

**Lumiflex**<sup>®</sup>  
ILLUMINATE THE WORLD

# Wires & Cables

Manufacturer

LUMIFLEX

# Unarmoured Cables

## UNI-TUBE UNARMoured CABLE (Up to 12F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

- DRUM**  
Available in 2Km & above
- COIL**  
01 Kms & above
- FRP 2**  
2 FRP
- YARN**  
2 GFR
- JACKET**  
HDPE

### APPLICATIONS & FEATURES

- > Suitable for duct installation
- > Used for CATV and other networks
- > Light in weight
- > Small cable diameter
- > Ease of installation
- > Available from 2 to 24 fibers



### CONSTRUCTION DETAILS

- > Non metallic, anti-buckling FRP Rod as strength member embedded in sheath
- > Single loose tube filled with thixotropic jelly and centrally placed in the cable
- > Outer sheath with UV Stabilized HDPE compound
- > Fiber count 2F-24F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > Metallic strength members
- > Composite fibers
- > Customized

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

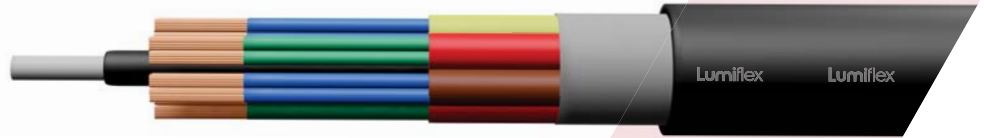
Fiber Count	Outer Diameter (Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
2F-6F	5.8 mm (±0.2 mm)	350	175	15D	20D
8F-12F	6.0 mm (±0.2 mm)	350	175	15D	20D
24F	8.0 mm (±0.2 mm)	350	175	15D	20D

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G652D and G657A1
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# Unarmoured Cables

## MULTI-TUBE SINGLE SHEATH UNARMOURED CABLE (Up to 144F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

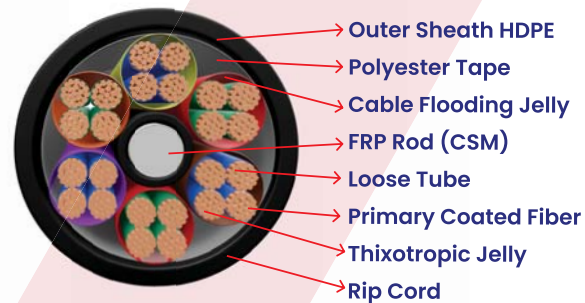
- DRUM**  
Available in 2Km & above
- COIL**  
NA
- FRP 2**  
1 FRP
- YARN**  
GFR as per design (Tech Spec.)
- JACKET**  
LSZH/HDP

### APPLICATIONS & FEATURES

- > Suitable for blowing in ducts
- > Suitable for installation alongside power lines
- > Local Loop, metro, long-haul and broadband network
- > Light Weight and flexible
- > Available upto 144 Fibers

### CONSTRUCTION DETAILS

- > Non metallic, anti- FRP rod as central strength member (CSM)
- > Loose tube containing coloured fibers and filled with thixotropic jelly
- > Cable core fully filled with flooding jelly
- > S/Z Core wrapped with polyester tape
- > Outer sheath with UV Stabilized HDPE compound
- > Fiber count 2F-144F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)



### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > Dry core construction (Gel free)/ Composite fibers/ Customized designs/Metallic CSM/ Aramid or Glass Yarns/Rip Cord(s)/FR PVC/ LSZH

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

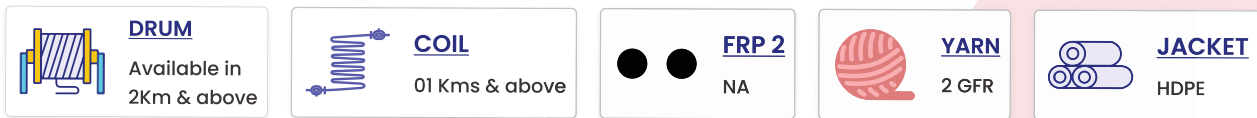
Fiber Count	Outer Diameter (Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
Upto 36F	9.8 mm (±0.2 mm)	1000	500	15D	20D
48F-72F	11.3 mm (±0.2 mm)	1600	800	15D	20D
96F	12.7 mm (±0.2 mm)	1600	800	15D	20D
144F	15.8 mm (±0.2 mm)	1600	800	15D	20D

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G652D and G657A1
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

