





OUTSIDE PLANT

LOOSE	LOOSE BUFFER TUBE FIBER OPTIC CABLE											
FIBER COUNT	1 - 432		DIA	METER RANGE		0.40 in -	0.80 in /10.1 mm - 20	0.4 mm	FIBER COATING	250µm or 200µm		
CABLE DE	SIGN OPTIC	ONS	cc	ONSTRUCTIO	ON APP	LICAT	TIONS					
JACKET	Polyethylene, Layers.	UV Rated. 1-2	AERI	Lashed construction, unless designed with integrated me ger (Figure-8) or ADSS.								
ARMOR	Corrugated st Armor. 1-2 Lay		UND	DERGROUND	Pulled or blown (jetted) into conduit. May be direct buried if armored.						<u> </u>	
STRENGTH MEMBE	R Central Fiberg	lass Rod	IN B	UILDING	May install	within 50) feet of building entra	nce.		-000000		
GROUPING	12F per Tube	Typical	HAR	SH ENVIRONMENT			sh environments such a lear or chemical faciliti					
WATER BLOCKING	Dry Core/Gel Tube	or Dry Buffer	GEN	ERAL USES	Terrestrial drop.	Terrestrial network core, metro access, lateral and minimal drop.			OPTICAL FIBER TYPES	Singlemode & Multir Multiple Grades	node	
BRAND NAMES/	CORNING	PRYSMIAN		SUPERIOR ESSEX	COMMSCOPE AFL TELDOR			OFS	STERLITE	CANYON		
SERIES	Altos	ExpressLT/Flex Link	X-	Series 11/1G/12/1C	D-LA/D-LN/D-L2 LE Series LD Series			DryBlock/Fortex DT	Duct-LITE/ Armor-LITE	GYFS/GYFY53/ GYFY5353		

MICROE	OUCT LO	OSE BU	FFER TUB	E FIBER	OPTIC CAB	LE			
FIBER COUNT	1-288/432		DIAMETER RANGE	0.29	9 in - 0.496 in/7.6mm - 1	2.6mm	FIBER COATING	250µm or 200µm	
CABLE DES	SIGN OPTIC	ONS	CONSTRUCT	ION APPLIC	ATIONS				
JACKET	Polyethylene, duced Thickne	UV Rated Re- ess Single Layer	AERIAL	May be blown (jetted) into aerial duct that is self-suppor					
ARMOR	Not available		UNDERGROUND	Designed to be for direct burial.	olown (jetted) into Microc	luct Pathways. Not			200
STRENGTH MEMBER	Central Fiberg	lass Rod	IN BUILDING	May install withi	n 50 feet of building entra	ance.			
GROUPING	12F - 24F Per	Tube Typical	HARSH ENVIRONMENT		harsh environments such nuclear or chemical facilit				
WATER BLOCKING	Dry Core, Prin Tube	narily Gel Buffer	GENERAL USES		Terrestrial network core, metro access, lateral and minimal drop. Preferred product for override applications.			Singlemode & Multin Multiple Grades	node
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOPE	COMMSCOPE AFL TELDOR			STERLITE	CANYON
SERIES	MiniXtend	ezMICRODUC	LT Series	B-LN	B-LN MicroCore FTX Series			Micro-LITE	GCYFY

CENTR	CENTRAL TUBE FIBER OPTIC CABLE											
FIBER COUNT	1-24		DIAMETER RANGE	0.3	35 in - 0.41 in/8.8mm - 10.3	mm	FIBER COATING	250μm				
CABLE DE	ESIGN OPTIC	ONS	CONSTRUCTION	ON APPLI	CATIONS							
JACKET	Polyethylene L Layers.	JV Rated. 1-2	AERIAL									
ARMOR	Corrugated ste Armor. 1-2 Lay		UNDERGROUND	Pulled or blown (jetted) into conduit. May be direct buried if armored.								
STRENGTH MEMB	ER Central Aramic or Steel	d or Radial FRP	IN BUILDING	May install wit	thin 50 feet of building entra	nce.						
GROUPING	Single tube		HARSH ENVIRONMENT		or harsh environments such s, nuclear or chemical faciliti							
WATER BLOCKING	Gel or Dry Tub	ne e	GENERAL USES	Lateral and Dr assemblies.	rop applications as well as C	ATV node	OPTICAL FIBER TYPES	Singlemode & Multimode Multiple Grades				
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOPE AFL TELDOR		OFS	CANYON					
SERIES	FREEDM Central Tube	ezMICROTUNI- TUBE/CentraLin	Sarias 513/525	O-CN/O-CA Uniflex SL Series			Mini C2	GYXW				

