 0.9mm and 2.0mm and 3.0mm.

KEY FEATURES
- High Precision Ceramic Ferrule
- High Precision Polymer housing
- Quick conversion to duplex with a joint clip
- Beige for Multi mode and Blue for Single mode
- APC Green Polymer housing Available with 0.9mm and 2.0mm and 3.0mm strain relief boot
- Available with 0.9mm and 2.0mm and 3.0mm

SPECIFICATIONS

Measure	:	SC Connector
Insertion Loss dB (Single and Multi Mode)	:	< 0.3
Return Loss	:	> 50dB UPC Style Ferrule > 60dB APC Style Ferrule
Pigtail Boot	:	900μm beige (Multi mode) blue (Single mode)
Cable Boot	:	3mm beige (Multi mode), blue (Single mode) 2mm upon request
Mating Cycle	:	Up to 1000 times
Ferrule Diameter	:	2.5mm ± 0.001
Ferrule Tolerance Single Mode	:	126 ± 0.5μm internal
Ferrule Tolerance Multi Mode	:	127 ± 0.5μm internal
Finish	:	Pre-radiused PC end, radius 10 to 25mm
Operating Temperature	:	– 40°C to + 85°C
Meet Standard	:	IEC61754-20 Optical Fiber Connector Interface
Durability	:	IEC61300-2-2 Fiber Optic Interconnecting Devices
Performance	:	IEC61753-1 Optical Fiber interconnecting devices and passive components performance standard

ORDERING INFORMATION:

Part Code	Description
NCO-FSSSC09	Connector SM SC type
NCO-FMSSC09	Connector MM SC type

FIBER OPTIC COMPONENTS
ST – CONNECTOR
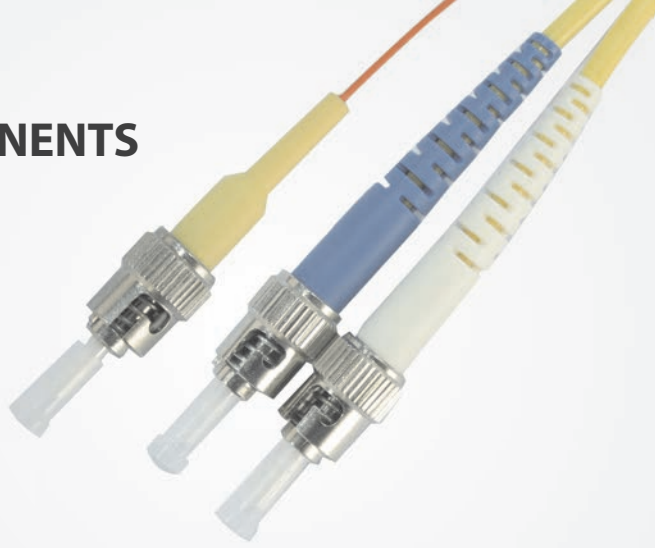
At D-Link, we adopt high precision equipments in fiber connectors product line providing the highest levels of reliability and performance. Each connector has a 2.5mm ceramic ferrule which is housed in a nickel plated brass housing. Available in both Single and Multi mode, connectors come with a 900ìm and 3mm strain relief boot. Good for use with pigtail and buffered fiber cables. Available with 0.9mm and 2.0mm and 3.0mm

KEY FEATURES
• High Precision Ceramic Ferrule
• High Precision Nickel Plated Brass housing
• Come with a 900ìm and 3mm strain relief boot
• Available with 0.9mm and 2.0mm and 3.0mm strain relief boot

SPECIFICATIONS

Measure		ST Connector
Insertion Loss dB (Single and Multi Mode)	:	< 0.3
Return Loss	:	> 50dB UPC Style Ferrule
Pigtail Boot	:	900µm black (MM) yellow (SM)
Cable Boot	:	3mm black, 2mm upon request
Mating Cycle	:	Up to 1000 times
Ferrule Diameter	:	2.5mm ± 0.001
Ferrule Tolerance Single Mode	:	126 ± 0.5µm internal
Ferrule Tolerance Multi Mode	:	127 ± 0.5µm internal
Finish	:	Pre-radiused PC end, radius 10 to 25mm
Operating Temperature	:	– 40℃ to + 85℃
Meet Standard	:	IEC61754-20 Optical Fiber Connector Interface
Durability	:	IEC61300-2-2 Fiber Optic Interconnecting Devices
Performance	:	IEC61753-1 Optical Fiber interconnecting devices and passive components performance standard

ORDERING INFORMATION:

Part Code	Description
NCO-FMSST09	Connector MM ST Style
NCO-FSSST09	Connector SM ST Style

OPTIC FIBER CONNECTOR - FC ADAPTER

D-Link offers high quality FC adapters that have compact design & high precision, which perform well under various circumstances & maintain good plug retention strength.

The female-female threaded adapter provides extremely accurate key alignment to enhance connector loss performance, fully compliant to TIA/EIA, IEC standards. All these FC adapters are with metal housing and zirconia sleeves.

KEY FEATURES
• **Compact design**
• **Telcordia, TIA/EIA, IEC compliance**
• **High precision alignment**
• **Low insertion and return loss**
• **Screw-type locking stable and reliable**
• **Square Type design**

SPECIFICATIONS

Insertion Loss	:	= 0.20dB for Zirconia Sleeve
Sleeve/Ferrule Withdrawal Force	:	≤ 0.2dB

APPLICATIONS

•Telecommunication networks
•LAN
•Data communications
•Optical equipments
•Fiber-To-The-Home
•Premises distribution

ORDERING INFORMATION

Single mode

Part Code	Description
NAD-FSSFCFC	ADAPTOR FC SM

OPTIC FIBER CONNECTOR - LC ADAPTER
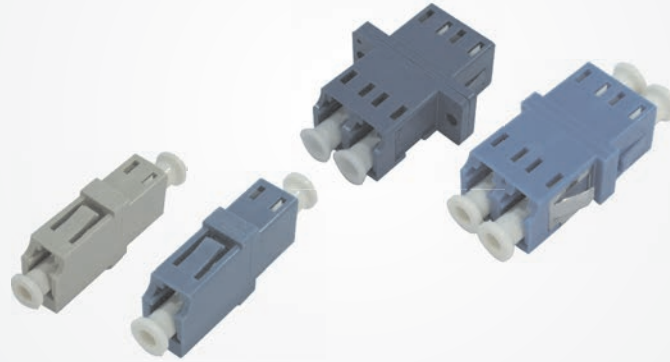
D-Link offers a full range of LC adapters with high precision alignment sleeves for improved reliability and better reconnectability. The LC adapters feature a self-adjusting mechanism designed to accommodate panels of thickness. Duplex LC fiber adapters are with SC footprint. D-Link LC Adapter is designed to work together with the complete LC product family to offer an optimal, high-density solution for your network.

The LC adapters come with zirconia sleeves for both single mode and multimode use.