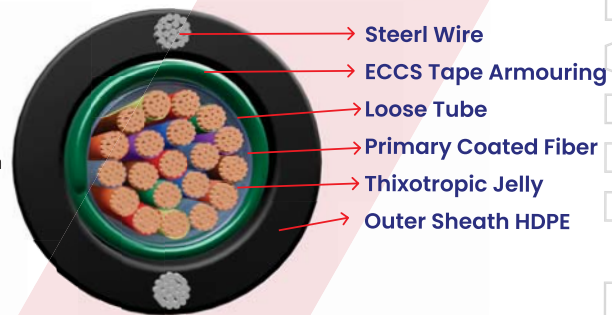
# Armoured Cables

## UNI-TUBE STEEL TAPE ARMoured CABLE (Up to 12F)



### APPLICATIONS & FEATURES

- > Suitable for direct burial and inside duct installation
- > ECCS Tape armouring provide excellent protection against rodent
- > ECCS Tape armouring provide high crush resistance & tensile strength
- > Robust construction
- > Light weight to easy installation
- > Available upto 24 fibers



### CONSTRUCTION DETAILS

- > Metallic, anti-buckling steel wire as strength member embedded in sheath
- > Single loose tube filled with thixotropic jelly and centrally placed in the cable
- > Electrolyte chrome plated, corrugated steel tape armoured
- > Outer sheath with UV Stabilized HDPE compound
- > Fiber count 2F-24F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > Non- Metallic FRP Rods/Composite fibers/ Customized designs/Aramid or Glass Yarns Rip Chord(s)/LSZH/FR PVC

### DRUM LENGTH

- > 2000 meters  $\pm$  10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

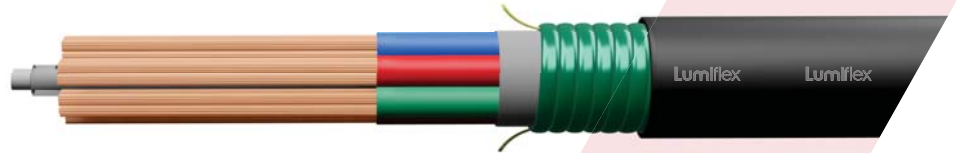
Fiber Count	Outer Diameter (Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
2F-12F	8 mm ( $\pm$ 0.2 mm)	1000	500	15D	20D
24F	10.0 mm ( $\pm$ 0.2 mm)	1000	500	15D	20D

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G652D and G657A1
Fiber Core Diameter ( $\mu$ m)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# Armoured Cables

## MULTI-TUBE SINGLE SHEATH STEEL TAPE ARMoured CABLE (Up to 144F)



<b>Blue</b>	<b>Green</b>	<b>Slate</b>	<b>Red</b>	<b>Yellow</b>	<b>Pink</b>
<b>Orange</b>	<b>Brown</b>	<b>White</b>	<b>Black</b>	<b>Violet</b>	<b>Aqua \ natural</b>

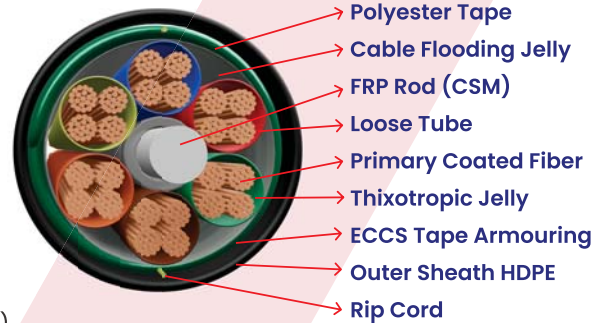
<b>DRUM</b> Available in 2Km & above	<b>COIL</b> NA	<b>FRP 2</b> 2 FRP	<b>YARN</b> 2 GFR	<b>JACKET</b> HDPE
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### APPLICATIONS & FEATURES

- > Suitable for direct burial & inside duct installation
- > Improves compressive strength and rodent protection
- > Local loop, metro, long-haul and broadband network
- > Robust construction
- > Light weight and flexible
- > Available upto 144 fibers

### CONSTRUCTION DETAILS

- > Non metallic, anti-buckling FRP rod as Central Strength Member (CSM)
- > Loose tube containing coloured fibers and filled with thixotropic jelly
- > Cable core fully filled with flooding jelly
- > S/Z core wrapped with polyester tape
- > Electrolyte chrome coated corrugated steel tape armouring
- > Fiber count 2F-144F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)
- > Outer sheath with UV Stabilized HDPE compound



### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### OPTIONS AVAILABLE ON REQUEST