OUTSIDE PLANT

RIBBON	IBBON IN CENTRAL TUBE FIBER OPTIC CABLE											
FIBER COUNT	12 - 432		DIAMETE	R RANGE	0).50 in -	0.90 in/12.6mm - 22.	9mm	FIBER COATING	250µm		
CABLE DES	SIGN OPTIC	ONS	CONS	TRUCTI	ON APPL	LICAT	IONS					
JACKET	Polyethylene I	UV Rated.	AERIAL	Lashed construction. Coupling loops are typically required for central tube ribbon.								
ARMOR	Corrugated st Armor.	eel tape Lite	UNDERGRO	DUND	Primarily des buried if arm		or pulling into conduit,	and may be direct				
STRENGTH MEMBER	Radial Fibergla Rod Pair	ass or Steel	IN BUILDIN	G	May install w	vithin 50	feet of building entra	nce.		7		
GROUPING	12, 24 or 36 F Matrices	Fiber Ribbon	HARSH EN	/IRONMENT			h environments such a ear or chemical faciliti					
WATER BLOCKING	Dry or Gel Cer	ntral Tube	GENERAL U	ISES	Terrestrial ne	etwork c	ore and metro access	networks.	OPTICAL FIBER TYPES	Singlemode Multiple	Grades	
BRAND NAMES/	CORNING	PRYSMIAN	SUPE	SUPERIOR ESSEX COMMSCOPE AFL TELDOR			OFS	STERLITE	CANYON			
SERIES	SST	FusionLink	Serie	s R1D/R2D	None	None None None			AccuRibbon	Ribbon-LITE	GYDXTP/ GYDXTW	

RIBBO	RIBBON IN LOOSE TUBE FIBER OPTIC CABLE											
FIBER COUNT	432 - 1728		DIAMETER RANGE	0.84	in - 1.38 in/21.3mm - 35.	.1	FIBER COATING	250µm				
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION	ON APPLIC	ATIONS							
JACKET	Polyethylene I	UV Rated.	AERIAL	Lashed construc								
ARMOR	Corrugated st Armor.	eel tape Lite	UNDERGROUND	Pulled or blown armored.	jetted) into conduit. May	be direct buried if						
STRENGTH MEMB	ER Central Fiberg	lass Rod	IN BUILDING	May install withi	n 50 feet of building entra	ance.	\ 	- January				
GROUPING	12 or 24 Fiber Matrices	r Ribbon	HARSH ENVIRONMENT		narsh environments such nuclear or chemical facilit							
WATER BLOCKING	Dry Core, Dry	or Gel Tube	GENERAL USES	Terrestrial netwo	Terrestrial network core and metro access networks.			Singlemode Multiple	Grades			
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOPE AFL TELDOR			OFS	STERLITE	CANYON			
SERIES	RocketRibbon 1728 3456	MassLink	Series S2	None	None None None			Ribbon-LITE Multitube	GYDHTY/ GYDHTS			

ULTRA	JLTRA HIGH FIBER COUNT ROLLABLE TYPE RIBBON											
FIBER COUNT	144-864 1152/1728/34	56/5184/6912	DIAMETE	R RANGE			0.41 in - 1.182 ir 1.34 in	n / 1.32 in /	FIBER COATING	250μm or 200μm		
CABLE DI	ESIGN OPTIC	ONS	CONS	TRUC	TIOI	N APPLICAT	IONS					
JACKET	ACKET Polyethylene UV Rated.				Lash	ed construction.						
ARMOR	Corrugated ste	UNDERGRO	DUND	Pulled or blown (jetted) into conduit. May be direct buried if armored.			e direct buried					
STRENGTH MEMB	Varies by man radial designs.	ufacturer. Central o	r IN BUILDIN	G	May	install within 50 feet	of building entrand	ce.				
GROUPING	count. Slotted	ufacturer and fiber core, buffer tube nders available.	HARSH EN	HARSH ENVIRON- MENT		Not suitable for harsh environments such as steam tunnels, mines, airports, nuclear or chemical facilities.						
WATER BLOCKING	G Dry only.		GENERAL USES Data center interconnect and head end upgrades. Could also be for major terrestrial capacity.									
	AFL SUMITOMO			CORNING PRYSMIAN		AN OFS STERLITE		140125				
BRAND NAMES/ SERIES	The Cold Branch Cold					AccuTube+ Rollable Ribbon	le Colesta slotted core de			mongst suppliers. Sumitomo uses pred binders for subgroup identification.		

