



OPTICAL FIBRE CABLES

For Connecting the Future



One of the largest Optical Fiber Cable Manufacturer

WCOL GROUP COMPANIES



WEST COAST PAPER MILLS LIMITED

-Manufacturer of paper for printing, writing and packing including food grade



JAYSHREE CHEMICALS LIMITED

- Windmill Power Production



BANGUR EXIM

-In the business of Minerals and Metals, Specialty Chemicals and Polymers



GLOSTER CABLES

- Manufacturer of HT Power cable, LT Power & Control cable, LT Flexible cable and LT FRLSH Flexible wire.



KILKOTAGIRI AND TIRUMBADI PLANTATIONS LTD

-Grower and Manufacturer of Tea, Coffee and Spices.

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West Coast Optilinks (WCOL), formerly known as "Sudarshan Telecom" (A division of West Coast Paper Mills Ltd.), belonging to a USD 375 Million fast growing Industrial business house "S.K. Bangur Group", is a leading manufacturer of Telecom Cables (Optical Fiber Cables and Copper Telephone Cables) in India having its state of the art manufacturing facility in a Hi-Tech Electronics zone at Mysore (about 140 Km from Bangalore) in South India.

West Coast Optilinks started its commercial production in 1996 at Mysore with technology from Royle Systems Group, USA and an initial technical collaboration / support from Sumitomo, Japan. Later, the capacity of the plant was enhanced by installing latest generation Buffering and Stranding equipment from Rosendahl, Austria for manufacture of Optical Fiber cables.

West Coast Optilinks further diversified to manufacture Polythene Insulated Jelly filled (PIJF) copper telephone cables in 2001 having installed latest equipments from leading machinery manufacturers like Nextrom.

The manufacturing / testing facility is equipped with sophisticated equipments and manned by highly skilled and experienced Engineers and Technicians.

The company has annual capacity to produce over 107000 Km Optical Fiber cables (Approx. 2 million Fkm) with Fiber count up to 432F.

In the year 2015, Company has installed the 350OFC line from ZTT China to increase capacity to 150%

Recently the company has introduced new products FRP (Fibre Reinforced Plastic) and Glass Roving in the year 2014 for captive consumption as well as outside sale.





Opti-LINKS™

Optical Fiber Cables



FRP ROD Cables



Glass Roving

Opti-DUCT Cable- Multitube

Opti-DUCT cable- Unitube

Opti-BLOWN Cable- Multitube

Opti-BLOWN Cable- Unitube

Opti-INDOOR/OUTDOOR Cable- Multitube

Opti-INDOOR/OUTDOOR Cable- Unitube

Opti-ARM Cable- Multitube Single Sheath



Opti-LINKS™ (WCOL OPTICAL FIBER CABLE RANGE)

Opti-ARM Cable- Multitube Double Sheath

Opti-ARM Cable- Unitube

Opti-AERIAL Cable- Multitube Single/Double Sheath

Opti-AERIAL Cable- Multitube Fig-8

Opti-PD Cable - Tight Buffered

Opti-FTTH Cable- High Bend Flexi Drop

Opti-FTTH Cable- Self Supported Drop

Performance Standard

All Opti-LINKS (WCOL OPTICAL FIBER CABLE RANGE) complies with the international standard IEC.60794.

Optical Fibre and Tube Identification

WCOL standard fibre and tube colours are to EIA 598 as shown in table below.

Fiber & Tube Color	1	2	3	4	5	6	7	8	9	10	11	12
EIA/TIA 598	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Customer specific colour configurations are available on request.

