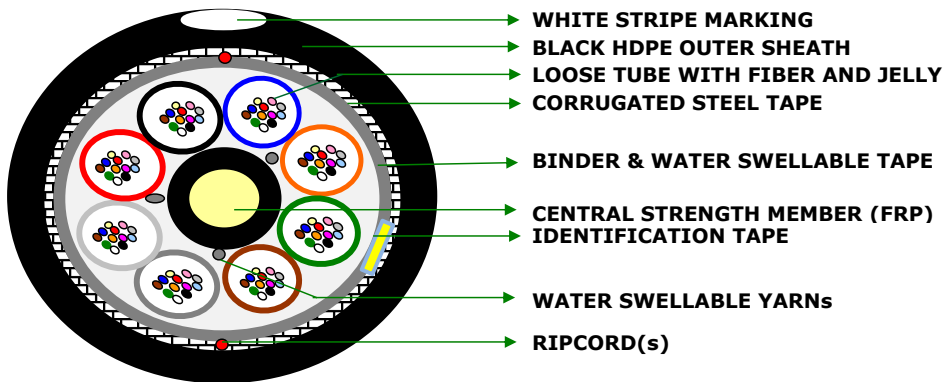


96F SM (G657A1 NOVA) Multitube Single Sheath Armor Lite Optical Fibre Cable
PRODUCT INFORMATION

Fiber			
Single Mode Optical Fiber	Sterlite Fiber, ITU.T - G.657A1 or Superior		
Maximum Cabled Fibre Attenuation dB/Km	1310nm : 0.34 & 1550nm : 0.20 & 1625nm : 0.23		
PMD Individual Fiber (1310nm & 1550nm)	≤ 0.1 ps/√km		
PMD LDV	≤ 0.06 ps/√km		
Loose Tube			
Filling Jelly	Thixotropic jelly to prevent water ingress in loose tube		
Fiber per Tube	12 Nos.		
Tube	8 Nos.	Thermoplastic Material (PBTP/PP)	2.1±0.2 mm Nominal Diameter
Core			
Central Strength Member	Fiber Reinforced Plastic (Bare FRP or upjacketed FRP) for tensile strength & antibuckling properties		
Water blocking elements	Water Swellable Yarns are added to cable core to prevent water ingress in cable core.		
Core Covering	Binder and Water Swellable Tape		
Cable			
Rip Cord	2 Nos.	Polyester Based Yarns	Applied Below Steel Tape
Identification Tape	Printing tape will be added (below core or between WS tape & outer sheath)		
Armouring	Corrugated Steel Tape		0.125±0.005 mm Nominal Thickness
Stripe Marking	One White Colored Extruded Stripe Marking (3mm nominal width)		
Sheathing	UV Proof Black High Density Polyethylene		2.4 mm Nominal Thickness

CONSTRUCTIONAL DETAILS


Typical Construction Diagram - Not To Scale

OPTICAL FIBRE CABLE PERFORMANCE

MECHANICAL		ENVIRONMENTAL	
Max. Tensile strength	1.3 W @ 0.25% Fiber Strain	Temp. Performance	
Crush Resistance:	4000 N / 100*100 mm, No Fiber Break, No Jacket Damage	Installation	-20°C to +70°C
Impact strength:	50 N, 0.5m, No Fiber Break, No Jacket Damage	Service	-20°C to +70°C
Torsion:	±180°, 100N, 2m	Storage	-20°C to +70°C
Cable Bending Radius:	20D, No FRP Break, No Tube Kink, No Jacket Damage		
Water Penetration	1m head, 3m samples, 24 hrs.		

COLOR DETAILS

Optical Fibre Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua.
Loose Tube Color	Blue, Orange, Green, Brown, Slate, White, Red, Black.
Sheath Color	Black.

PHYSICAL PARAMETERS

Diameter (mm, Nominal)	12.5 ± 5%	Cable wt. (Kg/km)	135 ± 10%	Cable Length	4 Km ± 5%, 2 Km ± 5%
				Order Tolerance	± 5 %
				Non Std. Length	Max 5%, With Customer Approval.

PRINTING DETAILS

Identification Tape Printing	STERLITE BHARTI AIRTEL LIMITED SMF 96F YEAR OF MANUFACTURE				
Cable Printing details (White - Hot Foil Emb.)	STERLITE 96F G657A1 NOVA ARMOUR OFC LASER SYMBOL TELEPHONE SYMBOL MONTH & YEAR OF MANUFACTURE BHARTI AIRTEL LIMITED BATCH ID METER MARKING				

The accuracy of marking shall be +0.5%,-0%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supercedes the earlier markings.