OUTSIDE PLANT

ALL DIELECTRIC SELF SUPPORTING ADSS FIBER OPTIC CABLE											
FIBER COUNT	6 - 432		DIAMETER RANGE	Var	ies greatly by design		FIBER COATING	250µm			
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTI	ON APPLI	CATIONS						
JACKET	Polyethylene Track-Resistar		AERIAL	Stringing aeria	I construction method.						
ARMOR	Not available		UNDERGROUND	Can be used u do so.	nderground, but not price a	dvantageous to					
STRENGTH MEMBER	Aramid (Kevla Central Fiberg	ar) cabled with glass Rod	IN BUILDING	May install with	nin 50 feet of building entra	ince.					
GROUPING	12F per Buffe	r Tube Typical	HARSH ENVIRONMENT		r harsh environments such , nuclear or chemical facilit			TANK!			
WATER BLOCKING	Dry core, Gel	Tube	GENERAL USES		For installation in the secondary and primary space on utility poles. Primarily for core network and metro access.			Singlemode & Multir Multiple Grades	node		
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOPE AFL TELDOR			OFS	STERLITE	CANYON		
SERIES	SOLO	ezSPAN/ADSS Long Span	ADSS 100/200/400	None MiniSpan/Flex- Span/Standard ADS Series			PowerGuide	Aerial-LITE	ADSS		

FLAT D	FLAT DROP FIBER OPTIC CABLE												
FIBER COUNT	1 - 24		DIAMETER RANGE	0.1	8 in x 0.40 in max w/ tone	wire	FIBER COATING	250µm					
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION	ON APPLI	CATIONS			ζ,	1				
JACKET	Polyethylene l	UV Rated.	AERIAL	Self supporting helical attachm	cable using wedge deader ents.			1					
ARMOR	Not available, with tone wire	but is available	UNDERGROUND	Suitable for direct burial or installation in conduit.					1				
STRENGTH MEMB	ER Radial Fibergla	ass Rod	IN BUILDING	May install with	nin 50 feet of building entra	ance.			1				
GROUPING	Up to 24F per	Tube	HARSH ENVIRONMENT		harsh environments such , nuclear or chemical facilit								
WATER BLOCKING	Gel Buffer Tub	pe	GENERAL USES		Access network connections. Laterals and drops to the demarcation point.			Singlemode & Multin Multiple Grades	mode				
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOP	E AFL	TELDOR	OFS	STERLITE	CANYON				
SERIES	SST-Drop/ROC Drop	ezDROP/ResiLink	k Series 6/W7x	DF/DF/LC	None	None	Mini LT	Drop-LITE	FLATDROP				

AIR BLC	AIR BLOWN FIBER OPTIC CABLE											
FIBER COUNT	1-24 Primary	TiniFiber to 144F	DIAMETER RANGE	3r	mm - 13mm		FIBER COATING	250µm				
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION	ON APPL	ICATIONS							
JACKET	Polyethylene, or Polybutyler	Polymer, Acrylite ne	AERIAL	Lashed install with messeng	llation or blown into aerial su ger.	pport microduct						
ARMOR	ARMOR Only available with TiniFiber UNDERGROUND Blown into microducts											
STRENGTH MEMBE	Kevlar, Fiberg	lass rod or none.	IN BUILDING	May install wi an FR version	vithin 50 feet of building entra n.	ance unless using	1					
GROUPING	Varies by mar	nufacturer	HARSH ENVIRONMENT Not suitable for harsh environments such as steam tunnels, mines, airports, nuclear or chemical facilities.									
WATER BLOCKING	Most have no except AFL ar		GENERAL USES		Last mile or campus, enterprise, commercial or industrial builds. Could also use for laterals and drops.			Singlemode & Multimode Multiple Grades				
BRAND NAMES/	BELDEN PPC	PRYSMIAN	AFL	OFS TINIFIBER SUMITOMO			STERLITE	CANYON				
SERIES	Miniflex	Sirroco	irroco MicroDrop AccuBreeze FX Micro Armored FutureFLEX			FutureFLEX	Atlas-LITE	13 Micro Unitube				

