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PRODUCT DESCRIPTION

HAS STATE OF THE ART TECHNOLOGY TO MANUFACTURE OPTIC FIBER CABLES FOR ADSS AREAL APPLICATION IN THE FIELD OF CATV (ALL DIELECTRIC SELF SUPPORTED CABLE). ACRYLATE PRIMARY COATED FIBER PLACED LOOSELY IN JELLY FILLED TUBE, VIRGIN HDPE JACKETED AND SUPPORTED BY UV COATED AND BOUNDED FRP RODS AND RIP CORD* EMBEDDED IN HDPE JACKET FOR SUPERIOR STRENGTH.

PRODUCTS

A. 12F * 2FRP * 1200TEX GLASS YARN * RIP CORD * 6.5mm DIAMETER (FRP Diameter 1.0mm)

FIBER COUNT	CABLE DIAMETER	CABLE WEIGHT	MAX PULLING TENSION	SAFE SPAN WITHOUT STAY WIRE
12F	6.5 mm	36 KG/KM	320 N	30 Meters

B. 2F-6F * 2FRP * 1200TEX GLASS YARN * RIP CORD * 6.0mm DIAMETER (FRP Diameter 1.0mm)

FIBER COUNT	CABLE DIAMETER	CABLE WEIGHT	MAX PULLING TENSION	SAFE SPAN WITHOUT STAY WIRE
2F, 4F & 6F	6.0 mm	30 KG/KM	300 N	30 Meters



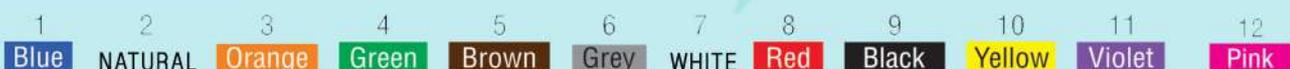
C. 2F-6F * 2FRP * 1200TEX GLASS YARN * 5.2mm DIAMETER (FRP Diameter 0.8mm)

FIBER COUNT	CABLE DIAMETER	CABLE WEIGHT	MAX PULLING TENSION	SAFE SPAN WITHOUT STAY WIRE
2F, 4F & 6F	5.2 mm	23 KG/KM	250 N	25 Meters

D. 2F-6F * 2FRP * 1200TEX GLASS YARN * 4.7mm DIAMETER (FRP Diameter 0.5mm)

FIBER COUNT	CABLE DIAMETER	CABLE WEIGHT	MAX PULLING TENSION	SAFE SPAN WITHOUT STAY WIRE
2F, 4F & 6F	4.7 mm	20 KG/KM	220 N	25 Meters

FIBER COLOUR





OPTICAL PERFORMANCE OF G 652D FIBERS

THE SINGLE MODE OPTICAL FIBER SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS :-

GEOMETRICAL CHARACTERISTICS

SI No	Parameters	Unit	Requirement
1	Cladding Diameter	um	125 ± 1
2	Cladding Non-Circularity	%	≤ 1
3	Primary Coating Material - Diameter	um	Dual UV Curable Acrylic 245 ± 10
4	Mode Field Diameter at 1310 nm	um	9.2 +/- 0.5
5	Mode Field Diameter at 1550 nm	um	10.4 +/- 0.5
6	Core/Cladding Concentricity error	um	≤ 0.5

TRANSMISSION CHARACTERISTICS

SI No	Parameters	Unit	Requirement
1	Attenuation in Cable At 1310nm At 1550nm	db / km db / km	≤ 0.35 ≤ 0.25
2	Chromatic dispersion In 1285 - 1330 nm In 1270 - 1340 nm At 1550 nm	ps / nm.km ps / nm.km ps / nm.km	≤ 3.5 ≤ 5.3 ≤ 18.0
3	Zero Dispersion slope	ps / (nm ² .km)	≤ 0.092
4	Zero Dispersion wave length range	nm	1302 - 1322
5	Polarization mode dispersion	ps / sqrt.km	≤ 0.2
6	Cut off wavelength	nm	1100 - 1320

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS OF FIBER

SI No	Parameters	Unit	Requirement
1	Fiber Proof Test Level	%	1.0
2	Temperature Variation of Attenuation From -40 to +85 deg C At 1310 nm At 1550 nm	db / km db / km	< 0.05 < 0.05
3	Bending induced attenuation at 1550nm 60mm diameter X 100 turns	db	≤ 0.1