Fibre Properties

Refer to Appendix A for the following fibre properties tables:

- Single Mode G.652D
- Single Mode G.657A1 and A2
- Multimode 50/125 and 62.5/125

Marking On Cable

West Coast Optilinks - Telephone symbol - Laser Symbol – Fiber count- Fiber Type –Product Code- Year of manufacture- Length Code- Meter Marking

Product Testing

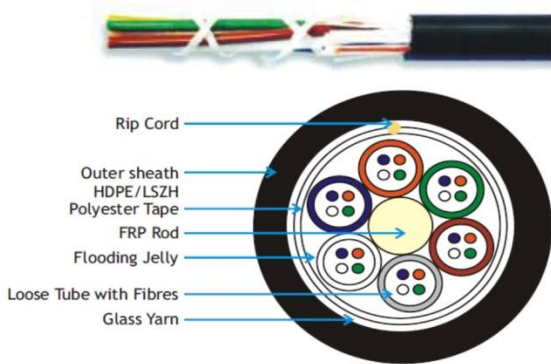
At WCOL the following product testing is carried out on all our Cable products.

Parameter	Test Method
Tensile Strength Test	IEC 60794-1-2-E1
Compressive Stress Test	IEC 60794-1-2-E3
Cable Bend Test	IEC 60794-1-2-E11
Impact Test	IEC 60794-1-2-E4
Torsion Test	IEC 60794-1-2-E7
Kink Test	IEC 60794-1-2-E10
Temp. Cycling Test	IEC 60794-1-2-F5
Repeated Bend Test	IEC 60794-1-2-E6
Abrasion Requirement	IEC 60794-1-2-E2
Water Penetration Test	IEC 60794-1-2-F1

Cable Applications

This optical fibre cable range is all dielectric and designed for installation into a duct by blowing or pulling.

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Available with upto 144 Fibre
- Multiple Fibre types including hybrids
- Central strength members available in metallic or dielectric
- Dry core standard (Optional)
- Standard tube size for all fibre counts

Technical Characteristics

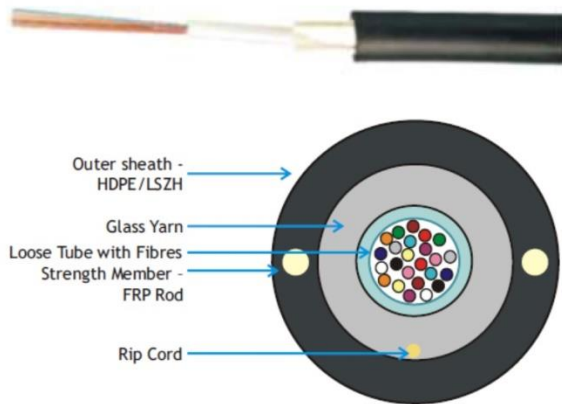
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	10.0	80	2000	1000	100	200	-10 ⁰ to +50 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	10.2	85	2000	1000	102	204	-10 ⁰ to +50 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	10.5	90	2000	1000	105	210	-10 ⁰ to +50 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	11.5	120	3000	1500	115	230	-10 ⁰ to +50 ⁰ C	-40 ⁰ to +70 ⁰ C
98-120	13.0	155	3000	1500	130	260	-10 ⁰ to +50 ⁰ C	-40 ⁰ to +70 ⁰ C
122-144	14.5	180	3000	1500	145	290	-10 ⁰ to +50 ⁰ C	-40 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

This optical fibre cable range is all dielectric and designed for installation into a duct by blowing or pulling.

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 24F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

20,

- Available with upto 24 fibres
- Multiple Fibre types including hybrids
- Outer Strength members available in metallic or dielectric
- Small Cable Diameter

Technical Characteristics

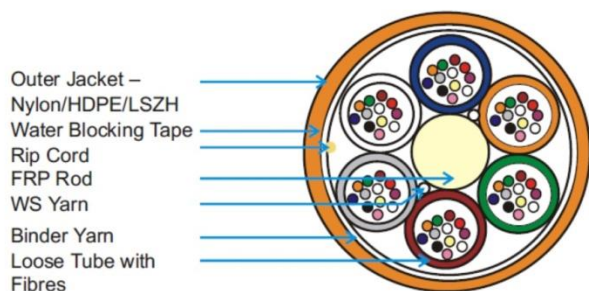
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-12	8.0	50	1000	800	80	160	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
16-24	9.0	65	1000	800	90	180	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

