



WEST COAST  
OPTILINKS

(A Division of West Coast Paper Mills Ltd)

*Connecting the future—*



***Enabling progress  
through connectivity***

# ABOUT WEST COAST OPTILINKS

S.K. Bangur Group has a widely known presence in the Indian and global market. The group's West Coast Paper Mills Limited, through its Cable division "West Coast Optilinks" (WCO) is active in the telecom market.

WCO started its commercial production in 1996 at Mysore with world class technology. We are at the forefront of the optical fibre revolution, providing cutting-edge solutions for the digital age. With our unwavering commitment to innovation and excellence, we have become a trusted partner for business across various industries.

With state-of-the-art manufacturing facilities in Mysuru and Hyderabad (South India), WCO exports to 25+ countries and serves a wide range of industries including Telecommunications, Broadband, Infrastructure, Oil & Gas, Petroleum, Defence, Railways, Power and Wind Energy.

The manufacturing facilities are equipped with sophisticated equipment and are manned by highly skilled and experienced Engineers and Technicians. We are a team of skilled engineers, constantly pushing the boundaries. WCO business goals are driven by customer-centricity, R&D and sustainability.



Strengthening backward integration and future readiness, WCO has expanded into Optical Fibre manufacturing, supported by a new Industry 4.0-enabled manufacturing plant in Hyderabad, India. This enables greater control over quality, scalability and faster go-to-market capabilities.

WCO has been striving consistently hard to improve its quality benchmarks. At the heart of WCO's success is its strong customer focused research initiative, backed by a sophisticated product development centre and a team of qualified professionals.

WCO as world-class manufacturer of optical cable products, grows together with its employees, establishes strategic partnerships with its customers and suppliers to give all its efforts to support the world-wide development.

To further support our customers, we are also strengthening our position in building telecommunication networks. Our EPC team focuses on designing and building highly efficient networks to meet the stringent customer requirements.



## SK Bangur Group

Trusted Legacy

### West Coast Paper Mills Limited



One of the oldest and the largest producer of Paper for printing, Writing and packing in India.

### Andhra Paper Mills Limited

one of the largest integrated paper and pulp manufacturers in India.



### Gloster Cables Limited



A leading manufacturer of PVC & XLPE power & control cables (LT&HT).

### Jayshree Chemicals Limited, (JCL)

Windmill Power Production



### Kilkotagiri and Thirumbadi Plantations Ltd



Grower and manufacturer of Tea, Coffee and Spices.



