

Product Description: Cable

AT – S1 S2 SF S3 S4 S5 S6 – n n n

S1 – Transmission Performance (Loose Tube and Central Core Cable)

Fiber Type	Measured Wavelengths		
	850/13100	1550	1310/1550
Conventional SMF & AllWave			3
Depressed Clad LWP (Product management approval required before quoting)			**4
AllWave FLEX (Product management approval required before quoting)			**5 (Qualified for Loose Tube cables Only)
TrueWave SMF		6	
50 or 62.5 MMF	R		
Composite	X or Q	X or Q	X or Q

** Product Management Approval required

If Composite (See SF Matrix):

S1 = X or Q

When S1 = X the standard tube orientation is utilized (First tubes MM, TW, AW)

When S1=Q the fiber orientation is reversed.

S2 = SF Row Fiber Performance

SF = Fiber Type

E5, E6 = SF Matrix Column Performance

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S2 –Fiber Performance (Loose Tube and Central Core Cable)

MultiMode (50um and 62.5um)Fiber Performance				
Character	dB/km @ 850 nm	MHz*km @ 850 nm	dB/km @ 1300 nm	MHz*km @ 1300 nm
U (62.5 Micron)	3.4	200	1.0	500
A (Laser Optimized 62.5)	2.9	220	0.7	500
C (Laser Optimized 62.5XL)	2.9	350	0.7	500
G (Laser Optimized 50XL)	2.4	500	0.7	900
J (Laser Optimized 50)	2.4	550	0.7	600
K (50 Micron)	2.5	500	0.7	500
F (LaserWave 300)	2.4	1500	0.7	500
H (LaserWave 550)	2.4	3500	0.7	500
B (LaserWave 600)	2.4	3675	0.7	500
X (special)	special	special	special	special

KEY -

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S2 –Fiber Performance (Loose Tube and Central Core Cable)

Single mode, LWP and AllWave Fiber Performance					
Character	dB/km @ 1310 nm	dB/km @ 1385 nm (AllWave & LWP)	dB/km @ 1490 nm (AllWave Only)	dB/km @ 1550 nm	dB/km @ 1625 nm (AllWave & LWP)
N	0.34	0.31	0.25	0.22	0.25
L	0.35	0.31	0.27	0.22	0.27
U	0.35	0.31	0.27	0.23	0.27
B (Standard AW)	0.35	0.31	0.27	0.25	0.27
W (LWP Only)	0.35	0.35	N/A	0.25	0.27
X (special)	special	special	special	special	special

TrueWave FamilyFiber Performance (TWRS,TW REACH, TW SRS)	
Character	dB/km @ 1550
4	0.22
8	0.23
5	0.24
2 (standard) ¹	0.25

*Consult TrueWave fiber data sheets for dispersion data

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SF – Fiber Type (Loose Tube and Central Core Cable)

		2 nd Fibers in Tubes (Composite)								
		DC	MC (LWP)	AW	TWRS	TW RCH	50um	62.5um	TWRS S	Other
1 st Fibers in tubes	DC	0	5	I	3	8	P	R		X
	MC (LWP)	5	M	V	4	B	Q	S		X
	AW	I	V	E	7	A	O	G		X
	TWRS	3	4	7	6	C	L	D		X
	TW RCH	8	B	A	C	T	H	F		X
	50um	P	Q	O	L	H	2	Y		X
	62.5	R	S	G	D	F	Y	9		X
	**TWSR S								J	
	Other	X	X	X	X	X	X	X	X	X

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Light Grey Shaded: S1=X (Standard fiber/tube orientation)

Un-shaded: S1=Q (Fiber/tube orientation reversed from standard)

MC = Matched Clad, 62.5 = 62.5/125 μm multimode, 50=50/125μm multimode , AW = AllWave, TWRS = TrueWave Reduced Slope, TW RCH = TrueWave Reach, LWP= Low Water Peak Matched Clad

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S3 – Sheath & Central Member (Loose Tube and Central Core Cable)

Description	Central Member			Examples of Cable Types
	Metallic	Dielectric	No	
1.1 K-J	D	1		Single Jacket, OPTION1 ¹ , PGSS ¹ ,PGTTH ¹ , Figure 8 ¹ , MiDia
J-K-J	E	2		PowerGuide ¹ , Double Jacket
J-S-J	K	N		Armored, Figure 8 Armored ¹ , OPTION1 Armored ¹
K-J-S-J-S-J	L	R		Heavy Armor
S-J	B	H		Light Armor
S-J-S-J	C	G		Double Armor
J-J	Y	Z		Single Jacket w/ Nylon Outer Jacket
J-S-J-J		J		Armored w/ Nylon Outer Jacket
SJ-J	M	O		Light Armor w/ Nylon Outer Jacket
SJSJ-J	S	3		Double Armor w/ Nylon Outer Jacket
S-SW-J			Q	Mini C2
J		4		MiDia <i>Explus</i>
Special	X	X	X	
CENTRAL CORE				
	Metallic	Dielectric	No	Examples of Cable Types
CENTRAL CORE			8	All Central Core products (transferred from Norcross)

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K = aramid yarn or fiberglass strength elements

S = steel armor

¹ Not available with Metallic Central Member

J = polyethylene or other jacket material.