- Underground blowing/pushing in ducts
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul network
- Broadband network
-

Cable Construction



SPECIFICATIONS

Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple Fibre types available
- Multiple stranded tubes
- Dry Core Standard (Optional)

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-48	6.0	25	500	200	60	120	-30 ⁰ to +60 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	7.2	35	1000	500	72	142	-30 ⁰ to +60 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	7.5	50	1000	500	75	150	-30 ⁰ to +60 ⁰ C	-40 ⁰ to +70 ⁰ C
98-144	9.2	70	1500	750	92	184	-30 ⁰ to +60 ⁰ C	-40 ⁰ to +70 ⁰ C

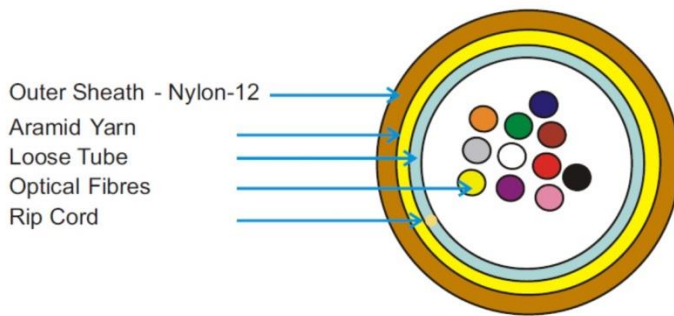
*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

Inside building, suitable for Indoor use



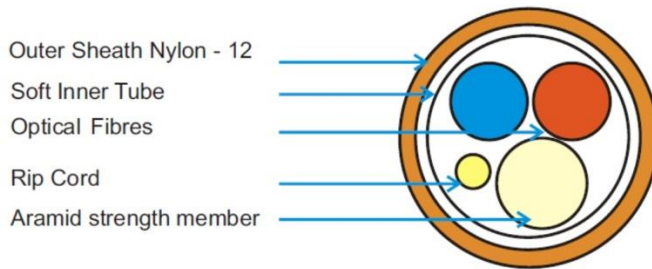
Cable Construction & Technical Characteristics



SPECIFICATIONS

Fibre Count	Available from 2F to 24F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-12	3.8	11	800	400	38	76	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
14-24	5.6	24	1000	500	56	112	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C



SPECIFICATIONS

Fibre Count	Available from 2F to 4F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

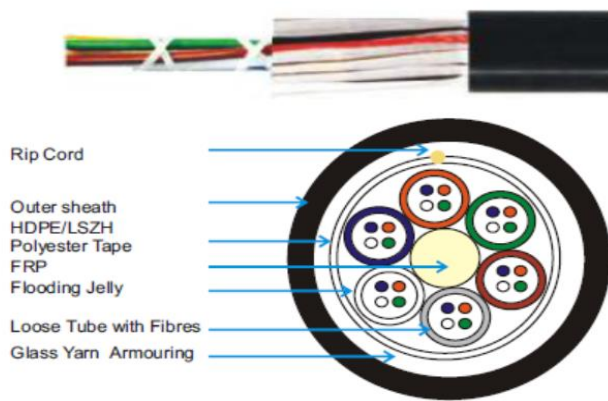
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2	1.7	2.3	40	20	40	60	-30 ⁰ to +60 ⁰ C	-40 ⁰ to +70 ⁰ C
4	1.9	2.7	40	20	40	60	-30 ⁰ to +60 ⁰ C	-40 ⁰ to +70 ⁰ C

Opti-INDOOR/OUTDOOR- Multitube

Cable Applications

- Underground duct, Aerial and Direct Burial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Cable Construction



SPECIFICATIONS

Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Available with upto 144 fibres
- Multiple Fibre types including hybrid
- Dry core standard (Optional)
- Uni-tube designs are also available upto 24 Fibres.

