

## Multifiber Distribution (Tight Buffered) Cable Assemblies



### Description

The factory made, quality controlled fiber optic assembly is specified for short internal optical links. The 900µm tight buffer presentation lends itself to installation within a patch panel, wall box or Optical Distribution Frame (ODF). Crush resistant protective tubing assures 900µm tails protection during transportation and installation. The high tensile strength pulling element allows fast, safe and effective pulling action. The overall assembly and packing are light and compact, reducing transport cost and storage space. Installation waste is also reduced. A unique link loss certificate accompanies all Distribution multifiber assemblies.

### Features and Benefits

- Available in OM1, OM2, OM3, OM4 (ISO/IEC) and OS1 with G.652D and G657A1 fiber types
- 900um tails for installation inside fiber management
- LSZH, OFNP, OFNR
- No splicing or connector termination required
- High tensile strength pulling element
- Low waste packaging
- Installation guide supplied
- Available with SC, LC, FC, ST, and E2000 connector types
- 2 - 24 core tight buffer cable with standard connectivity
- Fast installation
- Robust crush resistant protection tube
- Economical, light and compact assembly
- User friendly link loss test certificate

## Applications

- Internal horizontal backbone cabling
- Enterprise/ Data Centers
- 900um tails ideal for installation inside panels or wall boxes

## Specifications

SPECIFICATION	VALUE
Fiber	OS1 G652D/ G.657A1, OM1, OM2, OM3, OM4
Tail Dimensions	900µm Simplex Tails Staggered Configuration
Cable Construction	Tight buffer 4, 8, 12 and 24 cores (IEC 60794)
Terminations	SC, LC, ST, FC, E2000
Cable Diameter	4 Core Max OD 4.8/ 5.4 ± 0.3 mm 8 Core Max OD 5.8/ 5.9 ± 0.3 mm 12 Core Max OD 6.5/ 7.6 ± 0.3 mm 24 Core Max OD 8.9/ 9.6 ± 0.3 mm
Crush Resistance	500N/100mm
Cable Tensile Strength	4 Core (Installation) 400N 8 Core (Installation) 400N 12 Core (Installation) 450N 24 Core (Installation) 650N
Cable Strength Member	E-Glass
Storage Temperature	-20 ~ +60°C
Installation Temperature	-5 ~ +50°C
Operating Temperature	-20 ~ +60°C
Tail Protection	Crush Resistance tube - OD Max 25mm (24 x 900mm)
Pulling element	Standard for assembly length above 20m
Packaging	Length ≤ 100 Coil in heavy duty polymer bag Length > 100 Drum

## Cable Performance

FiberType (ISO/IEC 11801)	OS1	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38Max(1310nm) ≤0.25 Max(1550nm) ≤0.34Typ(1310nm) ≤0.19 typ (1550nm)	≤3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.9 Typ(850nm) ≤ 1.2typ(1300nm)	≤3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.7 Typ(850nm) ≤ 0.9typ(1300nm)	≤3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.7Typ(850nm) ≤ 0.9typ(1300nm)	≤ 3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.7 Typ(850nm) ≤ 0.9typ(1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	NA	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)

FiberType (ISO/IEC 11801)	OS1	OM1	OM2	OM3	OM4
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850)

## Termination Performance

OPTICAL PERFORMANCE*	MM PREMIUM	MM STANDARD	SM PREMIUM	SM STANDARD	CONFORMANCE
IL Max/Master (Acceptance)	0.15dB	0.25dB	0.15dB		IEC 61300-3-4 · 2 5 dB
Ave/Master	0.08dB	0.15dB	0.12dB		IEC 61300-3-4 · 1 8 dB
Ave/Random	0.10dB	0.20dB	0.12dB		IEC 61300-3-34 · 1 8 dB
RL(Min Acceptance)	NA	NA	55/65**		IEC 61300-3-6 5 / 6 5 * *

\*Connector Performance table does not refer to E2A Terminations \*\* UPC/APC

## Technical Drawing

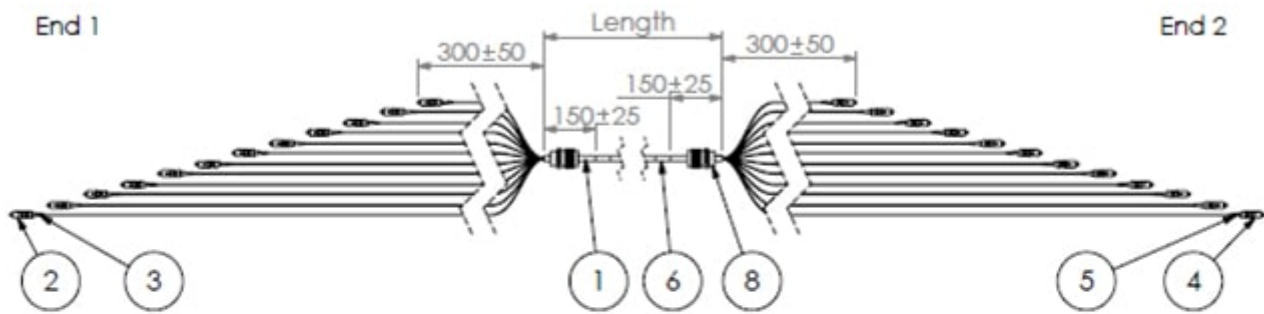
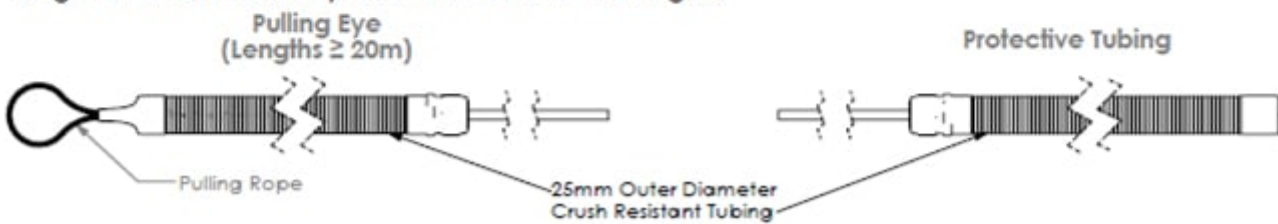