KEY FEATURES

- Compact design Telecommunication networks
- Telcordia, TIAIEIA, IEC compliance LAN
- High precision alignment Data communications
- Low insertion and return loss Optical equipments
- Self adjusting metal panel clips
- Duplex adapter SC footprint

SPECIFICATIONS

| Insertion Loss | : | ≤ 0.2dB for Zirconia Sleeve |
| Sleeve/ Ferrule Withdrawal Force | : | 1.0N — 2.5N |

APPLICATIONS

- Telecommunication networks
- LAN
- Data communications
- Optical equipments
- Fiber-To-The-Home
- Premises distribution

ORDERING INFORMATION

Single mode		Multi mode	
Part Code	**Description**	**Part Code**	**Description**
NAD-FSSLCLC	ADAPTOR LC SM	NAD-FMSLCLC	ADAPTOR LC MM SIMPLEX
NAD-FSDLCLC	ADAPTOR LC SM DUPLEX	NAD-FMDLCLC	ADAPTOR LC MM DUPLEX
NAD-FSDLCLC-S	ADAPTOR LC SM DUPLEX with Shutter	NAD-FMDLCLC-S	Adapter LC OM3 SimplexAdapter LC OM3 Duplex
			Adapter LC MM Simplex(OM4)
			Adapter LC MM Duplex (OM 4)
			Adapter LC OM3 Duplex with Shutter
			Adapter LC MM Duplex with Shutter (OM 4)

OPTIC FIBER CONNECTOR - SC ADAPTER
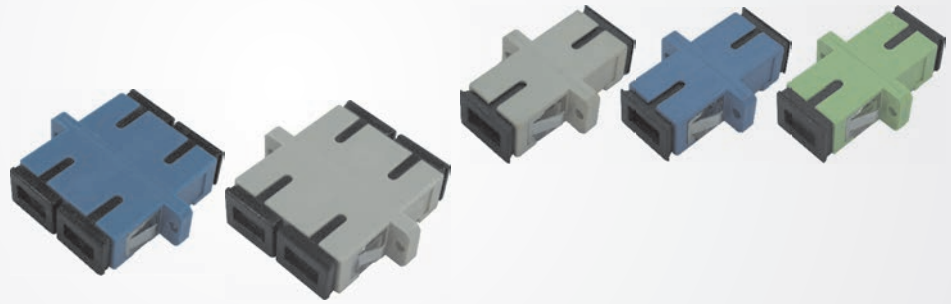
D-Link offers a full range of SC adapters that have compact design & high precision, which perform well under various circumstances & maintain good plug retention strength. Simplex and duplex adapters are available.

The sleeves are basically recommended zirconia split type, the phosphor bronze split.

KEY FEATURES
- **Compact design**
- **Telcordia, TIAIEIA, IEC compliance**
- **High precision alignment**
- **Low insertion and return loss**

SPECIFICATIONS

Insertion Loss	:	< 0.20dB for Zirconia Sleeve
Sleeve/ Ferrule Withdrawal Force	:	2.0N — 5.9N

APPLICATIONS

- Telecommunication networks
- LAN
- Data communications
- Optical equipments

ORDERING INFORMATION

Single mode

Part Code	Description
NAD-FSSSCSC	ADAPTOR SC SM
NAD-FSDSCSC	ADAPTOR SC SM DUPLEX
NAD-FSSSCSC-S	ADAPTOR SC SM with Shutter
NAD-FSDSCSC-S	ADAPTOR SC SM DUPLEX with Shutter

Multi mode

Part Code	Description
NAD-FMSSCSC	Adapter SC OM3 Simplex
NAD-FMDSCSC	Adapter SC OM3 Duplex
NAD-FMSSCSC-S	Adapter SC MM Simplex (OM4)
NAD-FMDSCSC-S	Adapter SC MM Duplex (OM 4)
	Adapter SC OM3 with Shutter
	Adapter SC OM3 Duplex with Shutter
	Adapter SC MM with Shutter (OM4)
	Adapter SC MM Duplex with Shutter (OM 4)

OPTIC FIBER CONNECTOR - ST ADAPTER
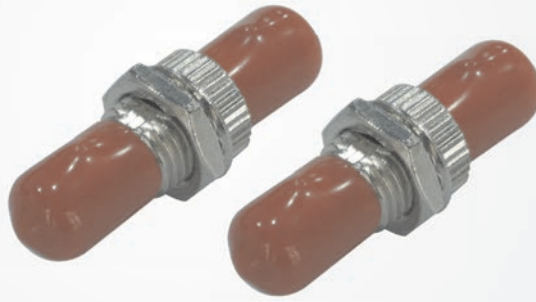
D-Link offers a full range of ST adapters which are comprised of metal outer body and inner assembly fitted with a precision alignment mechanism. The ST adapters set the standard for optical fiber interconnects. These come with a D-Hole profile and retaining nut, which prevents accidental disconnection. The combination of a zirconia alignment sleeves and precision metal housing provides consistent long-term mechanical and good optical performance.

KEY FEATURES
• **Compact design**
• **Telcordia, TIA/EIA, IEC compliance**
• **High precision alignment**
• **Low insertion and return loss**
• **Threaded with nuts or snap-in coupling**
• **Body zinc alloy for long life**

SPECIFICATIONS

Insertion Loss   :   ≤0.2dB for Zirconia Sleeve
Sleeve/Ferrule Withdrawal Force   :   2.0N ~ 5.9N

APPLICATIONS

•Telecommunication networks
•LAN
•Data communications
•Optical equipments
•Fiber-To-The-Home
•Premises distribution

ORDERING INFORMATION

Single mode		Multi mode	
Part Code	**Description**	**Part Code**	**Description**
NAD-FSSSTST	ADAPTOR ST SM	NAD-FMSSTST	ADAPTOR ST MM

FIBER OPTIC COMPONENTS - ADAPTER PANEL
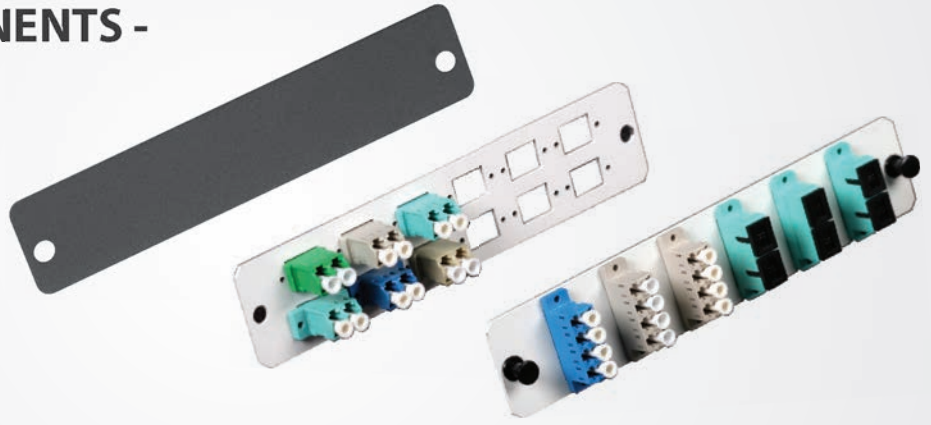
D-Link offers comprehensive range of adapter panel which enhance installation flexibility and convenience. The panel is pre-loaded with adapters and can snap in for installation and can be removed easily for future changes. Blank fiber adapter panels reserve fiber adapter panel space for future use. All fiber adapter panels snap quickly into the front of fiber optic patch panels and enclosures for easy network deployment or moves, adds and changes.