Prepared By:-RT

Approved By:D Wagh

Doc. No.:- 08/12-F-D-SN-1-BM

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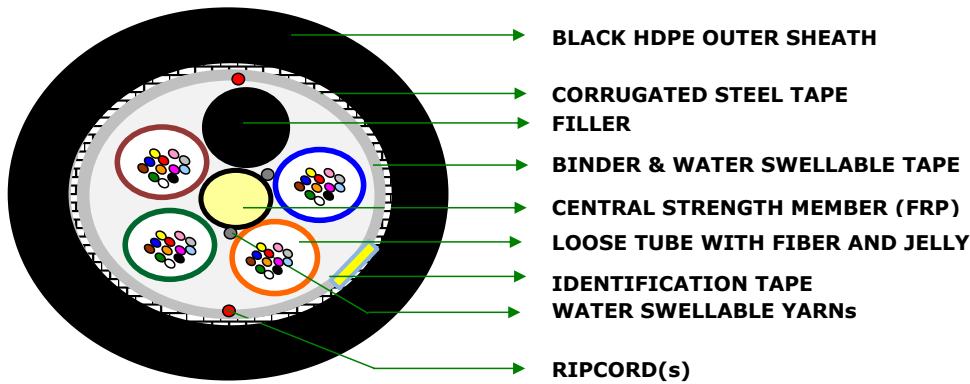
Date:-23-10-2022

48F SM (G657A1 NOVA) Multitube Single Sheath Armor Lite Optical Fibre Cable

PRODUCT INFORMATION

Fiber			
Single Mode Optical Fiber	Sterlite Fiber, ITU.T - G.657A1 or Superior		
Maximum Cabled Fibre Attenuation dB/Km	1310nm : 0.34 & 1550nm : 0.20 & 1625nm : 0.23		
PMD Individual Fiber (1310nm & 1550nm)	≤ 0.1 ps/√km		
PMD LDV	≤ 0.06 ps/√Km		
Loose Tube			
Filling Jelly	Thixotropic jelly to prevent water ingress in loose tube		
Fiber per Tube	12 Nos.		
Tube	4 Nos.	Thermoplastic Material (PBTP/PP)	2.1±0.2 mm Nominal Diameter
Core			
Central Strength Member	Fiber Reinforced Plastic(FRP) to provide tensile strength and antibuckling properties		
Filler	1 Nos.	Polyethylene Black	
Water blocking elements	Water Swellable Yarns are added to cable core to prevent water ingress in cable core.		
Core Covering	Binder and Water Swellable Tape		
Cable			
Rip Cord	2 Nos.	Polyester Based Yarns	Applied Below Steel Tape
Identification Tape	Printing tape will be added (below core or between WS tape & outer sheath)		
Armouring	Corrugated Steel Tape		0.125±0.005 mm Nominal Thickness
Sheathing	UV Proof Black High Density Polyethylene		2.4 mm Nominal Thickness

CONSTRUCTIONAL DETAILS



Typical Construction Diagram - Not To Scale

OPTICAL FIBRE CABLE PERFORMANCE

MECHANICAL		ENVIRONMENTAL	
Max. Tensile strength	1.3 W @ 0.25% Fiber Strain	Temp. Performance	
Crush Resistance:	4000 N / 100*100 mm, No Fiber Break, No Jacket Damage	Installation	-20°C to +70°C
Impact strength:	50 N, 0.5m, No Fiber Break, No Jacket Damage	Service	-20°C to +70°C
Torsion:	±180°, 100N, 2m	Storage	-20°C to +70°C
Cable Bending Radius:	20D, No FRP Break, No Tube Kink, No Jacket Damage		
Water Penetration	1m head, 3m samples, 24 hrs.		

COLOR DETAILS

Optical Fibre Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua.
Loose Tube Color	Blue, Orange, Green, Brown.
Filler Color	Black.
Sheath Color	Black.

PHYSICAL PARAMETERS

Diameter (mm, Nominal)	11.2 ± 5%	Cable wt. (Kg/km)	110 ± 10%	Cable Length	4 Km ± 5%, 2 Km ± 5%
				Order Tolerance	±5 %
				Non Std. Length	Max 5%, With Customer Approval.

PRINTING DETAILS

Identification Tape Printing	STERLITE BHARTI AIRTEL LIMITED SMF 48F YEAR OF MANUFACTURE
Cable Printing details (White - Hot Foil Emb.)	STERLITE 48F G657A1 NOVA ARMOUR OFC LASER SYMBOL TELEPHONE SYMBOL MONTH & YEAR OF MANUFACTURE BHARTI AIRTEL LIMITED BATCH ID METER MARKING

The accuracy of marking shall be +0.5%,-0%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supercedes the earlier markings.

Prepared By:-RT Approved By:D Wagh Doc. No.:- 04/12-F-D-SN-1-BM Rev.:-1.0 Date:-23-10-2022