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	10.5	90	2000	1000	105	210	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	10.8	92	2000	1000	108	216	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	11.5	110	2000	1000	115	230	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	14.5	175	4000	2000	145	290	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
98-120	15.5	205	4000	2000	155	310	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
122-144	17.0	255	4000	2000	170	340	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

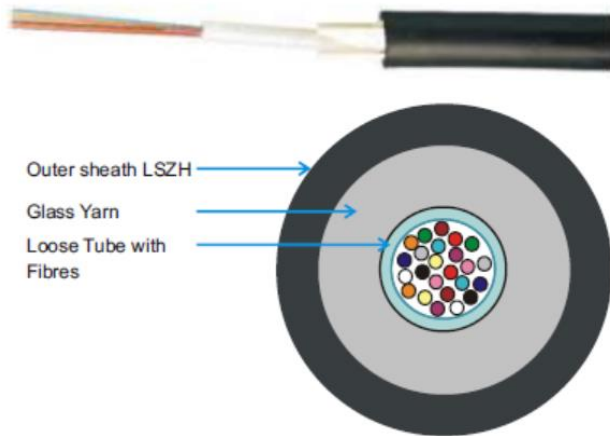
*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request

Opti-INDOOR/OUTDOOR- Unitube

Cable Applications

- Indoor and Outdoor
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 24F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple Fibre types including hybrids
- Small cable diameter

Technical Characteristics

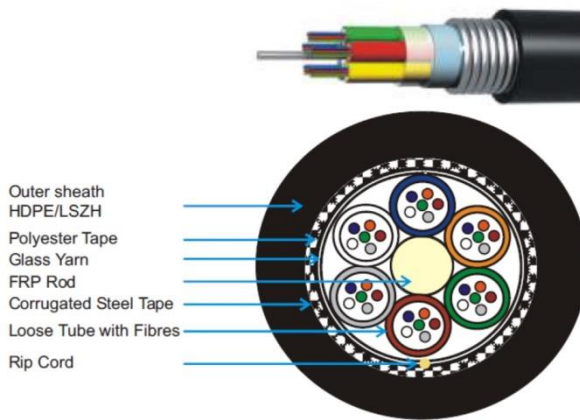
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-12	9.0	62	2000	1000	90	180	-15 ⁰ to +65 ⁰ C	-20 ⁰ to +60 ⁰ C
12-24	10.0	80	2000	1000	100	200	-15 ⁰ to +65 ⁰ C	-20 ⁰ to +60 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request

Cable Applications

- In areas where high mechanical load is required
- Suitable in area of rodent menace
- Direct burial & Inside duct - PE Outer Sheath
- Inside duct - FR PVC / HFFR / LSZH Outer Sheath

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple Fibre types including hybrid
- Dry core standard (Optional)
- Corrugated Steel Armoured

Technical Characteristics

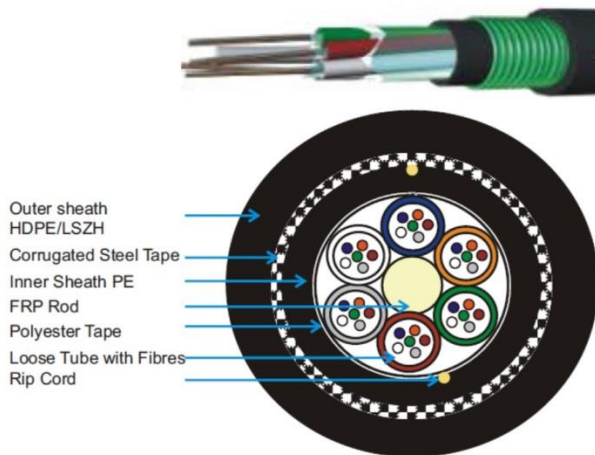
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	11.5	130	4000	2000	115	230	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	11.8	135	4000	2000	118	236	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	12.5	160	4000	2000	125	250	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	13.8	185	5000	2500	138	276	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
98-120	15.5	235	5000	2500	155	310	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
122-144	16.5	270	5000	2500	165	330	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