KEY FEATURES

- Cold rolled steel materials
- Available in 3~24 holes (according to the type of adapters)
- Offer type of 175,109 size module panels, other dimension and type according to customers' request
- Suitable for FC,LC,SC,ST,MU,E2000,MPO adapters
- Panel fastener to hold adapter panels securely in place
- Ideal for simple moves, adds and changes

SPECIFICATIONS

PARTS	MATERIAL	DIMENSION	REMARKS
Panel	Steel,1.5mm Thickness	175x37mm (WxH) 109 x35.4mm (WxH)	Black, Beige
Panel Fastener	PC	175 panel: 8.2mm 109 panel: 6.4mm	2 Pieces/ Panel, Black

ORDERING INFORMATION

Part Code	Description
NPL-FXXSC-06	1 x 6 Adapter Panel - SC Simplex with flange
NPL-FXXST-06	1 x 6 Simplex Adapter Panel -ST
NPL-FXXFC-06	1 x 6 Simplex Adapter Panel -FC
NPL-FXXLC-06	1 x 6 Adapter Panel - LC Simplex with flange
NPL-FXXSC-12	1 x 12 Adapter Panel - SC Simplex with flange
NPL-FXXLC-12	1 x 12 Adapter Panel - LC Duplex with flange
NPL-FXXFC-12	1 x 12 Adapter Panel - FC Simplex DD mount
NPL-FXXST-12	1 x 12 Adapter Panel - ST Simplex
NPL-FXXLC-24	1 x 24 Adapter Panel - LC Duplex with flange
NPL-FXDSC-03	1 x 3 Duplex Adapter Panel - SC
NPL-FXDSC-06	1 x 6 Duplex Adapter Panel - SC
NPL-FXDSC-12	1x12 Duplex Adapter Panel-SC
NPL-FXDMT-06	1 x 6 Adapter Panel - MTRJ
NPL-FXXXX-06	Adapter Blank Panel -without any hole

APPLICATIONS

- Installation and management of fiber optic patch cords and pigtails
- Used with rack mount, both fixed and sliding fiber optic patch panel and wall mount distribution box
- High-density fiber optic network application

FIBER OPTIC COMPONENTS
Fiber Distribution Unit - FIXED 1U/ 2U

KEY FEATURES

- Cold Steel Bottom Case, Aluminum Cover material with powder coating for light mounting
- Slim 1U/ 2U Unit Mounting Height
- Front-mounted cable saddles for jumper management
- 1U Can include adaptor panels for MAX 48LC,48SC,36FC,36ST
  2U Can include adaptor panels for MAX 96LC,96SC,72FC,72ST
- Rubber fiber slotted bracket built-in, Plastic Splice tray splice shelf to protect the fibers
- 4 fiber spools built-in for 900µm tight buffered fiber storing
- Capable of storing up to 3 meters of 900µm tight buffered fiber per adapter
- Snap-in locker design, easy to change adapter panels for various connector patching
- Removable front and rear covers for better access to interior of FDU
- Removable rubber grommet allows for pre-terminated fiber trunk instillation, protects cable and minimizes dust build-up
- Accessory kit consists of cable ties, mounting ear screws, and spiral wrap tube

D-Link 19-inch Fixed Optical Fiber Interconnection Units are the smaller basic patch panels & cabinets used in interconnecting, cross-connecting, or splicing applications in LANs at a premise location. The FDU (Fiber Distribution Unit) is modular and suitable for optical cable installation, bare fibers splicing & protection, pigtails storage & management. The number of fibers determines which FDU is appropriate for the application.

The D-Link 1U & 2U Series FDU help you save time & money to manage your cable resources efficiently. By using these shelves to terminate and splice fibers, you can rearrange cabling quickly and keep track of your fiber resources. Efficient fiber management also helps save on maintenance and replacement costs.

SPECIFICATIONS

PARTS	MATERIAL	DIMENSION	REMARKS
Metal Shelf	Bottom Shelf: Cold Steel, 1.2mm thickness Cover: Alum. 1.2mm thicknessMetal	410x310x44.5mm (DxWxH)	1U, Black or Beige
Metal Mounting Ear	Cold Steel, 2.0mm	105x36.3x44.5mm (DxWxH)	2 Pieces, Black or Beige
Splice Tray	Plastic	220x89x17.2mm (DxWxH)	1 tray 24 fibers, 2 trays Max.
Adaptor Plate:	Cold Steel., 1.5mm thickness	175x37mm (WxH)	2 Panels, Black or Beige
Cable Plug	Rubber	28mm Diameter	For 4 Cable Entries

ORDERING INFORMATION

Part Code	Description	Part Code	Description
NLU-FXXUXXR-06	FDU 6 PORT Rack Mount - Unloaded	NLU-FMDLLCR-24	FDU 24 PORT Rack Mount - Loaded (LC) MM
NLU-FXXUXXR-12	FDU 12 PORT Rack Mount - Unloaded	NLU-FSSLSCR-12	FDU 12 PORT Rack Mount - Loaded (SC) SM
NLU-FXXUXXR-24	FDU 24 PORT Rack Mount - Unloaded	NLU-FSDLSCR-24	FDU 24 PORT Rack Mount - Loaded (SC) SM
NLU-FMSLSCR-12	FDU 12 PORT Rack Mount - Loaded (SC) MM	NLU-FSSLLCR-12	FDU 12 PORT Rack Mount - Loaded (LC) SM
NLU-FMDLSCR-24	FDU 24 PORT Rack Mount - Loaded (SC) MM	NLU-FSDLLCR-24	FDU 24 PORT Rack Mount - Loaded (LC) SM
NLU-FMSLLCR-12	FDU 12 PORT Rack Mount - Loaded (LC) MM	NLU-FXXUXXR-48	FDU 48 port Rack Mount Unloaded

FIBER OPTIC COMPONENTS
Fiber Distribution Unit - WALL MOUNT

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KEY FEATURES

- **Space saving with its compact & small design of enclosure**
- **Front door design is easy for operation & fibers expansion**
- **Can manage both splices and terminations**
- **Can include adapter panels for maximum 24 ports LC/SC and 12 ports ST/FC terminations**
- **Rubber fiber slotted bracket built-in, Plastic splice shelf to protect the fibers**
- **Snap-in locker design, easy to change adapter panels for flexible configuration & easy installation**
- **Top & bottom cable entry is easy with rubber plug**
- **Lock & Key Provided**

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The D-Link Wall Mount FDU (Fiber Distribution Unit) is a modular enclosure that provides cross-connect and interconnect capabilities for splicing and terminating outdoor cables & FTTH drop cables in fiber access network. It integrates three main functions of fiber splicing, cable winding & storing, and interface management.

The enclosure adopts good quality metal sheets & surface electrostatic spray technique, which is offering safety & good endurance performance. It is the ideal design for building & campus networking.

APPLICATIONS

- Optical fiber access networks
- Local area networks
- Fiber to the premises
- Small-count splice applications

SPECIFICATIONS

PARTS	MATERIAL	DIMENSION	REMARKS
Metal Shelf	Alum., 1.2mm Thickness	320x250x55mm (LxWxH)	Black or Beige
Splice Tray	Alum., 1.2mm Thickness	140x102x12.5mm (LxWxH)	24Fibers Tray, 1 tray Max.
Adapter Panel	Cold Steel., 1.5mm Thickness	175x37mm (WxH)	1 Panel, Black or Beige
Cable Plug	Rubber	28mm Diameter	For 4 Cable Entries
Cable Saddle	Plastic	28x24mm Inner Ring	2 pcs, with foam sticker

ORDERING INFORMATION

Part Code	Description
NLU-FXXUXXW-06	FDU 6 PORT Wall Mount - UnLoaded
NLU-FXXUXXW-12	FDU 12 PORT Wall Mount - UnLoaded
NLU-FXXUXXW-24	FDU 24 PORT Wall Mount - UnLoaded
NLU-FXXUXXW-48	FDU 48 PORT Wall Mount - UnLoaded

FIBER OPTIC COMPONENTS
Fiber Distribution Unit - SLIDING

KEY FEATURES
- 1.5mm steel sheet for strong housing
- Ball bearing slid rails with positive stop
- Hinged front panel is easy to be turned over & be fixed by snap-in locker
- Front-mounted cable saddles for jumper management
- Can manage both splices and terminations
- Can include adapter panels for up to 48LC, 48SC, 36ST,36FC terminations
- High density splice tray contains 24 fiber maximum in one tray
- Clear plastic cover to protect the fibers
- 4 fiber saddles built-in for 900µm tight buffered fiber winding & storing
- Capable of storing up to 3 meters of 900µm tight buffered fiber per adapter
- Snap-in locker design, easy to change adapter panels for various connector patching
- Removable rubber grommet allows for pre-terminated fiber trunk instillation, protects cable and minimizes dust build-up
- Accessory kit consists of cable ties, mounting ear screws, and spiral wrap tube

D-Link 19-inch Sliding Optical Fiber Interconnection Units are the smaller basic patch panel & cabinet used in interconnecting, cross-connecting, or splicing applications in LANs at a premise location. The FDU (Fiber Distribution Unit) is modular and suitable for optical cable installation, bare fibers splicing & protection, pigtails storage & management. The number of fibers determines which FDU is appropriate for the application.