PREMISE CABLING

INDOOR	NDOOR/OUTDOOR LOOSE TUBE FIBER OPTIC CABLE											
FIBER COUNT	1-288 (Plenun	n max 144)	DIAMETER RANGE	0.	.40 in - 1.20 in (10.2mm - 30).5mm)	FIBER COATING	250µm				
CABLE DES	SIGN OPTIC	ONS	CONSTRUCTI	ON APPL	ICATIONS							
JACKET	Flame retarda Polyvinyl Base	int, UV-Resistant ed.	AERIAL	Aerial lashed	construction.							
ARMOR		options. Steel ocking available.	UNDERGROUND	Pulled or blov armored.	wn (jetted) into conduit. May	be direct buried if						
STRENGTH MEMBER	Central Fiberg	lass Rod	IN BUILDING		use inside the building past rated jacket (LSZH, plenum							
GROUPING	12F per Tube	Typical	HARSH ENVIRONMENT		ptions are not designed for he ed types are available in this							
WATER BLOCKING	Dry or gel opt	ions available	GENERAL USES		loop access network and ser us environments.	vice drop applica-	OPTICAL FIBER TYPES	Singlemode & Multimode Multiple Grades				
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOPE AFL TELDOR			OFS	CANYON				
SERIES	Freedm	ExpressLT/ CampusLink	Series 13/13i	R-OD/P-OE LZ/P-LZ	IV Series	LD Series	OPTION 1 DT/ PlenumXcel	GYFY/GYFS/LSZH				

TIGHT E	IGHT BUFFERED DISTRIBUTION FIBER OPTIC CABLE											
FIBER COUNT	2-144		DIAMETER RANGE	0.19	in - 1.19 in (4.8mm - 30.	2mm)	FIBER COATING	900µm				
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION	ON APPLIC	ATIONS							
JACKET	Flame Retarda Plenum or Ris		AERIAL	Not designed for in aerial conduit	use in aerial construction if necessary.	n, but could be run						
ARMOR	Interlocking a Limitations on	rmor available.	UNDERGROUND May be used in conduit. Not economical over long distances.									
STRENGTH MEMBI	ER Kevlar/Aramid	l Strands	IN BUILDING		e in-building with the appostalled (plenum or riser).	ropriate flame rating						
GROUPING	Stranded, sing Subunits in la	gle unit with 12F rger designs	HARSH ENVIRONMENT		ns are not designed for h ypes are available in this			JAM .				
WATER BLOCKING	None		GENERAL USES		In building trunking, fiber termination back plane interconnect. 900µm tight buffer suitable for direct termination.			Singlemode & Multir Multiple Grades	mode			
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	COMMSCOPE	AFL	TELDOR	OFS	STERLITE	CANYON			
SERIES	MIC	ezDISTRIBUTIO	N Series 43/44/ L3/L4	Distribution	Multi-Unit CPC (CR/CP Series)	MT Series	ACCUMAX	Tight Buffer	15			

MICRO	MICRO DISTRIBUTION FIBER OPTIC CABLE											
FIBER COUNT	1-144		DIAMETER RANGE	0.	08 in - 0.70 in (2mm - 17.9n	nm)	FIBER COATING	250μm				
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION	ON APPL	ICATIONS							
JACKET	Flame Retarda Plenum or Ris		AERIAL		for use in aerial construction luit if necessary.	n, but could be run						
ARMOR	Interlocking a	cking armor available UNDERGROUND May be used in conduit. Not economical over long distances.					MICRO DISTRIE					
STRENGTH MEMB	ER Kevlar/Aramid	Strands	IN BUILDING	Designed for use in-building with the appropriate flame rating for where it is installed (plenum or riser).		LAF MOTE AND						
GROUPING	Stranded sing Subunits in so		HARSH ENVIRONMENT		otions are not designed for hed types are available in this							
WATER BLOCKING	None		GENERAL USES	In building tru	In building trunking, fiber termination back plane interconnect.							
BRAND NAMES/			SUPERIOR ESSEX	AFL	OFS	CANYON	OPTICAL FIBER	Singlemode & Multimode				
SERIES			Sub-Unitize MicroCore	ΔccuPack	6	TYPES	Multiple Grades					