- > Dry core construction (Gel free)/Composite fibers/ Customized designs/Metallic CSM
- > Aramid or Glass Yarn/Rip Cord(s)/LSZH/FR PVC

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### TECHNICAL DATA

Fiber Count	Outer Diameter (Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
Upto 36F	10.7 mm (±0.2 mm)	2000	1000	15D	20D
48F-72F	12.2 mm (±0.2 mm)	2500	1250	15D	20D
96F	13.6 mm (±0.2 mm)	2500	1250	15D	20D
144F	16.7 mm (±0.2 mm)	2500	1250	15D	20D

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G652D and G657A1
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# Figure-8 Cables

## UNI-TUBE FIG 8 AERIAL CABLE (Up to 12F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

- DRUM**  
Available in 2Km & above
- COIL**  
NA
- FRP 2**  
NA
- YARN**  
NA
- JACKET**  
HDPE

### APPLICATIONS & FEATURES

- > Suitable for aerial installation except on power lines
- > Messenger wire provides required tensile strength recommended for aerial application
- > Light weight cable construction design for ease of handling & installation
- > Local loop, metro, long-haul and broadband network
- > Available upto 24 fibers



### CONSTRUCTION DETAILS

- > Single loose tube filled with thixotropic jelly and centrally placed in the cable
- > Galvanized, stranded steel wire used as integrated messenger wire
- > Outer sheath with UV Stabilized HDPE compound
- > Fiber count 2F-24F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > Composite fibers/Customized designs/ Aramid or Glass Yarns/LSZH/FR PVC

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

Fiber Count	Outer Diameter (*HxW(Nominal) (±0.2 mm)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
2F-12F	13.0 X 6.4 mm (±0.2 mm)	2500	1250	15D	20D
24F	14.0 X 7.4 mm (±0.2 mm)	2500	1250	15D	20D

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	62.5	50	50	50	9
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# Micro Duct Cables

## UNI-TUBE MICRO DUCT CABLE (Up to 12F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

- DRUM**  
Available in 2Km & above
- COIL**  
01 Kms & above
- FRP 2**  
NA
- YARN**  
ARAMID YARN
- JACKET**  
LSZH/NYLON

### APPLICATIONS & FEATURES

- > Suitable for micro duct installation
- > All dielectric design
- > Light in weight
- > Small cable diameter
- > Ease of installation
- > Available upto 24 fibers



### CONSTRUCTION DETAILS

- > Single loose tube filled with thixotropic jelly and centrally placed in the cable
- > Aramid yarns as Peripheral Strength Member (PSM)
- > Termite resistance Nylon PA-12 orange outer sheath
- > Fiber count 2F-24F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > HDPE/ LSZH / Composite Fibers/ Customized designs

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

Fiber Count	Outer Diameter (Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
2F-12F	3.8 mm (±0.2 mm)	500	250	10D	15D
24F	5.6 mm (±0.2 mm)	800	400	10D	15D

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	62.5	50	50	50	9
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# Interconnect Cables

## SIMPLEX CABLE (1F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

**DRUM**  
Available in 2Km & above

**COIL**  
NA

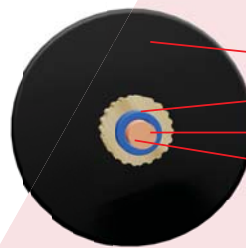
**FRP 2**  
NA

**YARN**  
ARAMID YARN

**JACKET**  
LSZH

### APPLICATIONS & FEATURES

- > Suitable for building inter-connections (Campus LAN)
- > Fiber patch panels within communications closets
- > Link between electronic equipment & fiber patch panels
- > Connectorized patchcords
- > Gel free design
- > Easy to strip & terminate



- Outer Jacket LSZH
- Aramid Yarn
- Tight Buffer
- Primary Coated Fiber

### CONSTRUCTION DETAILS

- > Tight buffer diameter 900 micron /600 micron
- > Tight buffered fiber coated with LSZH compound
- > Aramid yarn reinforcement
- > Outer jacket with LSZH compound
- > Fiber count 1F (SM Fiber G.652D, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > Tight buffered coating material PVC/ Customized designs/Outer jacket of different colours/ Outer jacket with PVC/ LSZH

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

Fiber Count	Outer Diameter (Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
1F	2.0 mm (±0.2 mm)	200	100	30	30
1F	3.0 mm (±0.2 mm)	300	150	30	30