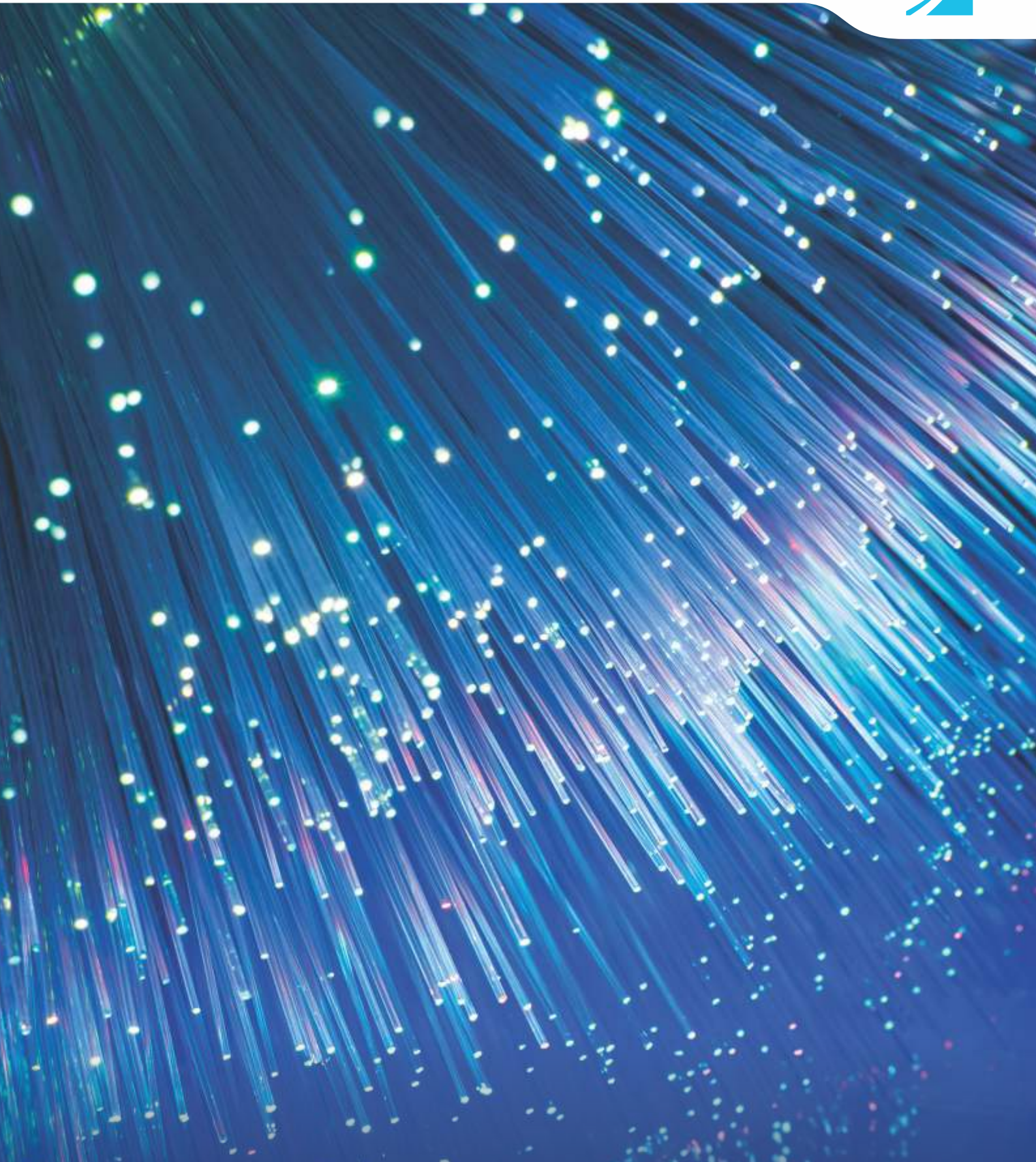
## MISSION

WCO is committed to provide products and services that meet our customers' expectations in quality and seek to continually improve our performance by upgrading tangible indices in our objective deployment matrix.



## VISION

To become the benchmark global manufacturing company for the fibre industry providing world-class products to satisfied worldwide customers through continuous improvement driven by innovations, integrity, teamwork and creativity of our people.



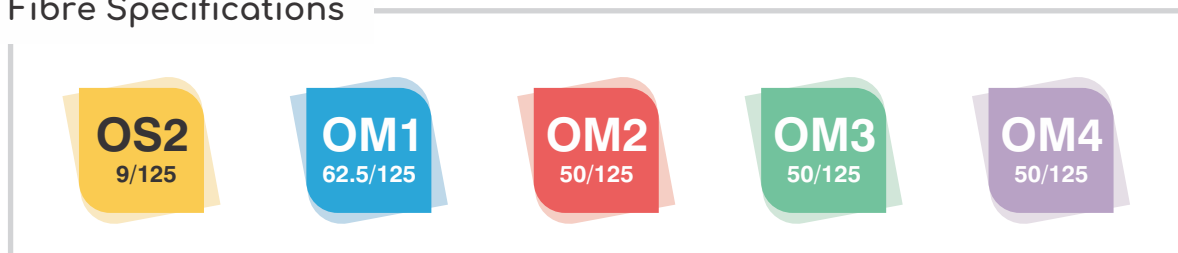
***Fiber Optic Cables***  
**CONNECTING THE FUTURE**