PREMISE CABLING

RIBBON	I FIBER I	DISTRIB	UTION CAE	BLE					
FIBER COUNT	12-432/576/8	64/1728	DIAMETER RANGE	0.5	8 in - 1.12 in (14.7mm - 28.	5mm)	FIBER COATING	250μm	
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION APPLICATIONS						
JACKET	Flame Retardant LSZH, Plenum or Riser. UV in I/O.		AERIAL	Indoor/outdoor conduit.	versions may be lashed or	run in aerial			
ARMOR	Interlocking armor available UNDERGROUND May be installed in conduit.								
STRENGTH MEMBE	Central or Rac Rod or Streng		IN BUILDING		se in-building with the appronstalled (plenum or riser).	opriate flame rating	-		
GROUPING	12F and 24F F or 12F Rollabl	Ribbon Matrices e Ribbons	HARSH ENVIRONMENT	Not designed for harsh environment applications outside of flame rated/LSZH ratings.					
WATER BLOCKING	ER BLOCKING None unless indoor/outdoor. GENERAL USES		GENERAL USES	Indoor trunking or backbone in central offices, large scale enterprise and data centers.					
BRAND NAMES/	CORNING PRYSMIAN		SUPERIOR ESSEX	SUMITOMO	AFL	TELDOR	OFS	OPTICAL FIBER	Singlemode &
SERIES	UltraRibbon Indoor	COLink RCLT	Ribbon Distri- bution	PureRibbon a Freeform Ribb		None	AccuFlex and AccuRiser	TYPES	Multimode Multiple Grades

BREAK	DUT DIST	TRIBUTI	ON FIBER (OPTIC C	CABLE			
FIBER COUNT	2 - 36/48/72		DIAMETER RANGE	0.2	29 in - 0.98 in (7.4mm - 24.	.9mm)	FIBER COATING	900µm in 1.2/1.6/2/3mm Single Units
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION	ON APPLI	CATIONS			
Flame Retardant LSZH, Plenum or Riser.			AERIAL	Not suitable fo	or aerial construction.			
ARMOR	RMOR None offered		UNDERGROUND	Not economica	Not economical for underground construction.			
STRENGTH MEMBE	R Kevlar/Aramid	d Strength Yarns	IN BUILDING		Designed for use in-building with the appropriate flame rating for where it is installed (plenum or riser).			
GROUPING	Single up-jack	keted units.	HARSH ENVIRONMENT		for harsh environments out al designs are similar to this			
WATER BLOCKING	CKING None		GENERAL USES		ng cables with direct termin tching applications.	ations for use in		
BRAND NAMES/	CORNING	PRYSMIAN	SUPERIOR ESSEX	AFL	TELDOR	OFS	OPTICAL FIBER	Singlemode & Multimode
SERIES	Fan-Out ezBREAKOU		Breakout OFNR	Breakout Ca (BR/BP Serie	SI) Series	MiniCord/ MicroCord	TYPES	Multiple Grades

INTERC	ONNECT	FIBER C	PTIC COR	DAGE					
FIBER COUNT	1 or 2		DIAMETER RANGE	1.2n	1.2mm/1.6mm/2mm/3mm		FIBER COATING	900µm	
CABLE DE	ESIGN OPTIC	ONS	CONSTRUCTION	CATIONS					
JACKET Flame Retardant LSZH, Riser or Plenum		ant LSZH, Riser	AERIAL	Not suitable for	outdoor use.			3	
ARMOR	ARMOR None		UNDERGROUND Not suitable for outdoor use.						
STRENGTH MEMB	ER Kevlar/Aramid	l Yarns	IN BUILDING		e in-building with the appr nstalled (plenum or riser).	opriate flame rating		> 4	
GROUPING	Single Fiber U	nits	HARSH ENVIRONMENT	Not designed for harsh environments outside of flame/heat ratings.					
WATER BLOCKING	WATER BLOCKING None		GENERAL USES	Front plane fibe	Front plane fiber termination and patching.				
BRAND NAMES/	CORNING PI		SUPERIOR ESSEX	COMMSCOPE	AFL	TELDOR	OFS	OPTICAL FIBER	Singlemode &
SERIES	Single, Zipcord, MIC, DFX	ezINTERCONNEC	T Interconnect Round or Duplex	Simplex and Duplex	Simplex and Duplex	OptiLAN Inter- connect	Interconnect Cordage, M-Pack	TYPES	Multimode Multiple Grades