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A



# Interconnect Cables

## DUPLEX CABLE (2F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

**DRUM**  
Available in  
2Km & above

**C21**  
NA

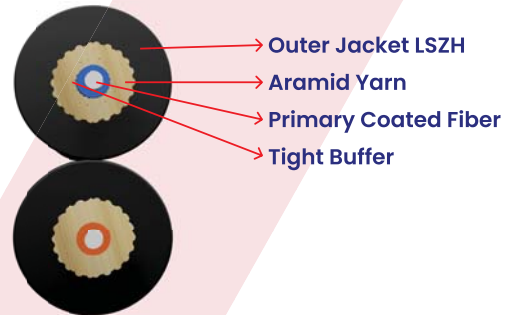
**FRP 2**  
NA

**YARN**  
ARAMID

**JACKET**  
LSZH

### APPLICATIONS & FEATURES

- > Suitable for building inter-connections (Campus LAN)
- > Fiber patch panels within communications closets
- > Link between electronic equipment & fiber patch panels
- > Connectorized patchcords
- > Gel free design
- > Easy to strip & terminate



### CONSTRUCTION DETAILS

- > Tight buffered fiber coated with LSZH compound
- > Tight buffer diameter 900 micron /600 micron
- > Aramid yarn reinforcement
- > Outer jacket with LSZH compound
- > Fiber count 2F (SM Fiber G.652D, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > Tight buffered coating material PVC/ Customized designs/Outer jacket of different colours/ Outer jacket with PVC/ LSZH/ Nylon

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

Fiber Count	Outer Diameter HxW(Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
2F	3.0 X 6.0 mm	600	300	30	60
2F	2.0 X 4.0 mm	400	200	30	60

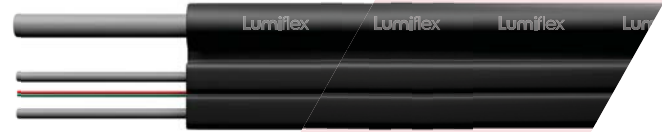
\* H= Height of Cable ; W= Width of Cable

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# FTTH Cables

## FLAT DROP OUTDOOR CABLE (2F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

- DRUM**  
Available in 2Km & above
- COIL**  
NA
- FRP 2**  
2 FRP/2 steel wire
- YARN**  
NA
- JACKET**  
LSZH

### APPLICATIONS & FEATURES

- > Suitable for outdoor installation
- > Suitable for aerial installation, to the end Connectivity up to home
- > Easy installation
- > Broadband network
- > Gel free design
- > Available upto 2 fibers



### CONSTRUCTION DETAILS

- > Fiber embedded in LSZH Sheath between 2 FRP as Peripheral Strength Member (PSM)
- > Outer sheath with LSZH compound
- > FRP Rod for self supporting
- > Fiber count 1F-2F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > ARP Rod as a peripheral strength member/ Customized designs/Steel Wire as a suspension

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

Fiber Count	Outer Diameter *HxW(Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
1F-2F	2.0 X 5.0 mm	1000	500	30	60

\* H= Height of Cable ; W= Width of Cable

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G652D and G657A1
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# FTTH Cables

## FLAT DROP INDOOR CABLE (1f/2F)

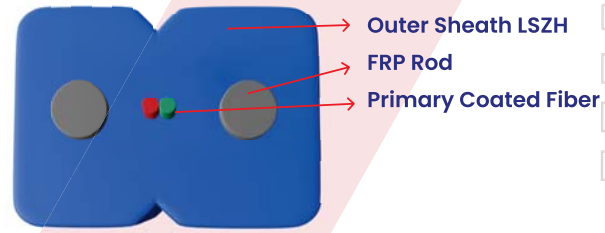


- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

- DRUM**  
Available in 2Km & above
- COIL**  
NA
- FRP 2**  
2 FRP/2 steel wire
- YARN**  
NA
- JACKET**  
LSZH

### APPLICATIONS & FEATURES

- > Suitable for indoor installation in any type of civil structures
- > Suitable for aerial installation to the end connectivity up to home
- > Easy installation
- > Broadband network
- > Gel free design
- > Available upto 4 fibers



### CONSTRUCTION DETAILS

- > Fiber embedded in LSZH Sheath between 2 FRP Peripheral Strength Member (PSM)
- > Outer sheath with LSZH compound
- > Fiber count 1F-4F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

### ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- > Operating Temperature : -30°C to + 70°C
- > Storage Temperature : -30°C to + 70°C
- > Installation Temperature : -20°C to + 70°C

### OPTIONS AVAILABLE ON REQUEST

- > ARP Rod/Steel wire as a peripheral strength member/ Composite fibers/ Customized designs