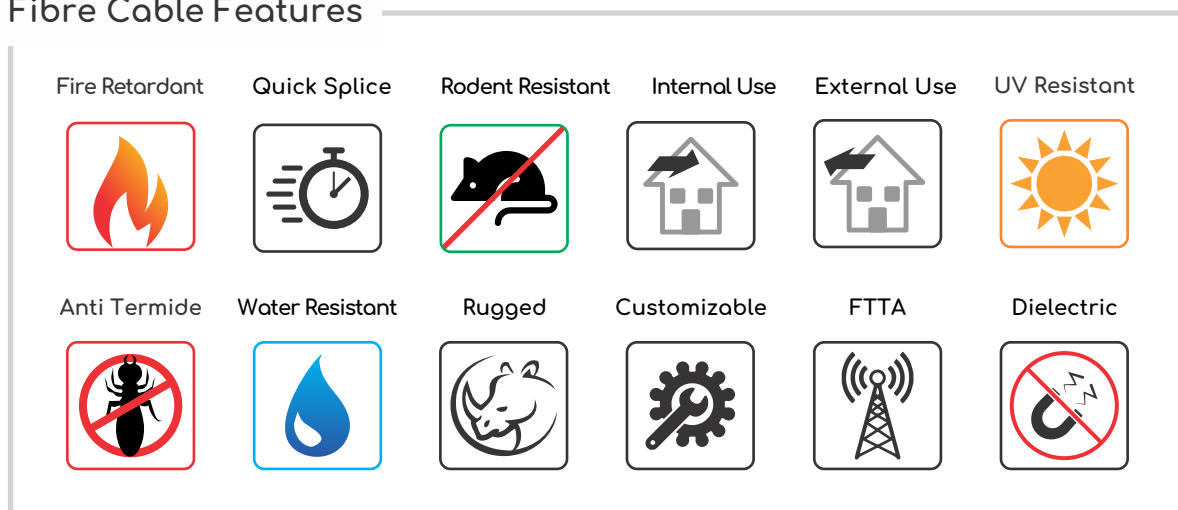
We offer a standard set of fibre optic cables for different applications, and these are available for quick delivery to customers. However, if you require cables not available under our standard set, we will design and deliver them as per your specifications. Following are the standards fibre offerings but also available in other variants based on the customer applications.

The following icons are used throughout this catalogue to represent the fibre optic cable specification, features and value added services that WCO can offer:

## Fibre Specifications



## Fibre Cable Features



## Marking On Cable

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



## Product Performance Standards

Our OFC Labs are NABL accredited and WCO optical fibre cable complies to the following main Standards IEC.60794 series Telcordia GR-20, ITU-T Recommendations.

Parameter	Test Method
Compound Flow	IEC 60794-1-22, Telcordia GR 20
Tensile Strength	IEC 60794-1-21, Telcordia GR 20
Water Penetration	IEC 60794-1-22, Telcordia GR 20
Aeolin Vibration	ICEA 640, ISO 175
Bend Test	IEC 60794-1-21
Cable Ageing	IEC 60794-1-22, Telcordia GR 20
Crush Resistance	IEC 60794-1-21, Telcordia GR 20
Galloping	IEC 60794-1-21
Impact	IEC 60794-1-21, Telcordia GR 20
Repeated Bend	IEC 60794-1-21, GR 20
Temperature Cycle	Telcordia GR 20, IEC 60794-1-22
Torsion	IEC 60794-1-21, Telcordia GR 20
Kink Resistance	Telcordia GR 20, IEC 60794-1-23
CD coefficient	IEC 60793-2-50, IEC 60793-1-42



## Global Certifications & Approvals

ISO 9001:2015	NABL - ISO/IEC 17025:2017
ISO 14001:2015	CPR
ISO 27001:2022	RDSO Approved
ISO 45001:2018	MTCTE Approved
TL 9000 (R6)	TSEC Approved