PREMISE CABLING

INDOO	R/OUTDO	OOR TIG	HT BUFFE	RED FIE	BER OPTIC C	ABLE			
FIBER COUNT	2-96/144		DIAMETER RANGE	0.1	0.19 in - 1.14 in (4.8mm - 28.9mm		FIBER COATING	900μm	
CABLE DE	SIGN OPTI	ONS	CONSTRUCTION	ON APPLI	CATIONS				
JACKET	Flame and UV Resistant		AERIAL		ed in aerial duct or outdoor shed construction.	tray. May not			
ARMOR	ARMOR Available with Interlocking Armor		UNDERGROUND	For installation in conduits, cable tray					
STRENGTH MEMBE	R Central streng	gth member with cables.	IN BUILDING		use in-building with the application installed (plenum or riser).	ropriate flame rating			
GROUPING	Single unit or	12F Subunits	HARSH ENVIRONMENT		le for extreme temperature or riser flame ratings.	environments with			
WATER BLOCKING	WATER BLOCKING Waterblocked core		GENERAL USES		trunk cables in industrial ar e for backplane patching an				
BRAND NAMES/	CORNING PRYSMIAN		SUPERIOR ESSEX	AFL TELDOR OFS		CANYON	OPTICAL FIBER	Singlemode &	
SERIES			DryBlock OFNR	Indoor/Outdo Tight Buffe	Ontil ΔN	AccuDry	15	TYPES	Multimode Multiple Grades

INDOO	R/OUTDO	OOR INT	ERCONNE	CT FIE	BER	OPTIC CA	BLE			
FIBER COUNT	1		DIAMETER RANGE		3mm/4.2mm/4.8mm		FIBER COATING	900µm		
CABLE DE	SIGN OPTIC	ONS	CONSTRUCTION APPLICATIONS							
JACKET Flame Retardant and UV Resistant		ant and UV	AERIAL		Aerial microduct recommended as cable is not self-supporting. Clips are available to attach to sides of structures.					
ARMOR	MOR None. There is a tone option on some 4.8mm.		UNDERGROUND	Installed i	Installed in microducts if going underground.					
STRENGTH MEMBE	R Kevlar/Aramid	l Yarns	IN BUILDING		Designed for use in-building or outdoor secured by cable clips in areas applicable to its flame rating (Riser or Plenum).					Name and State of the State of
GROUPING	Single Fiber U	Init	HARSH ENVIRONMEN	Not suitable for harsh environment outside of its flame and UV resistance.						
WATER BLOCKING	None				Used for drop fiber in Single Family Units (SFU) or Multiple Dwelling Units (MDU).					
BRAND NAMES/	CORNING PRYSMIAN		SUPERIOR ESSEX	СОММ	COMMSCOPE AFL OFS		CANYON	OPTICAL FIBER	Singlemode &	
SERIES	ClearCurve	MDU Drop	Rugged MDU	RealF	lex 3	Rugged Simplex	EZ-Bend	16	TYPES	Multimode Multiple Grades

AIR BLC	WN FIB	ER OPTI	C CABLE					
FIBER COUNT	1-96		DIAMETER RANGE		0.14 in - 0.18 in (3.6mm - 4.5mm)		250μm	
CABLE DE	CABLE DESIGN OPTIONS		CONSTRUCTION APPLICATIONS					
JACKET Flame retardant, designed for jetting.		int, designed	AERIAL	May be in	stalled in aerial microduct			
ARMOR	ARMOR None		UNDERGROUND May be installed in		stalled in underground microduct pathways.			
STRENGTH MEMBE	R None		IN BUILDING		for use in-building with the appropriate flame rating it is installed (plenum or riser).			
GROUPING	Stranded Fibe	r	HARSH ENVIRONMENT	Not suital high tem	ole for harsh environment applications outside of perature			
WATER BLOCKING None					networks designed with microduct pathways as well ding network distribution.			
BRAND NAMES/	PRYSMIAN SUMITOMO		AFL			OPTICAL FIBER	Singlemode & Multimode	
SERIES			eABF			TYPES	Multiple Grades	