The D-Link 1U Series FDU help you save time & money to manage your cable resources efficiently. By using these shelves to terminate and splice fibers, you can rearrange cabling quickly and keep track of your fiber resources. Efficient fiber management also helps save on maintenance and replacement costs. The 1U sliding FDU utilize easy glide ball bearing slide rails for smooth pullout & push in with a positive stop feature.

SPECIFICATIONS

PARTS	MATERIAL	DIMENSION	REMARKS
Metal Draw	Steel, 1.5mm Thickness	410 x309 x 38.80mm (DxWxH)	1U, Black or Beige
Metal Outer Shelf	Steel, 1.5mm Thickness	430 x 328 x 44.5mm (DxWxH)	1U, Black or Beige
Metal Mounting Ear	Steel, 2.0mm Thickness	75 x 26.3 x 44.5mm (DxWxH)	2 Pieces, Black or Beige
Splice Tray	Plastic	220x89x17.2mm (DxWxH)	Containers 12, 24 fibers
Adapter Panel	Steel, 1.5mm Thickness	175x37mm (WxH)	2 Panels, Black or Beige
Cable Plug	Rubber	28mm Diameter	For 2 Cable Entries

ORDERING INFORMATION

Part Code	Description	Part Code	Description
NLU-FXXUXXR-06S	FDU 6 PORT Rack Mount - Sliding - Unloaded	NLU-FMSLLCR-12S	FDU 12 PORT Rack Mount - Sliding - Loaded (LC) MM
NLU-FXXUXXR-12S	FDU 12 PORT Rack Mount - Sliding - Unloaded	NLU-FMDLLCR-24S	FDU 24 PORT Rack Mount - Sliding - Loaded (LC) MM
NLU-FXXUXXR-24S	FDU 24 PORT Rack Mount - Sliding - Unloaded	NLU-FSSLSCR-12S	FDU 12 PORT Rack Mount - Sliding - Loaded (SC) SM
NLU-FXXUXXR-48S	FDU 48 PORT Rack Mount - Sliding - SUnloaded	NLU-FSDLSCR-24S	FDU 24 PORT Rack Mount - Sliding - Loaded (SC) SM
NLU-FMSLSCR-12S	FDU 12 PORT Rack Mount - Sliding - Loaded (SC) MM	NLU-FSSLLCR-12S	FDU 12 PORT Rack Mount - Sliding - Loaded (LC) SM
NLU-FMDLSCR-24S	FDU 24 PORT Rack Mount - Silding - Loaded (SC) MM	NLU-FSDLLCR-24S	FDU 24 PORT Rack Mount - Sliding - Loaded (LC) SM

FTTH Solution

FO Outlet

BOX Type Splitter

Optical Distribution Frame

PLC Splitter - Rack Mount

Tube Type Splitter

FTTH DROP CABLE

Outer Sheath

ARP
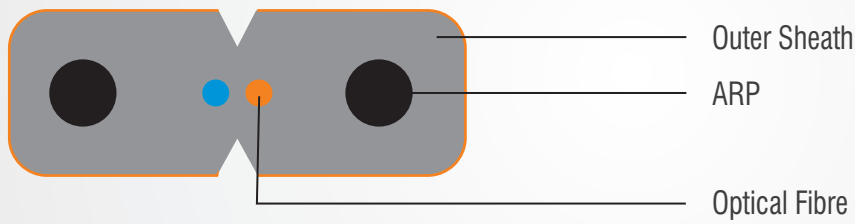
Optical Fibre

CABLE MECHANICAL CHARACTERISTICS

Tensile Strength	:	
Installation	:	100 N
Operation	:	50 N
Minimum Bending radius	:	20 mm
Crush Resistance	:	500N/ 100x100

CABLE CONSTRUCTION DETAILS

No. of Fibres	:	2F
Fiber Colour	:	Blue, Orange
Strength Member	:	ARP Rod - 2 Nos.
Sheath	:	Low Smoke Zero Halogen/PVC
Sheath Colour	:	Black

OPTICAL CHARACTERISTICS FOR G.652D FIBRES

Attenuation 1310nm	:	= 0.4 dB/Km
1550nm	:	= 0.3 dB/Km
Cable cut-offwavelength	:	= 1260nm
Mode Field Diameter@1310nm	:	8.2 - 9.4 µm

FIBRE GEOMETRY

Coating diameter	:	245 ± 10µm
Cladding Non-circularity	:	= 1 %
Cladding diameter	:	125 ± 1µm
Mode Field Concentricity error	:	= 0.8 µm

PHYSICAL CHARACTERISTICS

Cable Dimensions		
Width	:	3.1 ± 0.2 mm
Height	:	2 ± 0.2 mm
Nominal Cable Weight	:	9.5 Kg/km (Nominal)

Cable Size - 2 F
Standard Length - 1Km or 2 Km ± 10 %

ORDERING INFORMATION

Part Code	Description
NCB-FS09I- UFPV-02	2F Drop Cable for FTTH – PVC Type
NCB-FS09I- UFLS-02	2F Drop Cable for FTTH – LSZH Type

FO OUTLET

Fiber Optic Outlet is used in FTTH indoor application. It enables termination of fiber optic cables within residence and commercial buildings. The bend radius of the individual fibers does not fall below 15mm, thereby minimize the signal transmission losses.

KEY FEATURES

- Inner slack storage area ensures minimum bend radius
- Inner tray for splice sleeve
- Suitable for SC or LC connectors
- Compact size: Takes less wall space

SPECIFICATIONS

Size (L*W*H) (mm)	:	86*86*20
Adapter Type	:	SC, Duplex LC
No. of Adapter	:	2
Storage of Fibers	:	G.657 or G.652 fiber applied
Max. Cable Diameter (mm)	:	3 – 6
No. of Cable Entry	:	5(Up, down, left, right, rear)
Splice Method	:	Fusion Splice (40mm sleeve applied)
Color	:	White
Material	:	Impact Plastic

APPLICATIONS

Widely used in FTTH access Network

ORDERING INFORMATION

Part Code	Description
NFO-FXDXX02	Blank Outlet

OPTICAL DISTRIBUTION FRAME

D-Link Optical Distribution Frame Units are the cabinets used in interconnecting, cross-connecting, or splicing applications in LANs at a premise location.

The optical distribution frame (ODF) is modular and suitable for optical cable installation, bare fibers splicing & protection, pigtails storage & management. The number of fibers determines which ODF is appropriate for the application.

KEY FEATURES

- **High strength material**
- **Full components**
- **Easy to maintain and install**
- **Excellent seal performance**
- **Both burying and aerial are available**

SPECIFICATIONS For Tray

- Operation temperature : -40℃ to +45℃
- Pressure resistance : 70 to 106KPa
- Tensile force : 1000N(minimum value)
- Strength : 15KV(DC)/1 min, no flashover
- Relative humidity : 85%
- Return loss : PC(=45db) UPC(50=db)
- APC (=60db)
- 12 & 24 Ports
- Rack mount & wall mount
- High quality

ABS PLASTIC 24 CORES FIBER OPTIC SPLICE TRAY

Fiber optic splice trays are designed to provide a location to store and to protect the fiber cables and the splices. Fiber optic splice trays are located at intermediate points along a route where cables are required to be joined or at the termination and patch panel points at the end of fiber cable runs.