- In areas where high mechanical load is required
- Suitable in area of rodent menace
- Direct burial & Inside duct - PE Outer Sheath
- Inside duct - FR PVC / HFFR / LSZH Outer Sheath

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple fibre types including hybrid
- Dry core standard (Optional)
- Corrugated Steel Armour

Technical Characteristics

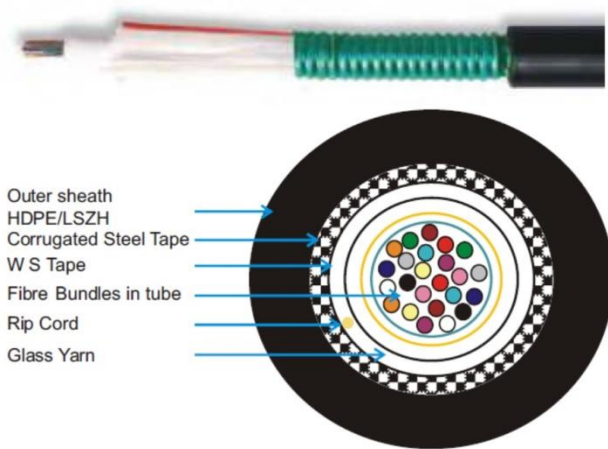
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	13.8	170	2670	1500	138	276	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	14.5	195	2670	1500	145	290	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	15.0	200	2670	1500	150	300	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	16.0	240	3000	2000	160	320	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
98-120	17.5	285	3000	2000	175	350	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
122-144	18.5	320	3000	2000	185	370	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

- Direct buried and underground duct
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 4F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple Fibre types
- Corrugated Steel Armoured
- Highly flexible

Technical Characteristics

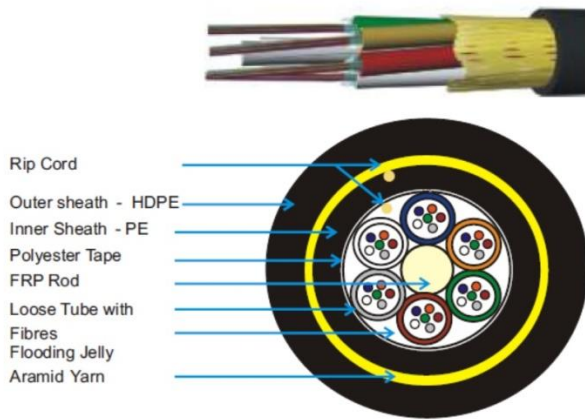
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
6	8.8	90	1500	750	88	176	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
12	8.8	90	1500	750	88	176	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
24	10.5	100	1500	750	105	210	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

- Aerial, Underground duct and Direct Burial
- Trunk, distribution and feeder cable
- Power utilities

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Anti-tracking resistance
- Multiple fiber types including Hybrids
- Self-supporting
- Unitube designs available

Technical Characteristics

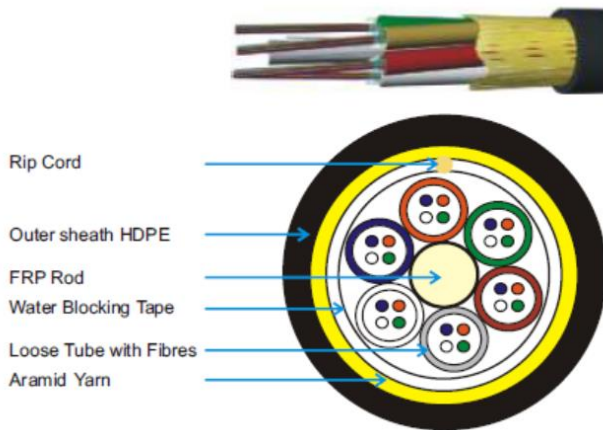
FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	13.5	140	4000	2500	135	270	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	13.5	140	4000	2500	135	270	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	14.5	160	5000	3000	145	290	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	15.5	180	6000	4000	155	310	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
98-120	17.0	220	6000	4000	170	340	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
122-144	18.5	260	6000	4000	185	370	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Cable Applications