CONSTRUCTION

- SINGLE LOOSE TUBE FILLED WITH THIXOTROPIC JELLY AND CENTRALLY PAGED IN THE CABLE
- 1200 TEX GLASS YARN FOR STRENGTH
- VIRGIN HDPE OUTER SHEATHING
- UV COATED AND BOUNDED FRP FOR STRENGTH
- FIBER COUNT OF 2F, 4F, 6F, 12F (SM G652D) OR A SERIES AS PER CUSTOMER REQUIREMENT

APPLICATIONS & FEATURES

- SUITABLE FOR AREAL OUTDOOR & INDOOR FTTH INSTALLATIONS (4.7MM CABLE)
- EASY INSTALLATION
- 4.7mm, 5.2mm, 6.0mm, 6.5mm Diameter
- DRUMS (2000Mtr+) AND COILS (500-2000 Mtr) PACKING AS PER CUSTOMER REQUIREMENT



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PRODUCTS

B. 24F * 2FRP * 2400TEX GLASS YARN * RIP CORD * 8.0mm DIAMETER (FRP Diameter 1.0mm)

<u>FIBER COUNT</u>	<u>CABLE DIAMETER</u>	<u>CABLE WEIGHT</u>	<u>MAX PULLING TENSION</u>	<u>SAFE SPAN WITHOUT STAY WIRE</u>
24 F	8.0 MM	40 KG/KM	800 N	35 MTR



SPECIAL FEATURES

WE HAVE USED 2 BOUNDED FRP'S FOR ADDITIONAL STRENGTH THEREBY ELEMENATING THE USE OF STAY WIRE FOR A SPAN OF AS LONG AS 40 METERS. WE HAVE MADE THIS 24F HIGHLY AFFORDABLE BY USING ONLY TWO-TUBES FOR 24F THAN THE CONVENTIONAL MULTI-TUBE 24F WHICH USES 6 TUBES IN GENERAL, THEREBY CUTTING THE COST BY NEARLY 30-40%. THE IDENTIFICATION OF THE FIBERS HAVE BEEN MADE EASIER BY USING TWO SEPERATE PBT TUBES WITH 12 FIBERS IN EACH TUIBE, WHICH IS OF A DIFFERENTCOLOUR, THEREBY MAKING IDENTIFICATION A LOT EASIER.



FIBER COLOUR

- | | | | | | | | | | | | |
|---------|------------|-----------|----------|----------|---------|----------|--------|----------|-----------|-----------|---------|
| 1 Blue | 2 NATURAL | 3 Orange | 4 Green | 5 Brown | 6 Grey | 7 WHITE | 8 Red | 9 Black | 10 Yellow | 11 Violet | 12 Pink |
| 13 Blue | 14 NATURAL | 15 Orange | 16 Green | 17 Brown | 18 Grey | 19 WHITE | 20 Red | 21 Black | 22 Yellow | 23 Violet | 24 Pink |



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ADVANTAGES

THE OPTICAL FIBER CABLE IS FLEXIBLE, EASY TO CARRY & TRANSPORT DUE TO ITS LIGHT WEIGHT AND SLEEK CONSTRUCTION IT HAS A GOOD TENSILE STRENGTH WITH A SPAN OF 40 MTR. WE CAN CUSTOMISE THE CABLE AS PER REQUIREMENT OF THE CLIENT AS WELL.

Specification	
Fiber count	24
Tubes	2 tubes
Fiber Type	G652D/G657A
Max Attenuation dB/KM	1310nm: 0.36 1550nm: 0.23
Strengthening members	RIP Cord, 2 FRP rods, 1200Tex Glass yarn
Cable Diameter	8.0mm
Cable Weight	40kg
Temperature (Install/Operation/Storage)	-10°C to +70°C
Bend Radius	15D
Span	45 Mtr
Tensile Strength	800 N
Max Operating tension at avg 65kmph Wind	750 N
Packing	Wooden drums and short length coils
Printing	SCTEK Brand-Meter Marking-Year of Mfg-Cable ID