Diagram for illustration only. See Sheet 3 for tail cut lengths.



## Ordering Information

Code	Fiber Type	Code	Fiber Count	Jacket Material	Color	Grade	End A	End B	Tails	Unit	Length
T	1 OM1	BD	2 2F	L LSZH	8 Black	E Enhanced	A LC	A LC	-0005- 900um Simplex Stagger - 900um Simplex Stagger	M Meters	1 1
	3 OM3		4 4F	E CPR Eca		P Premium	B LCA	B LCA	-0015- 900um Simplex Stagger - Stub	F Feet	2 2
	4 OM4		6 6F	R OFNR			D SC	D SC			3 3
	7 G.657A1		8 8F	P OFNP			E SCA	E SCA			5 5
			B 12F				H FC	H FC			10 10
			C 16F				J FCA	J FCA			XX Specify
			F 24F				L E2	L E2			
							M E2A	M E2A			
							X Open				

## Legacy ordering information

PRE	Fiber Count	Connector End A	Connector End B	Fiber Type	Cable Construction	Cable Length	Cable Jacket Type	Termination Grade
	2 2	SC SC	XX Open End	09 OS1 G.652D	TB Tight Buffered	1 1 meter	Leave Blank LSZH	Leave Blank Standard
	4 4	SCA SC APC	SC SC	62 OM1		2 2 meter	RI OFNR	/P Premium
	6 6	LC LC	SCA SC APC	50 OM2		3 3 meter	PL OFNP	
	8 8	LCA LC APC	LC LC	OM3 OM3		5 5 meter	E* LSZH CPR Euroclass Eca	
	12 12	FC FC	LCA LC APC	OM4 OM4		10 10 meter		
	16 16	FCA FC APC	FC FC	7A1 G657A1		xx Specify		
	24 24	E2 E2000	FCA FC APC					

			E2A	E2000 APC	E2	E2000									
					E2A	E2000 APC									

## Example Part Number

PRE	12	LC	SC	OM3	TB	5			
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PRE12LCSCOM3TB5 - Multifibre Assembly 12 Core LC-SC OM3 50/125 Tight Buffered Black LSZH 5mtr Open End  
 Example PRE12LCXX09TB5 - Multifibre Assembly 12 Core LC-Open end OS1/2 9/125 Tight Buffer Black LSZH 5mtr  
 Plenum Jacket Example PRE24SCSCA50TB10FNP - Multifibre Assembly 24 Core SC-SCA OM2 50/125 Tight Buffer Black  
 Plenum 1mtr Premium Example PRE24SCSCOM4TB10/P - Multifibre Assembly 24 Core Premium Low Loss SC-SC OM4  
 50/125 Tight Buffer LSZH Black 10mtr \* CPR Euroclass Dca-s1,d1,a1 Available on Special Request- Contact Sales Office  
 CPR Euroclass Cca-s1,d1,a1 Available on Special Request- MOQ May Apply

## Additional Information

- TIA/EIA-568-C.3 and IEC 11801
- IEC 60793 and IEC 60794
- IEC 61753, IEC 61754 and IEC 61755
- IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

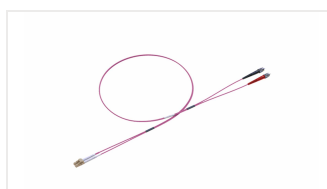
## Related Products



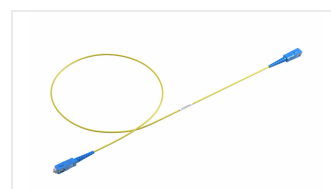
S03 1RU Black Sliding Patch Panel - 24 Position LC/SC/E2000 up to 48 fibers



S09 1RU Black Sliding Patch Panel - 24 Position SC duplex up to 48 fibers



OM4 Simplex/Duplex Enhanced Patch Cord



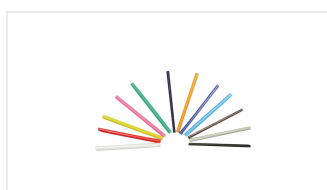
SM Simplex/Duplex Enhanced Patch Cord



FCP2 Fiber Cleaning Kit for SC/ST/FC/LC/MPO



FOCIS Flex Fiber Scope



Optical Fiber Fusion Splice Protectors