- Aerial, Underground duct and Direct Burial
- Trunk, distribution and feeder cable
- Power utilities

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Available with upto 144 fibres
- Multiple Fibre types including hybrids
- Dry core standard (Optional)
- Uni-tube designs are also available upto 24 Fibres

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	11.5	120	3000	1500	115	230	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	11.5	130	3000	1500	115	230	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	12.5	150	3000	1500	125	250	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	13.5	180	4000	2000	135	270	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
98-144	16.5	195	4000	2000	165	330	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

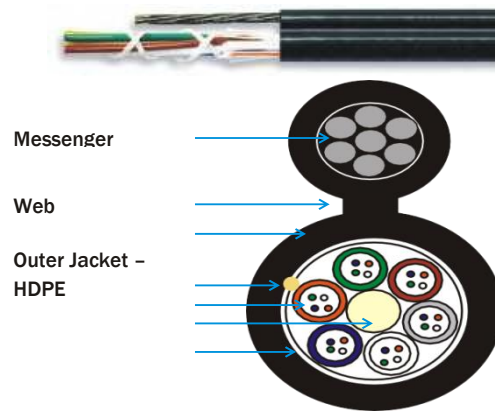
*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Opti-AERIAL-Multitube Fig-8

Cable Applications

- Aerial self-support
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 144F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Available upto 144 fibres
- Multiple Fibre types including hybrids
- Wet core (Optional)
- Confirms to standard pole attachment hardware
- Uni-tube designs are also available upto 24Fibres.

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-24	10.0 X 17.0	130	5000	2500	100	200	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
26-48	10.0 X 17.0	130	5000	2500	100	200	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
50-72	11.0 X 17.5	145	6000	3000	110	220	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
74-96	12.2 X 18.5	175	6000	3000	122	244	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
98-120	14.0 X 20.5	200	6000	3000	140	280	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C
122-144	15.5 X 22.0	230	6000	3000	155	310	-30 ⁰ to +75 ⁰ C	-40 ⁰ to +70 ⁰ C

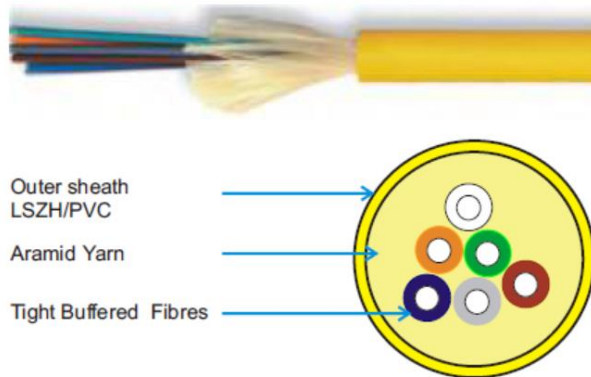
*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Opti-PD Cable - Tight Buffered

Cable Applications

- Indoor, Ducts/Conduits
- Local loop, Broadband network

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 24F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple Fibre types
- Outer jacket PVC (Optional)

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
1-4	5.0	26	1000	500	50	100	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C
6-8	5.8	32	1000	500	58	116	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C
10-12	6.2	36	1000	500	62	124	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C
14-16	7.5	52	1200	600	75	150	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C
18-24	8.0	60	1200	600	80	160	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C

