



## OM3 Duct /Un-armored Fiber Cable Multitube

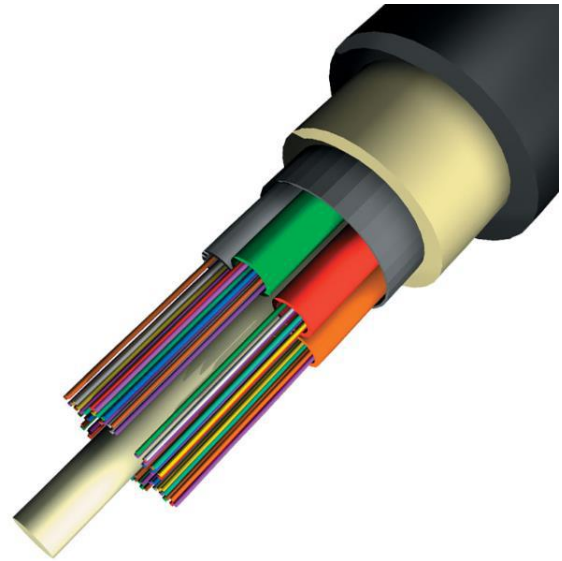
Avalon loose tube unarmored optical fiber cable (Multitube) multimode is recommended for duct installation. All six tubes are constructed of PBPT material with eight color coded OM1 Optical fibers located in each tube. LSZH sheath allows indoor installation. The cable is protected against rodent .but is not recommended for direct burial application. The Tube encloses multiple coated fibers that are surrounded by Thixotropic gel compound that protects the cable from moisture in outside environments. The Fiber Reinforced Plastic (FRP) rod is present at the center of the core and PBTB loose tubes. It is filled with water resistance filing compound, containing primary coated fibers that are stranded around the central strength member (FRP) into a compact and circular cable core.The outer sheath is made of HDPE/LSZH.

### Compliance

- ITU-TG.652
- EC Specifications 60793-2-10 type A1a.1
- TIA/EIA 492AAAB
- Telecordia's GR-20-Core
- ISO/IEC 11802 OM-3

### Applications

- 1000 Base –SX
- 100 Base- FX
- 1000 Base – LX
- 155 Mbps ATM
- FDDI
- 531 Mbps Fiber Channel
- 1062 Mbps Fiber Channel



### Specification

Fiber Count	Diameter(mm) Nominal	Weight (Kg/mm) Nominal	Tensile Strength(N)		Bending Radius(mm)	
			Installation	Operating	Temporary	Permanent
24	11.0	110	2500	1300	110	220
26-48	12.0	120	3000	1500	130	240
50-72	13.0	149	3000	1500	130	260
74-96	14.5	175	4000	2000	145	290
98-120	15.5	205	4000	2000	155	310
122-144	17.0	255	4000	2000	170	340



## Construction Specification

PARAMETERS	SPECIFICATION			
	24 CORE	48 CORE	72 CORE	96 CORE
<b>Loose Tube Material</b>	Loose Tube	Loose Tube	Loose Tube	Loose Tube
<b>Type of Cable</b>	OM3 50/125	OM3 50/125 Multimode	OM3 50/125 Multimode	OM3 50/125
<b>Material Type</b>	PBTP	PBTP	PBTP	PBTP
<b>Number of Loose</b>	4	6	6	8
<b>Outer Diameter of Loose Tube</b>	1,9 mm ( Nominal)	2,2 mm (Nominal)	2.4mm (Nominal)	2.4mm (Nominal)
<b>Colour of Loose Tube</b>	Blue, Orange, Green, Brown	Blue, Orange, Green, Brown, Slate and White	Blue, Orange Green, Brown, Slate, White	BL, OR,GR,BR,SL, WH,RED, BK
<b>Loose Tube Gel</b>	Thixotropic Gel	Thixotropic Gel	Thixotropic Gel	Thixotropic Gel
<b>No. Of Fillers Colour of Fillers</b>	2 Black	NIL N/A	NIL N/A	NIL N/A
<b>Outer Sheath Material</b>	LSZH	LSZH	LSZH	LSZH
<b>Colour of Loose Tube</b>	Black	Black	Black	Black
<b>Nominal Thickness</b>	2.0 mm	2.0 mm	2,0 mm	2,0 mm
<b>Overall Diameter SZ Core</b>	10.5mm (Nominal)	11.2 mm (Nominal)	12.0 mm (Nominal)	13.5 mm (Nominal)
<b>Sequence of Elements in Core</b>	BL, OR, GR, BR TUBES, BK1, BK2	BL,OR,GR,BR,SL, WH Loose Tubes	BL,OR,GR,BR,SL & WH	BL, OR,GR,BR,SL, WH,RD,BL
<b>Core</b>	Single layer of	Single layer of water	Single layer of water	Single layer of
<b>Barrier</b>	swellable	tape/yarns	swellable tape/yarns	swellable
<b>Water Blocking</b>	Water Swellable	Water Swellable Yarns	Water Swellable Yarns	Water Swellable
<b>Rip Cord</b>	01 (Below Outer Sheath)	01 (Below Outer Sheath)	01 (Below Outer Sheath)	01 (Below Outer Sheath)
<b>Strength Members</b>				
<b>Type (Peripheral)</b>	Yes	Yes	Yes	
<b>Type</b>	FRP RODS	FRP RODS	FRP RODS	
<b>Size</b>	2.0 mm (Nominal)	2.2mm (Nominal)	2.5mm (Nominal)	2.5 mm (Nominal) 4.0 mm
<b>FRP ROD After Uploading</b>				
<b>Cable Weight</b>	106	123	137	168
<b>Maximum Permissible Tensile Force</b>	1000 N	1500 N	1700 N	1700 N
<b>Standard Length</b>	2.0 +/- 10 % (KM)	2.0 +/- 10 % (KM)	2.0 +/- 10 % (KM)	2,0 +/- 10 % (KM)

## Ordering Information

Part Number	Description
AN -OM3-24-50-LT	Avalon Fiber Optic Multitube 24 Core Indoor/Outdoor Cable, OM3
AN -OM3-48-50-LT	Avalon Fiber Optic Multitube 48 Core Indoor/Outdoor Cable, OM3
AN -OM3-72-50-LT	Avalon Fiber Optic Multitube 72 Core Indoor/Outdoor Cable, OM3
AN -OM3-96-50-LT	Avalon Fiber Optic Multitube 96 Core Indoor/Outdoor Cable, OM3