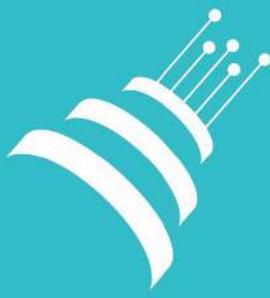
CONSTRUCTION

- TWO LOOSE TUBES FILLED WITH THIXOTROPIC JELLY AND CENTRALLY PACED IN THE CABLE
- 1200 TEX GLASS YARN FOR STRENGTH
- VIRGIN HDPE OUTER SHEATHING
- FIBER COUNT OF 24F (SM G652D/G652A1)
- 2 FRP'S FOR STRENGTH
- RIP CORD FOR ADDITIONAL STRENGTH

APPLICATIONS & FEATURES

- 45 Mtr LONG SPAN WITJOUT STAY WIRE
- EASY INSTALLATION
- DRUMS (2000Mtr +) AND COILS (500-2000 Mtr) PACKING AS PER CUSTOMER REQUIREMENT
- 12 FIBER COLOURS IN TWO DIFFERENT COLOUR LOOSE TUBES FOR EASY IDENTIFICATION.

NOTE: Offered fibers will be single mode type in conformance with ITU - T G 652D



OPTICAL PERFORMANCE OF G 652D FIBERS

THE SINGLE MODE OPTICAL FIBER SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS :-

GEOMETRICAL CHARACTERISTICS

SI No	Parameters	Unit	Requirement
1	Cladding Diameter	um	125 ± 1
2	Cladding Non-Circularity	%	≤ 1
3	Primary Coating Material - Diameter	um	Dual UV Curable Acrylic 245 ± 10
4	Mode Field Diameter at 1310 nm	um	9.2 +/- 0.5
5	Mode Field Diameter at 1550 nm	um	10.4 +/- 0.5
6	Core/Cladding Concentricity error	um	≤ 0.5

TRANSMISSION CHARACTERISTICS

SI No	Parameters	Unit	Requirement
1	Attenuation in Cable At 1310nm At 1550nm	db / km db / km	≤ 0.35 ≤ 0.25
2	Chromatic dispersion In 1285 - 1330 nm In 1270 - 1340 nm At 1550 nm	ps / nm.km ps / nm.km ps / nm.km	≤ 3.5 ≤ 5.3 ≤ 18.0
3	Zero Dispersion slope	ps / (nm ² .km)	≤ 0.092
4	Zero Dispersion wave length range	nm	1302 - 1322
5	Polarization mode dispersion	ps / sqrt.km	≤ 0.2
6	Cut off wavelength	nm	1100 - 1320

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS OF FIBER

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1	Fiber Proof Test Level	%	1.0
2	Temperature Variation of Attenuation From -40 to +85 deg C At 1310 nm At 1550 nm	db / km db / km	< 0.05 < 0.05
3	Bending inducted attenuation at 1550nm 60mm diameter X 100 turns	db	≤ 0.1



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PRODUCTS

6F * 2FRP * 1200TEX GLASS YARN * RIP CORD * 6.0 mm DIAMETER (FRP Diameter 1.0mm)

<u>FIBER COUNT</u>	<u>CABLE DIAMETER</u>	<u>CABLE WEIGHT</u>	<u>MAX PULLING TENSION</u>	<u>SPAN LENGTH</u>
6 F	6.0 MM	30 KG/KM	300 N	40 MTR



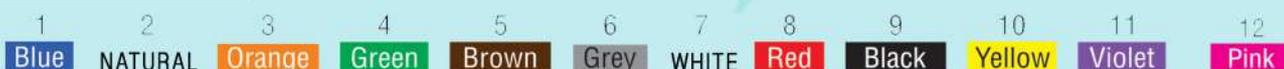
CONSTRUCTION

- SINGLE LOOSE TUBE FILLED WITH THIXOTROPIC JELLY AND CENTRALLY PACED IN THE CABLE
- 1200 TEX GLASS YARN FOR STRENGTH
- VIRGIN HDPE OUTER SHEATHING
- FIBER COUNT OF 2F, 4F, 6F, 12F (SM G652D)
- BARE FIBER OF A1 OPTION AVAILABLE ON CUSTOMER REQUIREMENT

APPLICATIONS & FEATURES

- SUITABLE FOR AREAL OUTDOOR & INDOOR FTTH INSTALLATIONS
- EASY INSTALLATION
- 6.5mm Diameter Provides Superior Strength
- DRUMS (2000Mtr +) AND COILS (500-2000 Mtr) PACKING AS PER CUSTOMER REQUIREMENT