### DRUM LENGTH

- > 2000 meters ± 10%
- > As per customer's requirement

### INTERNATIONAL STANDARDS

- > IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- > ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- > EN 187000; Telecordia GR-20 issue 3rd May, 2008

### TECHNICAL DATA

Fiber Count	Outer Diameter *HxW(Nominal)	Tensile Strength (N)		Bending Radius	
		Temporary	Permanent	Temporary	Permanent
1f/ 2F	2.0 X 3.0 mm	50	25	30	60

\* H= Height of Cable ; W= Width of Cable

### FIBRE TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G652D and G657A1
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G652D and G657A1
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

# Drop Cable(Round)

## FTTH DROP CABLE ROUND WITH FRP DESIGN(NO GFR-YARN) (Up to 4F)



- Blue**
- Green**
- Slate**
- Red**
- Yellow**
- Pink**
- Orange**
- Brown**
- White**
- Black**
- Violet**
- Aqua \ natural**

<b>COIL</b> 01 Kms & above	<b>FRP 2</b> 2 FRP	<b>YARN</b> NA	<b>JACKET</b> HDPE
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### CONSTRUCTION DETAILS

No of Fibre/Tube	: 1F per tube - Blue Colour : 4F per tube - Blue, Orange, Green & Aqua/Natural Or Any Colour
Loose Tube	: PBT Loose Tube Filled With Thixotropic gel
Tube Identification	
Peripheral Strength Member	2 FRP x 0.5mm FRP to meet tensile strength & anti buckling properties FRP (Non Metallic) - 2 Nos
Outer Jacket	: UV Proof HDPE - Black

### FIBRE CHARACTERISTICS (As per ITU-T Rec. G. 652 D)

#### ATTENUATION (Transmission Characteristics)

@ 1310 nm	: $\leq 0.36$ (dB/Km)
@ 1550 nm	: $\leq 0.25$ (dB/Km)
@ 1625 nm	: NA

#### DISPERSION

##### A. TOTAL DISPERSION (Chromatic Dispersion)

1285-1330 nm	: $< 3.5$ ps/nm.km
1270-1340 nm	: $< 5.3$ ps/nm.km
1550 nm	: $< 18.0$ ps/nm.km
1625 nm	: NA

##### B. POLARIZATION MODE DISPERSION AT 1310 & 1550 NM

At Fibre Stage	: $\leq 0.2$ ps/sqrt.km
At Cable Stage	: $\leq 0.3$ ps/sqrt.km

##### C. DISPERSION SLOPE & WAVE LENGTH

Zero Dispersion Wavelength	: 1300-1324 nm
Zero Dispersion Slope	: $\leq 0.092$ ps/nm <sup>2</sup> .km

#### GEOMETRICAL CHARACTERISTICS

Mode Field Diameter @ 1310 nm	: $9.2 \pm 0.4$ $\mu$ m
Mode Field Diameter @ 1550 nm	: $10.4 \pm 0.5$ $\mu$ m
Cladding Diameter	: $125 \pm 0.7$ $\mu$ m
Cladding Non Circularity	: $\leq 1\%$
Core Clad Concentricity Error	: $\leq 0.5$ $\mu$ m
Coating Diameter	: $245 \pm 10$ $\mu$ m
Coating/Cladding Concentricity	: $\leq 12$ $\mu$ m

#### CUT OFF WAVELENGTH

Fibre cut-off Wavelength	: $< 1320$ nm
Cable Cut-off Wavelength	: $< 1260$ nm

#### MECHANICAL & OPERATING CHARACTERISTICS

Operating Temperature	: $-20^{\circ}$ C to $+70^{\circ}$ C
Fibre Proof Test	: 1%
Stripability Force	: $1.3 < F < 8.9$
Fibre Curl	: 4 meter radius of curvature

### CABLE MECHANICAL & PHYSICAL CHARACTERISTICS

#### CABLE MECHANICAL CHARACTERISTICS

Max. Tensile Strength	: 400 N
Crush Resistance	: 1000 N/10 CM
Impact Resistance	: 10 Nm
Min. Bending Radius (Long Term)	: 20D (D= Cable Diameter mm)

#### CABLE PHYSICAL CHARACTERISTICS

Cable Diameter	: $4.5\text{mm} \pm 0.2$ mm
Nominal Cable Weight	: 15 Kgs
Packing Length	: $2/4$ KM $\pm 10\%$ & SLG $> 500$ Meter
Printing Details	: As Per Customer Requirement



## 📍 **Corporate & Head Office:**

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