Splice trays normally hold up to 12 splices, and several trays are used together to splice a large fiber cable. Each tray provides space for mounting fiber splice protectors and excess fiber.

ORDERING INFORMATION

Part Code	Description
NDF-XXUSCA-24	Optical Distribution Frame with 24 SC ports
NDF-XXUSCA-48	Optical Distribution Frame with 48 SC ports
NDF-XXUSCA-96	Optical Distribution Frame with 96 SC ports
NDF-XXUSCA-144	Optical Distribution Frame with 144 SC ports

APPLICATION

- Telecommunications subscriber loop
- Fiber to the home (FTTH)
- LAN/WAN

PLC SPLITTER - RACK MOUNT

Planar Light Circuit (PLC) splitters exhibit uniform signal splitting for FTTH and PON network. It is fabricated using silica optical waveguide technology.

Splitters come with SC adapter. It meets GR-1209 and GR-1221 standard for performance and reliability

APPLICATIONS

- FTTX(FTTP, FTTH, FTTN, FTTC)
- Passive Optical Networks(PON)
- Local Area Networks (LAN)
- CATV Systems
- Test Equipment
- Monitoring system

SPECIFICATIONS

Parameter	1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64	2 x 2	2 x 4	2 x 8	2 x 16	2 x 32	2 x 64
Wavelength	1260-1650 (nm)											
Max. Insertion Loss (dB)	≥4.0/ ≥4.2	≥7.1/ ≥7.4	≥10.4/ ≥10.6	≥13.7/ ≥13.9	≥16.9/ ≥17.2	≥20.4/ ≥20.8	≥4.2/ ≥4.4	≥7.7/ ≥8.0	≥10.8/ ≥11.0	≥14.1/ ≥14.6	≥17.4/ ≥17.8	≥20.7/ ≥21.0
Max. Loss Uniformity (dB)	≥0.6	≥0.8	≥0.8	≥1.0	≥1.5	≥2.0	≥0.8	≥1.0	≥1.2	≥1.5	≥1.8	≥2.0
Max. PDL (dB)	≥0.2	≥0.2	≥0.3	≥0.3	≥0.3	≥0.4	≥0.2	≥0.2	≥0.3	≥0.3	≥0.3	≥0.4
Return Loss (dB)	≥50											
Directivity (dB)	≥55dB											
Pigtail Length (m)	1.2 (± 0.1), customer specified											
Fiber Type	Corning SMF-28e, customer specified											

ORDERING INFORMATION

Part Code	Description	Part Code	Description	Part Code	Description
NFS-FSSSC1- 2	1 x 2 PLC splitter	NFS-FSSSC1- 32	1 x 32 PLC splitter	NFS-FSSSC2- 8	2 x 6 PLC splitter
NFS-FSSSC1- 4	1 x 4 PLC splitter	NFS-FSSSC1- 64	1 x 64 PLC splitter	NFS-FSSSC2- 16	2 x 8 PLC splitter
NFS-FSSSC1- 8	1 x 8 PLC splitter	NFS-FSSSC2- 2	2 x 2 PLC splitter	NFS-FSSSC2- 32	2 x 32 PLC splitter
NFS-FSSSC1- 16	1 x 16 PLC splitter	NFS-FSSSC2- 4	2 x 4 PLC splitter	NFS-FSSSC2- 64	2 x 64 PLC splitter

PLC SPLITTER - TUBE TYPE

Planar Light Circuit (PLC) splitters exhibit uniform signal splitting for FTTH and PON network. It is fabricated using silica optical waveguide technology.

Splitters come with SC adapter. It meets GR-1209 and GR-1221 standard for performance and reliability.

KEY FEATURES

- **Quartz substrate integrated waveguard**
- **Good Uniformity and low insertion loss**
- **Low Polaration Dependent Loss**
- **Excellent Environmental Stability**
- **High Reliability**
- **Channel-to-Channel uniformity**
- **Small size**

APPLICATIONS

- FTTX(FTTP, FTTH, FTTN, FTTC)
- Passive Optical Networks(PON)
- Local Area Networks (LAN)
- Test Equipment
- Monitoring system

SPECIFICATIONS

Parameter	1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64	2 x 2	2 x 4	2 x 8	2 x 16	2 x 32	2 x 64
Wavelength (nm)	1260-1650											
Max. Insertion Loss (dB)	3.8/4.1	7.0/7.4	10.0/10.3	13.5/13.7	16.5/16.9	21	4.1/4.3	7.3/7.6	10.3/10.5	13.7/13.9	16.8/17.2	21.5
Max. Loss Uniformity (dB)	0.6	0.6	0.8	1.2	1.5	2.5	0.8	0.8	1.5	2.0	1.5	2.5
Max. PDL (dB)	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2	0.4	0.4	0.4	0.4
Return Loss (dB)	=50											
Directivity (dB)	=55											
Pigtail Length (m)	1.2 (± 0.1), customer specified											
Fiber Type	Corning SMF-28e, customer specified											
Operating Temperature (°C)	-40 - +85											

All measurements were done at room temperature and specifications exclude connectors

PLC SPLITTER - TUBE TYPE

ORDERING INFORMATION

Part Code	Description	Part Code	Description
NFS-FSSSC1-2-T	1 x 2 PLC splitter – Tube type	NFS-FSSSC2-2-T	2 x 2 PLC splitter – Tube type
NFS-FSSSC1-4-T	1 x 4 PLC splitter – Tube type	NFS-FSSSC2-4-T	2 x 4 PLC splitter – Tube type
NFS-FSSSC1-8-T	1 x 8 PLC splitter – Tube type	NFS-FSSSC2-8-T	2 x 8 PLC splitter – Tube type
NFS-FSSSC1-16-T	1 x 16 PLC splitter – Tube type	NFS-FSSSC2-16-T	2 x 16 PLC splitter – Tube type
NFS-FSSSC1-32-T	1 x 32 PLC splitter – Tube type	NFS-FSSSC2-32-T	2 x 32 PLC splitter – Tube type
NFS-FSSSC1-64-T	1 x 64 PLC splitter – Tube type	NFS-FSSSC2-64-T	2 x 64 PLC splitter – Tube type

BOX TYPE SPLITTER

Planar lightwave circuit (PLC) splitter is a type of optical power management device that distribute optical signals from Central Office (CO) to multiple premise locations.

The Box type design, can easily be placed into optical fiber distribution box, optical fiber junction box or many kind of box, which can reserve some space. It can be easily applied in FTTx construction, optical network construction, CATV networks and etc.

KEY FEATURES

- Low insertion loss. Low PDL and High reliability
- High return loss and Good repeatability
- Wide wavelength range
- Excellent channel-to-channel uniformity

APPLICATIONS

- LAN, WAN and Metro Networks
- FTTH project & FTTX deployments
- CATV System
- GPON, EPON
- Fiber Optic Test Equipment
- Database Transmit Broadband Net

SIZE

Item	1x2	1x4	1x8	1x16	1x32	1x64
Length x Width x Height (mm)	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x114x18

Item	2x2	2x4	2x8	2x16	2x32	2x64
Length x Width x Height (mm)	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x114x18

ORDERING INFORMATION

Part Code	Description	Part Code	Description
NFS-FSSSC1-2-B	1 x 2 PLC splitter – Box type	NFS-FSSSC2-2-B	2 x 2 PLC splitter – Box type
NFS-FSSSC1-4-B	1 x 4PLC splitter – Box type	NFS-FSSSC2-4-B	2 x 4 PLC splitter – Box type
NFS-FSSSC1-8-B	1 x 8 PLC splitter – Box type	NFS-FSSSC2-8-B	2 x 8 PLC splitter – Box type
NFS-FSSSC1-16-B	1 x 16 PLC splitter – Box type	NFS-FSSSC2-16-B	2 x 16 PLC splitter – Box type
NFS-FSSSC1-32-B	1 x 32 PLC splitter – Box type	NFS-FSSSC2-32-B	2 x 32 PLC splitter – Box type
NFS-FSSSC1-64-B	1 x 64 PLC splitter – Box type	NFS-FSSSC2-64-B	2 x 64 PLC splitter – Box type