FIBER COLOUR





OPTICAL PERFORMANCE OF G 652D FIBERS

THE SINGLE MODE OPTICAL FIBER SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS :-

GEOMETRICAL CHARACTERISTICS

SI No	Parameters	Unit	Requirement
1	Cladding Diameter	um	125 ± 1
2	Cladding Non-Circularity	%	≤ 1
3	Primary Coating Material - Diameter	um	Dual UV Curable Acrylic 245 ± 10
4	Mode Field Diameter at 1310 nm	um	9.2 +/- 0.5
5	Mode Field Diameter at 1550 nm	um	10.4 +/- 0.5
6	Core/Cladding Concentricity error	um	≤ 0.5

TRANSMISSION CHARACTERISTICS

SI No	Parameters	Unit	Requirement
1	Attenuation in Cable At 1310nm At 1550nm	db / km db / km	≤ 0.35 ≤ 0.25
2	Chromatic dispersion In 1285 - 1330 nm In 1270 - 1340 nm At 1550 nm	ps / nm.km ps / nm.km ps / nm.km	≤ 3.5 ≤ 5.3 ≤ 18.0
3	Zero Dispersion slope	ps / (nm ² .km)	≤ 0.092
4	Zero Dispersion wave length range	nm	1302 - 1322
5	Polarization mode dispersion	ps / sqrt.km	≤ 0.2
6	Cut off wavelength	nm	1100 - 1320

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS OF FIBER

SI No	Parameters	Unit	Requirement
1	Fiber Proof Test Level	%	1.0
2	Temperature Variation of Attenuation From -40 to +85 deg C At 1310 nm At 1550 nm	db / km db / km	< 0.05 < 0.05
3	Bending induced attenuation at 1550nm 60mm diameter X 100 turns	db	≤ 0.1



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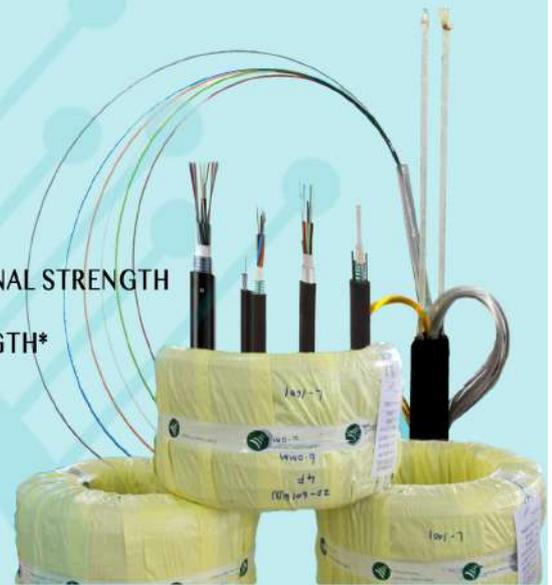
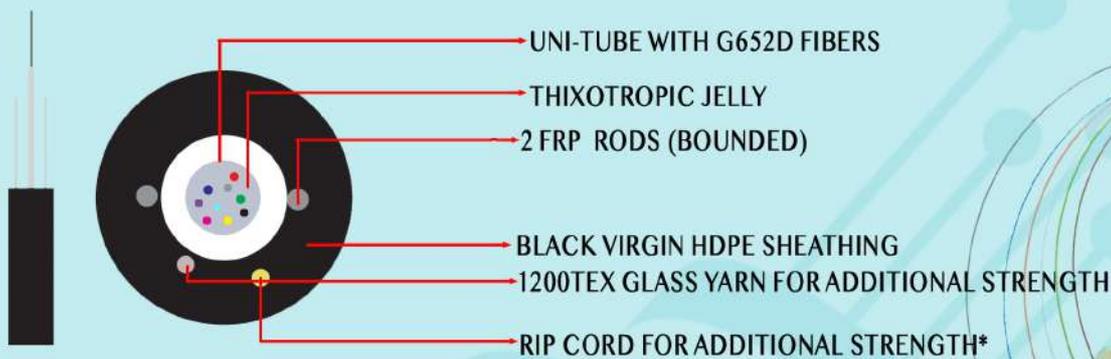
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PRODUCTS