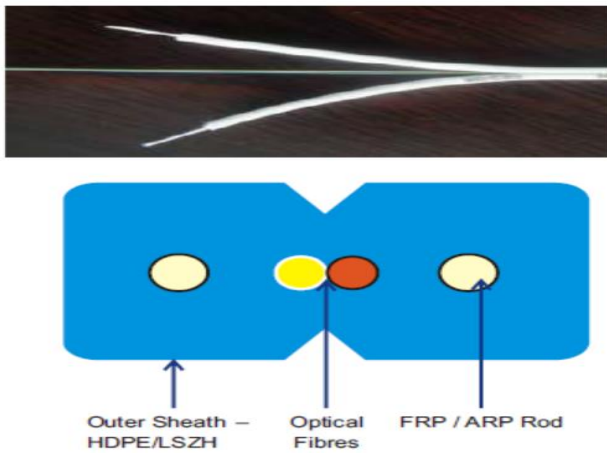
*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Opti-FTTH Cable- High Bend Flexi Drop

Cable Applications

- FTTH Aerial and Duct/Conduit
- Local loop
- Broadband network

Cable Construction



SPECIFICATIONS

Fibre Count	Available from 2F to 4F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Available upto 4 fibres
- Multiple Fibre types including bend resistant G 657A
- Metallic strength members also available

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2	2.0 x 3.1	10	200	100	30	60	-10 ⁰ to +70 ⁰ C	-40 ⁰ to +70 ⁰ C
4	2.2 x 3.5	11	200	100	30	60	-10 ⁰ to +70 ⁰ C	-40 ⁰ to +70 ⁰ C

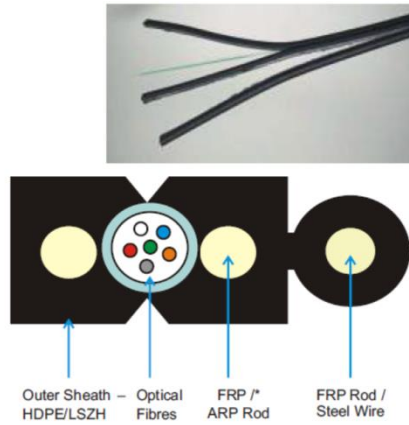
*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Opti-FTTH Cable- Self Supported Drop

Cable Applications

- FTTX
- Aerial
- Local loop
- Broadband network

Cable Construction



SPECIFICATIONS	
Fibre Count	Available from 2F to 12 F
Standards Compliance	Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Cable Features and Benefits

- Multiple Fibre types including bend resistant
- Strength members available in metallic also

Technical Characteristics

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)		TEMPERATURE RANGE	
			Installation	Operation	Temporary	Permanent	Installation	Operating
2-6	6.8 x 3.0	23	1200	600	60	120	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C
8-12	7.0 x 3.0	25	1200	600	60	120	-25 ⁰ to +75 ⁰ C	-30 ⁰ to +70 ⁰ C

*The above shown cable designs are WCOL standard designs. Customized designs can also be offered on specific request.

Descriptions

West Coast Optilinks FRP Rods (Central Strength Member), round rods located in the center of fiber optic cables. Combine the high performance properties of glass reinforcements with unique resin formulations to produce strong and cost-efficient cable reinforcement. West Coast Optilinks FRP is specially designed for use in all dielectric cable applications that require superior dimensional stability. The long, splice-free lengths enhance productivity in cabling operations.

Also used in other tele-communications applications, the West Coast Optilinks FRP is typically located in the center of the cable with loose tubes or tight buffered fibers stranded around them. We are producing backbone of OFC.



Benefits

- Cable performance reliability
- Reliable cable installation
- Design versatility
- Increased productivity and reduced downtime

Product Solutions

West Coast Optilinks Central Strength Members serve a dual purpose. The tensile strength provides protection during installation and the rigidity helps prevent cable buckling during the life of the cable.