FAST FIELD ASSEMBLY CONNECTORS
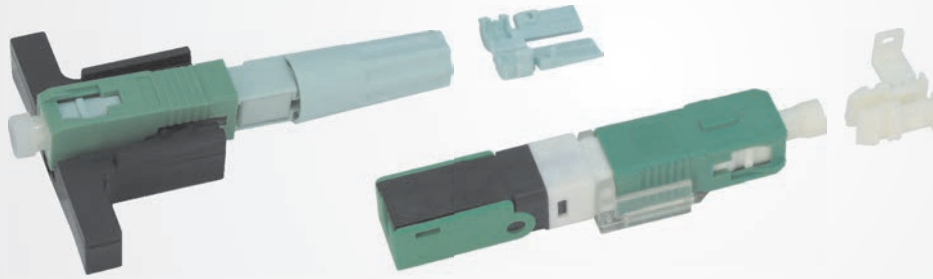
At D-Link, we adopt high precision equipment in fiber connector product line providing the highest

levels of reliability and performance.

KEY FEATURES

- Industry-leading double V groove alignment clamping mechanism.
- Applies to leather cabled fiber: H * W = 3 * 2m.
- Site installation can be completed within two minutes.
- Particularly suitable for FTTH and all kinds of complex applications.
- Lower requirements for the construction workers, construction of low scrap rate.
- Do not need to grinding, adhesive and power supply equipment .
- Can be reused.

PRODUCT INDICATORS

Item	Specifications	
Insertion Loss	Average = ≤0.3dB	Maximum:≤0.5dB
Return Loss	≥40dB(PC)	≥55dB(APC)
Tensile	≥30N	
Repeated Mating	≥500 times	
Operating Temperature	-40℃ ~ +85℃	

ORDERING INFORMATION

Part Code	Description
NCO-FSSSF09-APC	Fast Connector SM SC APC Type
NCO-FSSSF09	Fast Connector SM SC

The following glossary offers explanations for a number of terms used in this catalog. It additionally provides explanations for a number of other terms frequently used within the networking and cabling industries.

10BASE-T- 10 Mbps Ethernet using 2-pairs of Category 3 cable.
100BASE-T4- 100 Mbps Fast Ethernet using 4-pairs of Category 3 cable.
100BASE-TX- 100 Mbps Fast Ethernet using 2-pairs of Category 5 cable.
100VG-AnyLAN- 100 Mbps LAN using Demand Priority Protocol originally developed by Hewlett Packard and AT&Tfor Category 3 cable.
1000BASE-T- 1000 Mbps (1Gbps) Ethernet using 4-pairs of Category 5e cable.
1000BASE-TX- A low cost alternative to 1000BASE-T developed byTIA for Category 6 cabling.
1000BASE-SX- 1000 Mbps (1Gbps) Ethernet operating on multimode fiber with short wave lasers (850 nm).
1000BASE-LX- 1000 Mbps (1 Gbps) Ethernet operating on multimode fiber with long wave lasers (1300nm).
10GBASE-T- 10 Gbps Ethernet using 4-pairs of Category 6 or better cabling.
10GBASE-LR- 10 Gigabit Ethernet operating at long wavelength (1300nm) on singlemode optical fiber. 10GBASE-LR is the LAN version, 10GBASE-LW is the WAN version. Up to 10 Km reach.
10GBASE-LX4- 10 Gigabit Ethernet operating at long wavelength (1300nm) on multimode or singlemode optical fiber. Designed to overcome the imperfections of legacy multimode fiber, by utilizing 4 lasers and 4 detectors operating at different wavelengths. Up to 300 m reach on multimode, 10 Km on singlemode.
10GBASE-SR- 10 Gigabit Ethernet operating at short wavelength (850 nm) on laser optimized (OM3) multimode fiber. The lowest cost transceiver alternative, taking advantage of the advances in multimode fiber technology that eliminate the imperfections of legacy multimode. Up to 300m reach on laser optimized (OM3) multimode fiber (up to 550 m supported on enhanced OM3 fiber).

A
Alien Crosstalk-Signal coupling between adjacent cabling components (cables, connector) or between adjacent links or channels.
Application- A system, with its associated transmission method which is supported by telecommunications cabling.
Application Layer- The uppermost layer (layer7) of the open systems interconnection (OSI) model. This layer is concerned with support to the user application and is responsible for managing the communication between applications, e.g. Email, File transfer, etc.
Asynchronous-Two or more signals sourced from independent clocks, therefore having different frequency and phase relations.
Asynchronous Data Transfer- A method of data transfer in which each alphabetic or numeric character (represented by 7 or 8 bits) is preceded by 'start' and 'stop' bits to delineate the 7/8 bit pattern from the ideal pattern which otherwise occupies the (digital) transmission medium.
Asynchronous Transfer Mode (ATM)- A high-speed cell-based switching and multiplexing technology based on segmentation of voice, data and video into fixed packets (cells).These cells are transferred along switched paths and are not received on a regular basis (hence the term asynchronous).
Attenuation- The effect of signal dwindling, experienced with accumulating line length or distance or radio transmission.

B
Backbone(s)- The part of a premises distribution system that includes a main cable route and facilities for supporting the cable from the equipment room to the upper floors, or along the same floor to the wiring closets.
Balanced Twisted Pair Cable- A cable consisting of one or more metallic symmetrical cable elements (twisted pairs or quads).
Bandwidth- The range of frequencies that can be used for transmitting information on a channel. It indicates the transmission-carrying capacity of a channel. Thus, the larger the bandwidth, the greater the amount of information that can pass through the circuit. Measured in hertz or bits per second or Mhz-Km (for fiber).
Bit Error Rate (BER)- A measure of quality of a digital transmission line, either quoted as a percentage, or more usually as a ratio, typically 1 error in 10E8 or 10E9 bits carried. The lower the number of errors, the better the quality of the line.
Building Backbone Cable- A cable that connects the building distributor to a floor distributor. Building backbone cables may also connect floor distributors in the same building.
Building Distributor- A distributor in which the building backbone cable(s) terminate(s) and at which connections to the campus backbone cable(s) may be made.
Building Entrance Facility- A facility that provides all necessary mechanical facility and electrical services, that complies with all relevant regulations, for the entry of telecommunications cables into a building.
BUS- Consists of a common transmission path with a number of nodes attached to it. Sometimes referred to as linear network topology.

C
Cabling- A system of telecommunications cables, cords and connecting hardware that can support the connection of information technology equipment.
Campus- A premises containing more than one building adjacent or near to one another.
Campus Backbone Cabling- A cable that connects the campus distributor to the building backbone distributor(s). Campus backbone cables may also connect building distributors directly.
Category 3- Industry standard for cable and connecting hardware products with transmission characteristics specified to 16 MHz, designed to support digital transmission of 10 Mbps.
Category 5- Industry standard for cable and connecting hardware products with transmission characteristics specified to 100 MHz, intended to support digital transmission of 100 Mbps.
Category 5e- Enhanced Category 5 specifications for cable and connecting hardware products with transmission characteristics specified to 100 MHz, intended to support digital transmission of 1000 Mbps.
Category 6- Industry standard for cable and connecting hardware products with transmission characteristics specified to 250 MHz, designed to support digital transmission in excess of 1000 Mbps.
Category 6A- Industry standard for cable and connecting hardware products with transmission characteristics specified to 500 MHz, designed to support digital transmission of 40 Gbps.
CENELEC- European committee for electrotechnical standardization.
CENELEC En50173- The European standard for generic cabling for customer premises.