2G = two layers of glass yarn

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S4 – Tensile Load & Copper Pairs (Loose Tube Cable) - Cable Core Design (Central Core)

Tensile Load Rating (lb)	Loose Tube – Number of Copper Pairs/Conductors (extra extension to designate type)							
	0	1	2	3	4	6	8	10
	600	2	C	D	K	Q	T	U
300	3	4	1					
PowerGuide	7	A	B					
Figure 8	M							
Special	X							
Central Core – Cable Core Design (When S3 = 8)								
Character	Core Design							
2	Solid, round, 2 FRP rods, dry 1 to 6 fiber (Micro LXE)							
3	12 Fiber AccuRibbon® Dry Core							
4	24 Fiber AccuRibbon® Dry Core							
5	Solid, round, dry 6f ribbon core (for XpressTube AR FX)							
8	Fire Retardant Drycore LightPack							
D	LIGHTPACK® Core							
F	Air Core Ribbon Riser							
G	12 Fiber AccuRibbon® Core							
K	4 Fiber AccuRibbon® Core							
L	8 Fiber AccuRibbon® Core							
M	6 Fiber AccuRibbon® Core							
R	24 Fiber AccuRibbon® Core							
T	2.0 mm PBT Tube (Mini LT)							

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S5 – Cable Unit Type (Loose Tube Cable) – Sheath Design (Central Core Cable)

Loose Tube – Cable Unit Type		Tube Diameter	Tube Material
Character	Cable Unit Type		
A	AccuTube Ribbon Loose Tube (DryBlock)	6.0 mm = 432 fiber 7.2 mm = 864 fiber	PBT
B	Single Central Tube (Mini C2)	3.0 mm	PBT
D	LooseTube (DryBlock)	3.0 mm 12fi/tube 2.5 mm 6 fi/tube	PBT
E	Loose Tube with 24 Fibers (DryBlock)	3.5 mm	PBT
S	Loose Tube (DryBlock)	2.0 mm	PBT
T	Loose Tube with 12 Fibers (DryBlock)	2.5 mm	PP
Y	All-Dry Loose Tube	2.5 mm	PP
Z	LooseTube with 12 Fibers OPTION1	2.5 mm	PBT

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S5 – Cable Unit Type (Loose Tube Cable) – Sheath Design (Central Core Cable)

Central Core – Sheath Design	
Character	Sheath
2	DuctSaver+ (<i>Armored Sheath with Dielectric Strength Members</i>)
3	Modified Dielectric LXE Sheath, 2 Strength Members
4	DuctSaver FX (Micro Cable)
5	PVC Interconnect
6	Xpresstube AR FX, represented as a cable code
7	Flat Dielectric Drop
B	Micro LXE
D	Dielectric Drop Cable (6f bundles standard on Lightpack)
F	Dielectric Crossply
**H	Primary Rodent-Lightning (Stainless Steel or Bimetal Armor) (standard cable code =
L	PVC Crossply (Dielectric Riser) (Unavailable)
**M	Primary Armor (ECCS Armor)
**R	LXE Rodent-Lightning (Stainless Steel Armor)
S	LXE Metallic (ECCS Armor)
V	Mini-LXE (ECCS Armor) (6f bundles standard on Lightpack)
X	Indoor/Outdoor Cable (<i>Dielectric LXE Sheath, 2 Strength Members, Flame Retardant</i>)
Y	High Fiber Count (>216 Fibers) Metallic Sheath

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S6 - Fibers Per Tube (Loose Tube) – OverSheath (Central Core)

Loose Tube – Fibers Per Tube	
Character	Fibers per Tube
1	1
2	2
4	4
6 (standard)	6
8	8
N	10
T (standard)	12
F	24
X	Special
Central Core - OverSheath	
Character	Oversheath
A	Armored Flame Retardant
C	Stainless Steel Oversheath
D	ECCS Oversheath
X	None
T	Toneable Flat Drop

Note: PGTTH has maximum 4 Fibers/Tube

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Extensions to Cable Description (Optional) (Listed in order to appear in description, no dashes to separate)

-E1	Representing
Z	Low Temp. Rated Cable: -60 deg C
2	22 AWG Copper Pair - Max 3 pair w/o R&D Approval
**6	16 AWG Copper Conductor – Min. buffer tube size 2.5 mm
**9	19 AWG Solid Copper Conductor– Min. buffer tube size 2.5 mm
H	HDPE Outer Jacket
N	Outer Nylon Jacket
O	Orange Outer Jacket
Y	Yellow Outer Jacket
**S	Stainless Steel Armor
P	Two Orange Extruded Stripes
W	Two White Extruded Stripes
E	Two Yellow Extruded Stripes
U	Two Blue Extruded Stripes
G	Two Green Extruded Stripes
R	Two Red Extruded Stripes
M	Two Brown Extruded Stripes
I	Aluminum Interlocking Armored Cable
**HX	HDPE Outer Jacket w/ 12 AWG Conductor. 3.0 mm Tube Required

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Composite Cables (MMF/SMF or TW/SMF where S1 = X) (Loose Tube Cable Only)

- E1/E2 - E5 E6

E1 = Number of MMF or TW

E2 = Number of SMF

NOTE: Composite information listed before other specials.

MMF or TW performance defined by S2 & S3

E5 E6 define SMF performance

- E5 E6	Representing
E5	S1 for second fiber type in composite cable
E6	S2 for second fiber type in composite cable

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Product Description: Cable continued

AT - S1 S2 SF S3 S4 S5 S6 - n n n - E1 E2 E3 E4

PowerGuide Cable (Loose Tube Cable Only)

E1 - PowerGuide Cable Type

- E1	Representing
C (standard)	MDPE Easily Strippable Sheath
T	Tracking Resistant Easily Strippable Sheath

E2 E3 - PowerGuide Cable Ends of Kevlar (Loose Tube Cable Only)

E4 - PowerGuide Cable Kevlar Denier (Loose Tube Cable Only)

Note: Composite PowerGuide Cable format is - E1 E2 E3 E4 - MM / SM

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