OPTICAL FIBER

SINGLEMODE FIBER	Γ	τυ	CORNING	PRYSMIAN/	OFS	FUJIKURA	SUMITOMO	STERLITE
DESCRIPTION	TIA	IEC	CORNING	DRAKA	OFS	FUJIKURA	SUMITOMO	SIEKLIIE
Standard Singlemode	G.65	52.A/B	SMF-28	SSMF		FutureGuide-SM	SM	
Non-Dispersion Shifted (NDSF)	OS1	B1.1	SIVIF-20	SSIVIE		rutureGuide-Sivi	Sivi	
Standard Singlemode	G.6	52.D			A.W.A.	FutureGuide-LWP	PureBand PureBand-Plus	OULUTE
ow/Zero Water Peak LWP/ZWP) NDSF OS2		B1.3	SMF-28e+	ESMF	AllWave AllWave LL	FutureGuide- LWP-RA	PureAdvance PureBand Submarine	OH-LITE OH-LITE E
Dispersion Shifted Fiber	G.653	B2						
Cutoff Shifted Fiber Long-Haul Land and Sea			SMF-28 ULL TXF Vascade EX/L/	LongLine	TeraWave TeraWave ULL		PureGuide Z Fiber Z-Plus Fiber	
J		B1.2	S1000 Vascade Leaf EP				Z-Plus Fiber 130/150	
Non-Zero Dispersion Shifted Fiber Long-Haul	G.655	5/G.656	Leaf	TeraLight	TrueWave RS	FutureGuide-LA	PureGuide-LA	DOF-LITE (LEA)
Singlemode (NZ-DSF, NZDS)	492E(A)	B4	Vascade Leaf EP	TeraLight Ultra	TrueWave LA TrueWave REACH	FutureGuide-SS FutureGuide-USS	PureMetro	DOF-LITE METRO
Reduced Bend Radius	G.657.A	1/G.652.D	SMF-28 Ultra		AllWave	FutureGuide-SR15 FutureGuide-SR15	PureBand-Plus	OH-LITE NOVA
Bend Tolerant Fiber 10mm	OS2	B1.3/B6A	SMF-28 Ultra 200 ClearCurve XB	BendBright	AllWave + AllWave FLEX	200 FutureGuide-ACE	PureAccess	BOW LITE /PLUS MICRO BOW-LITE
Reduced Bend Radius	G.657.A2/G.6		ClearCurve LBL	BendBrightXS	AllWave FLEX +	FutureGuide-BIS-B	D A [A O]	Stellar
7.5mm	OS2	B1.3/B6A/B	ClearCurve LBL	BendBrightXS 200um	AllWave FLEX + 200	FutureGuide-BIS-B 200	PureAccess[A2]	MICRO BOW-LITE E BOW-LITE E
Reduced Bend Radius		7.B2/3 52.D*	ClearCurve LBL	BendBright Elite	AllWave FLEX MAX		PureAccess Ultra	BOW-LITE SUPER
5mm		B6A&B	ClearCurve ZBL					

For the past decade, Low Water Peak G.652.D singlemode fiber enjoyed the lion share of deployments for terrestrial metro and access networks. Increasing data rates and decreasing closure sizes compounded the need for bend insensitive fibers in the metro and access portions of the network.

Macrobends are under increased scrutiny today. Networks that ran well at 1Gbps speeds may have packet loss and other issues at 10Gbps and beyond when macrobends are present. Therefore the new de-facto standard singlemode fiber in most cables today is the G.657.Al standard that is also G.652.D compliant.

This reduced radius optical fiber is designed to splice to standard G.652.D Fiber without issue, and it is more robust than traditional singlemode. The robust capability allow for cable to be maintained in smaller slack loops, smaller closures and reduced diameter cable designs without sacrificing network performance.