6F * 2FRP * 1200TEX GLASS YARN * RIP CORD * 6.0mm DIAMETER (FRP Diameter 1.0mm)

FIBER COUNT	CABLE DIAMETER	CABLE WEIGHT	MAX PULLING TENSION	SAFE SPAN WITHOUT STAY WIRE
6F	6.0MM	30 KG/KM	300 N	40 MTR



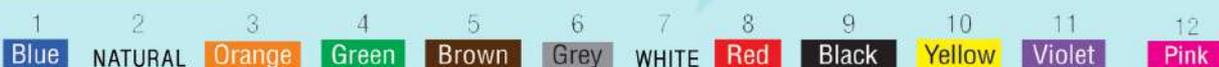
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- BARE FIBER OF A1 OPTION AVAILABLE ON CUSTOMER REQUIREMENT

APPLICATIONS & FEATURES

- SUITABLE FOR AREAL OUTDOOR & INDOOR FTTH INSTALLATIONS
- EASY INSTALLATION
- 6.0mm Diameter Provides Superior Strength
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FIBER COLOUR





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TRANSMISSION CHARACTERISTICS

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1	Attenuation in Cable At 1310nm	db / km	≤ 0.35
	At 1550nm	db / km	≤ 0.25
2	Chromatic dispersion In 1285 - 1330 nm	ps / nm.km	≤ 3.5
	In 1270 - 1340 nm	ps / nm.km	≤ 5.3
	At 1550 nm	ps / nm.km	≤ 18.0
3	Zero Dispersion slope	ps / (nm ² .km)	≤ 0.092
4	Zero Dispersion wave length range	nm	1302 - 1322
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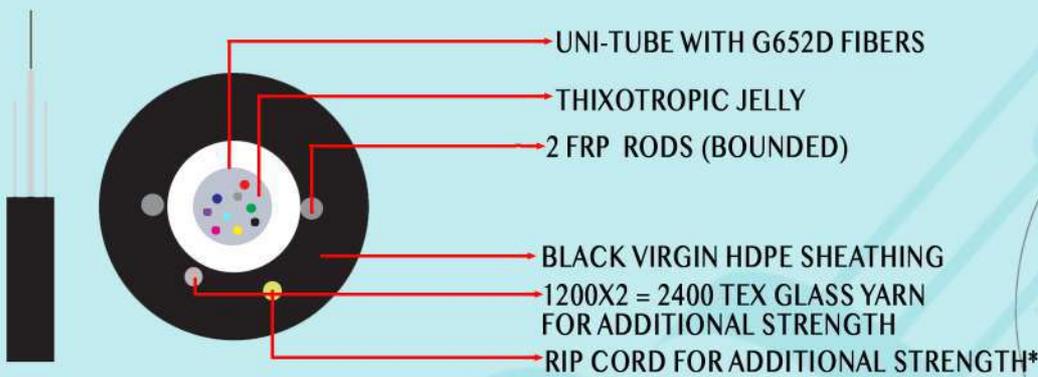
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PRODUCTS

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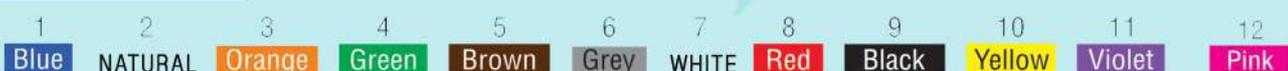
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- FIBER COUNT OF 2F, 4F, 6F, 12F (SM G652D)
- BARE FIBER OF A1 OPTION AVAILABLE ON CUSTOMER REQUIREMENT

APPLICATIONS & FEATURES

- SUITABLE FOR AREAL OUTDOOR & INDOOR FTTH INSTALLATIONS
- EASY INSTALLATION
- 6.5mm Diameter Provides Superior Strength
- DRUMS (2000Mtr +) AND COILS (500-2000 Mtr) PACKING AS PER CUSTOMER REQUIREMENT