CENELEC En50174- A proposed European cabling systems planning & installation standard being developed byCENELEC.
Channel- The end-to-end transmission path connecting any two pieces of application-specific equipment. Equipment cables and work area cables are included in the channel.
Consolidation Point- An interconnection point in horizontal cabling, typically used to support the re-arrangement of furniture cloisters.
Cross-connect- A facility enabling the termination of cable elements and their connection, primarily by means of patch cords or jumpers.
Crosstalk- An electromagnetic coupling between two physically isolated circuits in a system. This coupling causes a signal on one circuit to induce a noise voltage on adjacent circuits, thereby causing signal interference.

D
Decibel (dB)- A unit used to measure relative increase or decrease in power, voltage or current, using a logarithmic scale.
Digital Transmission- A technique in which all information is converted into binary digits for transmission.
Distributor- The terms used for the functions of a collection of components (i.e. patch panels, patch cords) used to connect cables.

E
EIA/TIA- North American Standards organization.
EIA/TIA 568B- North American commercial building telecommunications wiring standard.
Ethernet- A LAN originally developed by DEC, Xerox and Intel. It used the CSMA/CD protocol.

F
Fast Ethernet- A 100 Mbps LAN based on CSMA/CD protocol. See 100BASE-T.
Fiber- See Optical Fiber.
Fiber Channel- This is an ANSI standard describing point to point and switched point to point physical interface, transmission protocol, signaling protocol, services and command set mapping of a high performance serial link for uses between mainframe computers and computer peripherals.
Fiber Distributed Data Interface (FDDI)- An American National Standards Institute standard for fiber-based token passing access protocol that operates at a 100 Mbps data transfer rate.
Foil Screened Twisted Pair Cable (FTP)- A cable that uses a metallic foil to surround the conductors in a twisted pair cable.
Full Duplex- Simultaneous two-way communication on the same link or cabling channel.
Full Duplex Ethernet- Full duplex Ethernet allows nodes to transmit and receive data at the same time, doubling throughput between work-station and switch.

G
Generic Cabling- A structured telecommunications cabling system, capable of supporting a wide range of applications. Generic cabling can be installed without prior knowledge of the required applications. Application-specific hardware is not a part of generic cabling.

H
Half Duplex- Two-way transmission on a single link or cabling channel, one direction at a time.
Horizontal Cable- A cable connecting the floor distributor to the telecommunications outlet(s).
Horizontal Subsystem- The part of the premises distribution system installed on one floor that includes the cabling and distribution components connecting the riser backbone or equipment wiring to the information outlet.
Hub- A concentrator or repeater in a star topology at which node connections meet.
Hybrid Cable- An assembly of two or more different types of cable units, cables or categories covered by an overall sheath. It mat be covered by an overall shield.

I
IEC 60332- The international standard covering fire performance of cables.
IEEE- Institute of Electrical and Electronic Engineers in the USA. This organization is also involved in producing Local Area Network standards such as Ethernet.
Individual Pair Screened- Where each twisted pair in one overall cable has its own screen.
Integrated Services Digital Network (ISDN)- Integrated voice and data network based on digital communications technology and standards interfaces.
Intelligent Buildings- Buildings that maximize the efficiency of its occupants and allow effective management of resources with minimum of resources with minimum life-time costs (Source: European Intelligent Building Group).
Interconnect- A location at which equipment cables are terminated and interconnected to the cabling subsystems without using a patch cord or jumper.
Interference- A signal impairment caused by the interaction of another unwanted signal.
ISO- International Standards Organization.
ISO/IEC IS 11801- The international standard for generic cabling for customer premises.
ISO/IEC 14763-1- The international standard for generic cabling.

L
Local Area Network(s) (LANs)- A LAN allows users to share information and computer resources. Typically a local area network is limited to a single building.

M
Multimedia- A means of conveying information with components in different media such as voice, music, text, graphics, image and video.

Multimode Fiber- Optical fibers that have a large core and that permit non-axial rays or modes to propagate through the core.

N
Network Architecture- Network topology and design.
Network Interface Cards (NICs)- The piece of equipment that is installed into the expansion port of a personal computer and allows communication between the PC and the network.
Network Layer- The network layer is layer 3 of the OSI mode. This layer sets up an end-to-end connection across a network determining which permutation of individual links to be used.Thus the network layer performs overall routing functions.
Node(s)- A piece of communications equipment on the network.
Noise- The term used for spurious signals produced in a conductor by sources other than the transmitter to which it is connected. Noise can affect a legitimate signal to the extent that it is inaccurate or indecipherable when it reaches the receiver. The higher the speed of data transmission, the worse the effects of noise become.

O
Open System Interconnection (OSI)- A conceptual model specified by CCITT recommendations in the X200 series. The model describes the 7-layer process of communication between co-operating computers. The model provides a standard for the development of communication protocols allowing for computers of different manufacturers to be interconnected.

Optical Fiber- A transmission medium consisting of a core of glass or plastic surrounded by a protective cladding. Signals are transmitted as light pulses, introduced into the fiber by a light transmitter (i.e. Laser or an LED).

Outlets- A term used to describe the sockets provided in the work location of a structured cabling system. These are usually 8-pin modular sockets which can support a variety of services (i.e. voice, video and data).

P

Patch Cord(s)- Flexible cable unit or element with connector(s), used to establish connections on a patch panel.

Patch Panel(s)- Termination and administration hardware designed to accommodate the use of patch cords. It facilitates administration for moves and changes.

Pathway(s)- Designated cable routes and/or support structures on a false floor or ceiling. Peripheral(s)- Additions to a system, a resource (i.e. printer, scanner, etc.)

Permanent Link- The transmission path between two mated interfaces of generic cabling, excluding equipment cables, work area cables and cross-connections.

Physical Layer- Layer 1 of the open systems interconnection (OSI) model. The physical layer protocol is the hardware and software in the line terminating device which converts the data bits needed by the datalink layer into the electrical pulses, modern tones, optical signals or other means which will transmit the data.

Physical Topology- Physical cabling layout (i.e. ring, bus, star wired etc.)

Ports- A computer interface capable of transmitting and or receiving information.

PowerSum- A method of testing and measuring crosstalk in multi-pair cables that accounts for the sum of crosstalk affecting a pair when all other pairs are active. This is the only method of specifying crosstalk performance that is suited to cables with more than four pairs.

Protocol(s)- Systems that are not standards specific and therefore are not interoperable with standards based equipment.

R

Raceway- Any distribution method designed for holding cables, (i.e. conduit, metal or plastic trunking, cable trays, etc.)

Redundancy Risers- A fail-safe method of splitting and routing riser/backbone cabling via two or more riser cores. Also known as diverse routing.

Riser(s)- The term used to describe a space utilized by backbone cabling to house communications cabling and other building services. This space should preferably be specified, or allowed for, at the time of the building design.

Router(s)- An intermediate system between two or more networks capable of forwarding data packets at the networks layer (layer3).

S

Screened Cable- See foil screened twisted pair cable.

Simplex- A transmission means allowing only one direction of transmission. (i.e. public broadcast radio.)

Singlemode- Optical fiber with a small core diameter in which only singlemode is capable of propagation, 8.3 micron is the common standard core size.

Splice- A joining of conductors or fibers, generally from separate cables.

Star- A physical point to point network topology.

Structured Cabling- Flexible cabling scheme which allows rapid reconfiguration for office moves through patching.

Switching- A function carried out by a switching hub, alleviating traffic by making virtual connections between transmitting and receiving nodes.

Synchronization- The method by which the bit patterns appearing on digital line systems may be properly clocked and interpreted — allowing the beginning of particular patterns and frame formats to be correctly identified.

Synchronous- Signals that are sourced from the same timing reference and hence are identical in frequency.