OPTICAL FIBER

MULTIMODE	17	ΓU		PRYSMIAN/				
FIBER DESCRIPTION	TIA	IEC	CORNING	DRAKA	OFS	FUJIKURA	SUMITOMO	
62.5µm Graded Index			InfiniCor 300	Legacy OM1 GI-MMF	PYRO	FutureGuide-MM62.5	EG6	
Multimode Fiber	OM1	A1b	InfiniCor CL1000	RadHard 62.5	Acrylate	rutureguide-iviivioz.5	EGO	
50µm	G.651.1		InfiniCor 600	Legacy OM2 GI-MMF	PYRO		PureEther	
Graded Index Multimode Fiber	OM2	A1a.1	InfiniCor Sxi ClearCurve OM2	MaxCap-BB RadHard 50 OM2	Acrylate LaserWave FLEX G+	FutureGuide-MM50	Access1G	
50µm GI Laser	G.651.1		InfiniCor SX	MaxCap-BB	PYRO	FutureGuide-	PureEther	
Optimized Multimode Fiber	OM3	A1a.2	InfiniCor eSX+ ClearCurve OM3	RadHard 50 OM3/4	Acrylate LaserWave FLEX	MM10G/300	Access10G	
50µm GI Laser	G.651.1		ClearCurus ONA	MaxCap-BB	PYRO	FutureGuide-	PureEther	
Optimized Multimode Fiber	OM4	A1a.3	ClearCurve OM4	MaxCap-OM4-Plus RadHard 50 OM3/4	Acrylate LaserWave FLEX	MM10G/300	Access 10G+	
50µm Wideband			ClearCurve OM5	Mid-Cor OMF	LaserWave Flex			
Multimode Fiber (For SWDM)	OM5	A1a.4	Wide Band Fiber	WideCap OM5	WideBand			

	FIBER SPECIFICATIONS											
FIBER CLASS	FIBER TYPE	1 GBE MAX DISTANCE 850NM/1300NM	10 GBE MAX DISTANCE 850NM/1300NM	BANDWIDTH MHZ-HM (OFL) 850NM/1300NM	INDOOR CABLE JACKET COLOR							
62.5µm 200/500 MHz-km	OM1	275m/550m	36m/300m	200/500								
50μm 700/500 MHz-km	OM2	550m/550m	82m/300m	1500/500								
50μm 300 Meter 10G	OM3	1000m/550m	300m/300m	1500/500								
50µm 550 Meter 10G	OM4/OM4+	1100m/550m	550m/300m	3500/500								
50µm Wideband Multimode Fiber	OM5	1100m/600m	550m/(N/A)	3500/500								
Singlemode	OS1 & OS2	5-40km @ 1310	10km @1310 40km @ 1550	N/A								
Bend-Insensitive Singlemode	OS2	50-40km @ 1310	10km @1310 40km @ 1550	N/A								

COLOR CODE GUIDE TIA-598

The TIA/EIA color code for fiber optics follows a munsell color scheme of 12 repeating colors found on the 250µm coating or the 900µm up-jacketing of distribution fibers.

1	2	3	4	5	6	7	8	9	10	11	12
BLUE	ORANGE	GREEN	BROWN	SLATE	WHITE	RED	BLACK	YELLOW	VIOLET	ROSE	AQUA

Most manufacturers adhere to the unit position color code per TIA-598 specifications as shown below. Colors repeat the standard 12-color sequence in loose buffer tube cable designs. Individual tubes with 24 fibers typically use blue and orange colored binder thread separating the two 12 fiber groups.

	UNIT P	OSITION (COLOR COD	E FOR LOOSE TU	JBE TIA-5	598	
POSITION	BUFFER TUBE COLOR	POSITION		BUFFER TUBE COLOR	POSITION		BUFFER TUBE COLOR
1	Blue	13		Blue w/ Black Stripe	25		Blue w/ Red Stripe
2	Orange	14		Orange w/ Black Stripe	26		Orange w/ Red Stripe
3	Green	15		Green w/ Black Stripe	27		Green w/ Red Stripe
4	Brown	16		Brown w/ Black Stripe	28		Brown w/ Red Stripe
5	Slate	17		Slate w/ Black Stripe	29		Slate w/ Red Stripe
6	White	18		White w/ Black Stripe	30		White w/ Red Stripe
7	Red	19		Red w/ Black Stripe	31		Red w/ Yellow Stripe
8	Black	20		Black w/ Yellow Stripe	32		Black w/ Red Stripe
9	Yellow	21		Yellow w/ Black Stripe	33		Yellow w/ Red Stripe
10	Violet	22		Violet w/ Black Stripe	34		Violet w/ Red Stripe
11	Rose	23		Rose w/ Black Stripe	35		Rose w/ Red Stripe
12	Aqua	24		Aqua w/ Black Stripe	36		Aqua w/ Red Stripe
					37		Blue w/ Green Stripe
					38		Orange w/ Green Stripe

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dedicated team
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to customer
satisfaction &
reliability



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miles of fiber
annually



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and reduce capex



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