FIBER COLOUR





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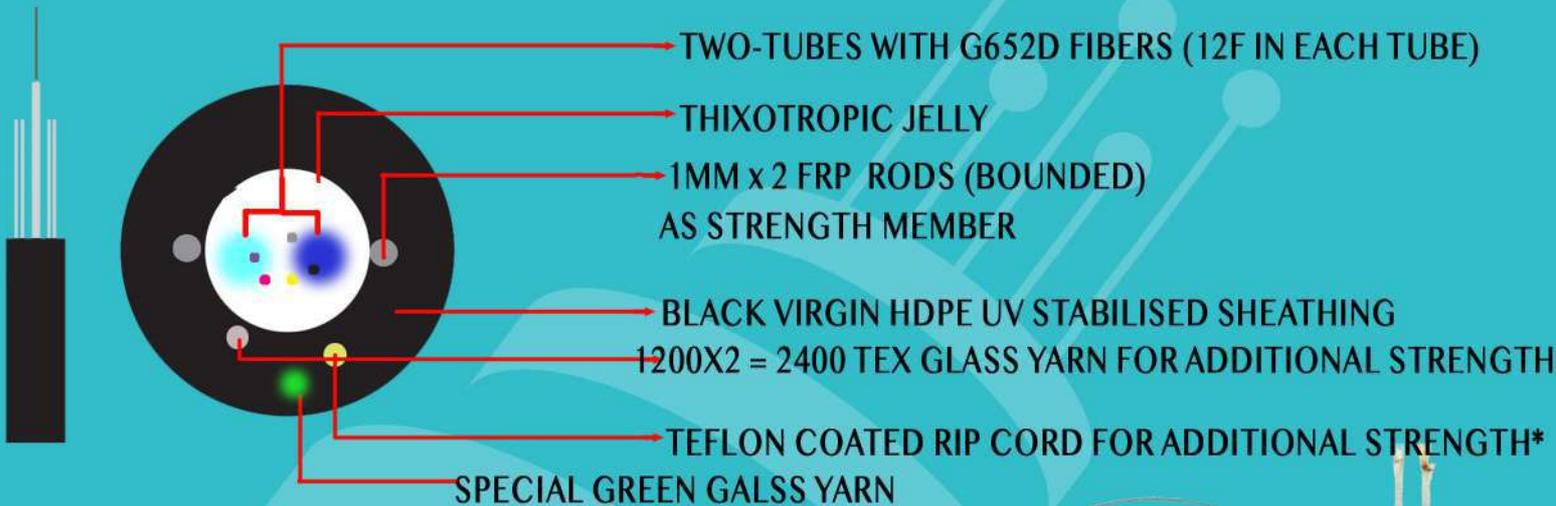
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SPECIAL FEATURES

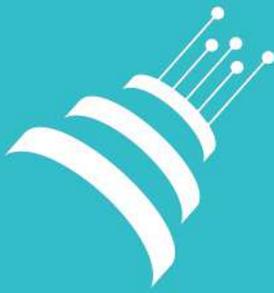
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FIBER COLOUR

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Tensile Strength	800 N
Max Operating tension at avg 65kmph Wind	750 N
Packing	Wooden drums and short length coils
Printing	SCTEK Brand-Meter Marking-Year of Mfg-Cable ID

CONSTRUCTION

- TWO LOOSE TUBES FILLED WITH THIXOTROPIC JELLY AND CENTRALLY PACED IN THE CABLE
- 1200 TEX GLASS YARN FOR STRENGTH
- VIRGIN HDPE OUTER SHEATHING
- FIBER COUNT OF 24F (SM G652D/G652A1)
- 2 FRP'S FOR STRENGTH
- RIP CORD FOR ADDITIONAL STRENGTH

APPLICATIONS & FEATURES

- 45 Mtr LONG SPAN WITHOUT STAY WIRE
- EASY INSTALLATION
- DRUMS (2000Mtr +) AND COILS (500-2000 Mtr) PACKING AS PER CUSTOMER REQUIREMENT
- 12 FIBER COLOURS IN TWO DIFFERENT COLOUR LOOSE TUBES FOR EASY IDENTIFICATION.

NOTE: Offered fibers will be single mode type in conformance with ITU - T G 652D



OPTICAL PERFORMANCE OF G 652D FIBERS

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1	Fiber Proof Test Level	%	1.0
2	Temperature Variation of Attenuation From -40 to +85 deg C At 1310 nm At 1550 nm	db / km db / km	< 0.05 < 0.05
3	Bending induced attenuation at 1550nm 60mm diameter X 100 turns	db	≤ 0.1