T

Telecommunications- A branch of technology concerned with the transmission, emission and reception of signals, writing, images and sounds; that is, information of any nature by cable, radio, optical or other electromagnetic systems.

Telecommunications Closet- An enclosed space for housing telecommunications equipment, cable terminations, and cross-connect cabling. The telecommunications closet is a recognized cross-connect point between the backbone and horizontal cabling subsystems.

Telecommunications Outlet- A socket where the horizontal cable terminates. The telecommunications outlet provides the interface to work area cabling.

Token Ring- The transmission medium used for IEEE 802.3 10BASE-2LANs. It is a 50 ohm thick coax cable (commonly referred to as Cheaper Net). It is a 50 ohm thin coax cable.

Topology- The physical or logical configuration of a telecommunications system.

Twisted Pair(s)- A cable element conducting cable comprising one or more pairs none of which is shielded.

V

VCSEL- Vertical Cavity Surface Emitting Laser.

Video Conferencing- Real time communications via video between two or more users at separate locations.

W

Wide Area Networks (WANS)- Networks that are linked across a large geographical area generally using leased lines from a public operator.

Wireless LAN- Local area network that communicates using radio technology.

Work Area- A building space where the occupants interact with telecommunications terminal equipment. A user's work area which is typically 9 sq. meter or 100 sq. ft.

Work Area Cable- A cable connecting telecommunications outlet to the terminal equipment.

The D-Link environmental policies show its commitment for building an evolutionary and sustainable world. The recognition of this conduct came with achievements such as the Certificate of ISO 14001:2015 for Environmental Management granted by SGS United Kingdom Ltd. to the industrial unit.

Good examples are the waste management that contributes for products and raw materials recycling and the LSZH (Low Smoke Zero Halogen) or LSOH cables which contribute to the low emission of toxic gases and smoke.

D-Link Corporation has been assessed and certified as meeting the requirements of ISO 9001:2015 & ISO 14001:2015.

ROHS COMPLIANT

The European RoHS directive restricts the use of certain hazardous substances in electrical and electronic equipments and stimulates the reuse of products and determines a proper management, with the objective to improve the effectiveness of the environmental protection by reducing the amount of industrial waste and the risk of the components.

D-Link meets the RoHS requirement for the entire line of structured cabling.

http://www.dlink.com

D-Link has many cabling certificates to show the product quality.
They come from UL, ETL, CE/CPR certificates and EC Verified Program in Europe.
D-Link is the professional manufacturer awarded these certification in Asia.

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Installation Medium (copper/Fiber): **XXX XXXX**
DCCE Registration No.: **XXXXXX**

Authorized Signatory

Raj Jadhav
VP- Consulting, Support & IT

Issue date: **XX XXXXX XXXX**
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D-Link Certified Cabling Expert' (DCCE) program has been established with the objective of imparting enhanced knowledge on structured cabling to the engineers & technicians of its System Integrators.

The 2 day DCCE program is conducted by a team specializing in structured cabling domain from D-Link, who offer participant with in-depth information on the technical aspect of the subject, evaluate trends for both Copper and Fiber products, and train them to design, install & also conduct post implementation testing of D-Link passive networking components for Infrastructure Projects.

On the very first day, participants were introduced to Copper cabling and covered topics like Information transportation system, Evolution of structured cabling, Basic concepts of topology, SCS standards, Categories of copper cables, Field testing & Installation requirements along with practical's. While on the second day, the focus is on Fiber cabling and it covers topics like Basics of optical fiber, Fiber theory & hands-on, Key definitions, Different types of fiber cables, Fiber cable construction, Fiber optic components & OFC cabling considerations.

After the 2 day program, participants have to undergo an exam, and once certified as DCCE they will be in a position to validate projects wherein D-Link structured cabling products are implemented, with 25 years performance warranty.

To register for the DCCE certification program, participants can log on to http://www.dlink.com
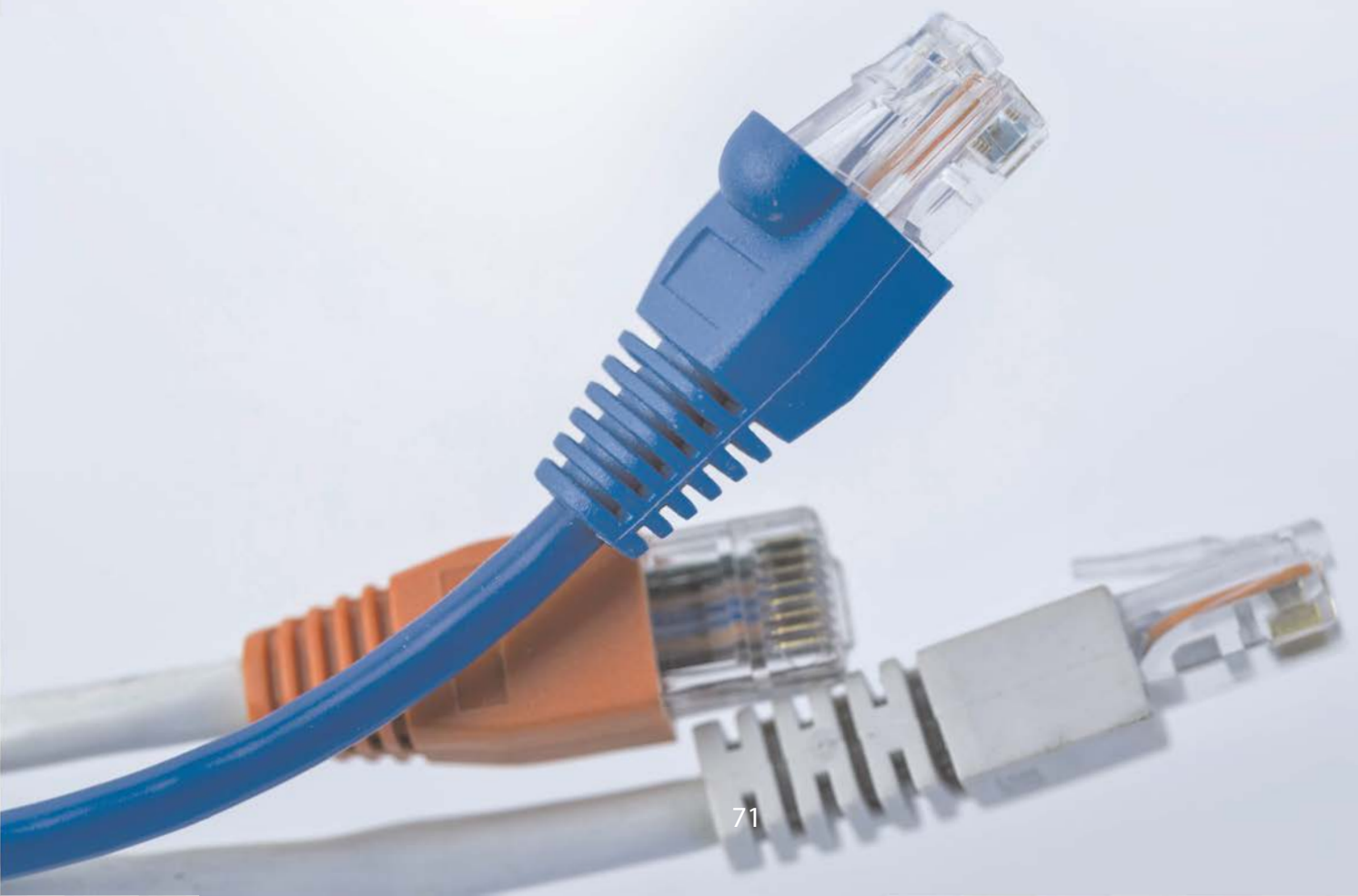
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