Customer Benefits

We understand that not only meeting, but exceeding your critical performance criteria translates into success for you today and in the future. That is why we engineer West Coast Optilinks Central Strength Members to provide the following benefits:

Features

- Superior dimensional stability
- High tensile modulus
- Designed for all-dielectric or metallic cable applications
- Provides anti-buckling properties and protection during installation
- Inexpensive way to increase diameter to accommodate designs with high fiber counts
- Long, splice-free lengths
- Matches desired length specifications, which increases equipment uptime and productivity
- Consistent diameter and shape
- Adhesion to up jacketing/sheathing materials

Standard Lengths

> 50 kms splice free lengths

Manufacturing Capability

0.5 mm to 4.5 mm with very close diameter tolerance

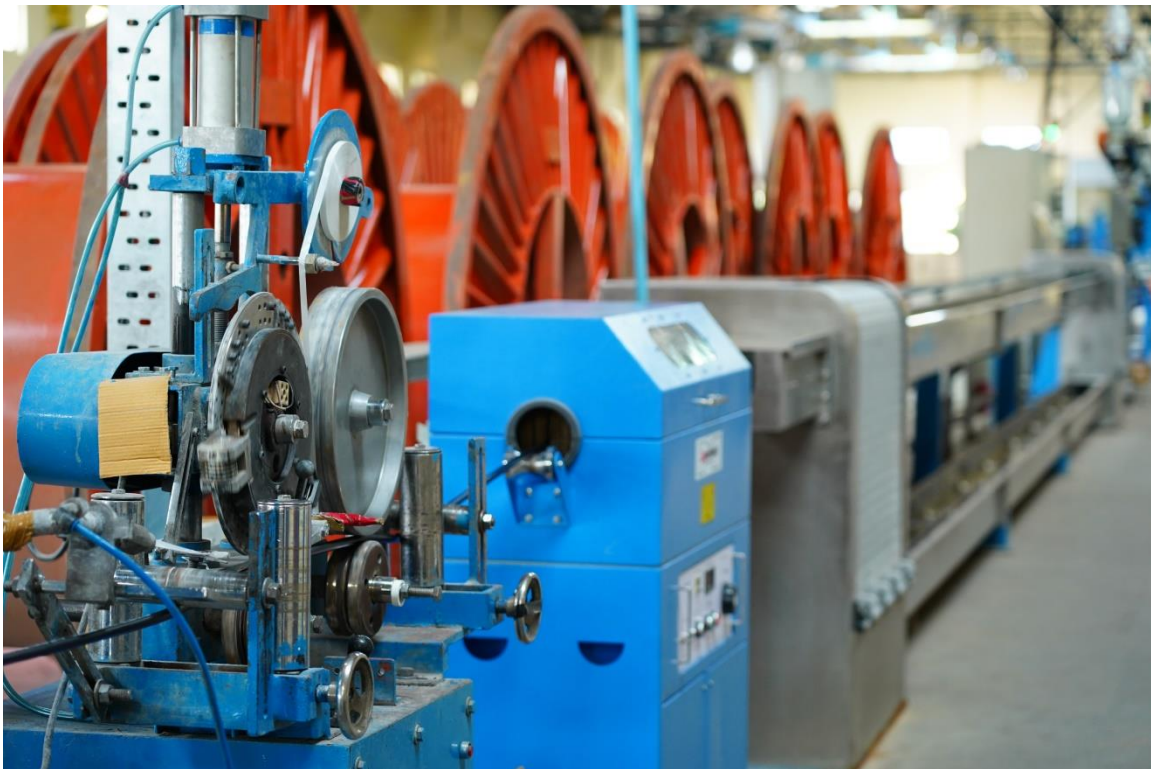
Typical Product Characteristics

Physical Properties

Glass content	> 80 % by weight
Density	1.9 to 2.2 gm/cc
Diameter stability	0.05 mm
Ovality	< 0.05 mm
Splices	None

Mechanical Properties

	Spec Value	Test Method
Ultimate tensile strength	> 1.40 Gpa	ASTM D 3916
Tensile modulus	> 50 Gpa	ASTM D 3916
Min. bend radius	25 x D @ 25°C	
Heat stress tolerance (bend radius)	8 Days @ 100°C, 50 X D	
Coefficient of thermal expansion	5.2 X 10	ASTM D 696
Shrinkage	0%	
Flexural modulus	> 50 Gpa	ASTM D 790
Water absorption after 24 hrs	< 0.1 %	ASTM D 570







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