



## OS1 - Singlemode Armored/Direct Burial Fiber Cable Multitube Design: 24F, 48F, 96F Cables

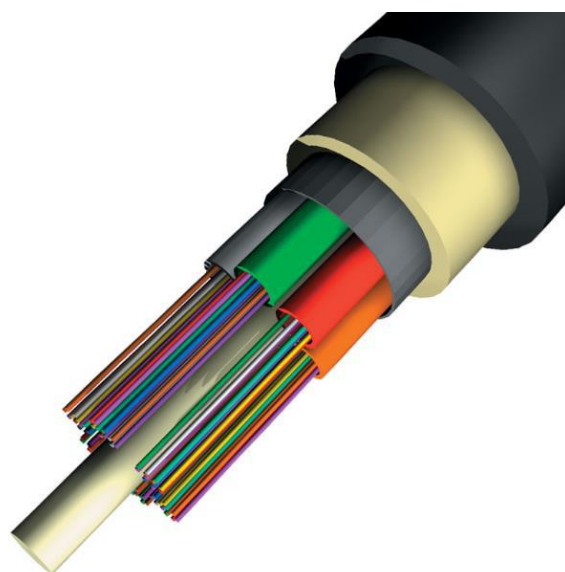
Avalon's high performance singlemode (Multitube) loose tube ECCS armored optical fiber cable are protected with thixotropic gel placed in loose tubes. The construction is genuinely designed for applications demanding superior mechanical protection where loose tubes are armored with ECCS tape shielding against rodent attack and compression for direct burial application. The outer jacket is flame retardant, Low Smoke Zero Halogen. Water ingress and migration are prevented by water blocking threads and tape. Rip cords provided ease of armor and sheath removal. Easy and quick installation is attributed by its compact, lightweight and extremely rugged construction.

### Features

- ITU-T G.652 D
- EC Specifications 60793-2-50 Type B1.3
- TIA/EIA 492-CAAB
- Telecordia's GR-20-CORE
- ISO/IEC 11802 OS-1

### Applications:

- 1000BASE-LX
- 10GBASE-LX4
- 10GBASE-LR/LW
- 10GBASE-ER/EW
- 155 Mbps ATM
- 622 Mbps ATM
- FDDI
- 531 Mbps Fiber Channel
- 1062 Mbps Fiber Channel



### Specification

Fiber Count	Diameter(mm)	Weight (kg/km)	Tensile Strength (N)		Bending Radius	(mm)
	Nominal	Nominal	Installation	Operating	Installation	Operating
24	13	155	4000	2000	130	260
26-48	13	155	4000	2000	130	260
50-72	14	175	4000	2000	140	280
74-96	15.6	215	5000	2500	150	300



## Construction Specification

PARAMETER	UNIT	SPECIFICATIONS		
Fiber Identification OS1		24 Core Armoured Dry Core	48 Core Armoured Dry Core	96 Core Armoured
Singlemode Optical				
ATTENUATION @ 1310nm	dB/Km	< 0.36	< 0,36	< 0.36
ATTENUATION @ 1550nm	dB/Km	< 0.23	< 0,23	< 0,23
TUBING		Loose Tube	Loose Tube	Loose Tube
Material		PBTP	PBTP	PBTP
Diameter	mm	1.9 (NOMINAL)	2.1 (NOMINAL)	2.4 (NOMINAL)
No. Of Fillers		2.0	NIL	NIL
Colour of Fillers		Black	Black	Black
Sequence of Elements		BL , OR , GR , BR LOOSE TUBES,	BL,OR,GR,BR,SLATE,WH	BL, OR,GR,BR,SL,WH,RD,
Core Wrapping		BK1, BK2 FILLERS  Single layer of water swellable tape applied longitudinally	Single layer of water swellable tape applied longitudinally	Single layer of water swellable tape applied longitudinally
Water Blocking Material		Water Swellable Yarns	Water Swellable Yarns	Water Swellable
Loose Tube Gel		Thixotropic Gel	Thixotropic Gel	Thixotropic Gel
Rip Cords		1 (Below Armoured)	1 (Below Armoured)	1 (Below Armoured)
JACKETING				
Material		LSZH	LSZH	LSZH
Colour		Black	Black	Black
Overall Diameter	mm	12.0 (NOMINAL)	12.5 (NOMINAL)	15.0 (NOMINAL)
ARMOURING				
TYPE (PERIPHERAL)		ECCS Tape	ECCS Tape	ECCS Tape
MS Tape Thickness		> 0.15	> 0.15	> 0.15
STERNGTH MEMBER		Yes	Yes	Yes
Type (Peripheral)		FRP ROD	FRP ROD	FRP ROD
Nominal Size	mm	2.0	2.2	2.5
Size of Upcoated FRP	mm			4.0
Cable Weight (NOMINAL)	Kg/Km	162	170	237
TENSILE STRENGTH	Newton	2000	2200	2500
STANDARD LENGTH	KM	2.0 + 10 %	2.0 + 10 %	6.0 + 10 %

## Ordering Information

Part Number	Description
AN-FOC-24-09-AR	Avalon Fiber Optic Multitube 24 Core Outdoor Loose Tube Armored Cable OS1
AN-FOC-48-09-AR	Avalon Fiber Optic Multitube 48 Core Outdoor Loose Tube Armored Cable OS1
AN-FOC-96-09-AR	Avalon Fiber Optic Multitube 96 Core Outdoor Loose Tube Armored Cable OS1