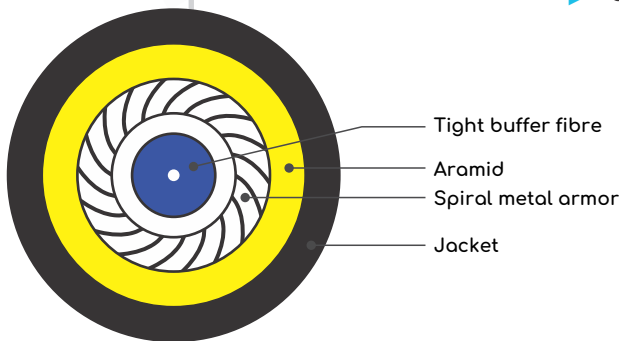


The WCO spiral armoured fibre contains both aramid yarn and spiral steel wire which provide anti-rodent property and flexibility to the cable. Multiple tight buffered fibres are well protected within the outside cable sheath, aramid yarn and spiral steel. The final outer sheath provides the necessary environmental protection.

- OS2**  
9/125
- OM1**  
62.5/125
- OM2**  
50/125
- OM3**  
50/125
- OM4**  
50/125

## APPLICATIONS

- ▶ Suitable for FTTA Application



## FEATURES

- ▶ Tight buffered optical fibre is easy for stripping and operation
- ▶ Tight buffered fibre is available with LSZH, PVC or Nylon.
- ▶ Aramid yarn strength member provides excellent tensile characteristics
- ▶ Spiral steel provides extra tensile and compressive strength
- ▶ Flexible and good bending radius in operation

## TECHNICAL SPECIFICATIONS

DESCRIPTION	UOM	1F	2F	4F
Outer Diameter	mm	4.8	4.8	4.8
Weight	Kg/km	35	35	35
Max.Load (installation)	N	500	500	500
Max.Load (installed)	N	300	300	300
Min bend radius (installation)	mm	15D	15D	15D
Min Bend Radius (installed)	mm	20D	20D	20D
Operating Temp.	°C	-20 + 70	-20 + 70	-20 + 70
Storage Temp.	°C	-10 + 60	-10 + 60	-10 + 60
Installation Temp.	°C	-10 + 60	-10 + 60	-10 + 60
Crush Resistance	N/100mm	2000	2000	2000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

Fibre & Tube Colour	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



UV Resistant



Rodent Resistant



Rugged



Customizable





The CPRI armoured fibre contains both aramid yarn and steel tape which make it robust and rodent proof cable and can be deployed under harsh environment condition. Multiple tight buffered fibres are well protected within the inner sheath and aramid yarn. The HDPE outer sheath make it tough and provide suitable properties for OSP environment.



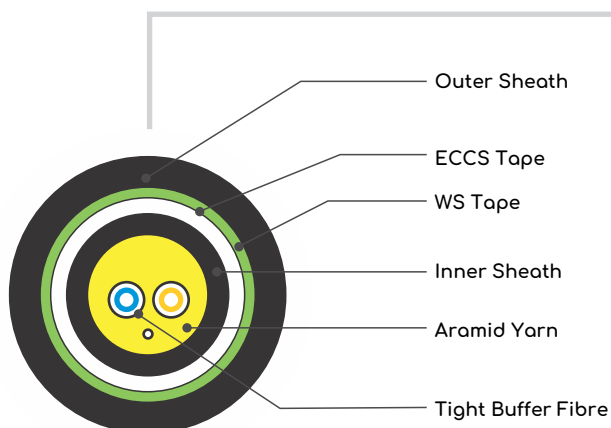
**OS2**  
9/125

**OM1**  
62.5/125

**OM2**  
50/125

**OM3**  
50/125

**OM4**  
50/125



### APPLICATIONS

- ▶ Suitable for FTTA Application and Harsh Environment

### FEATURES

- ▶ Tight buffered optical fibre is easy for stripping and operation
- ▶ Tight buffered fibre is available with LSZH, PVC or Nylon.
- ▶ Aramid yarn strength member provides excellent tensile characteristics

## TECHNICAL SPECIFICATIONS

DESCRIPTION	UOM	1F	2F	4F
Outer Diameter	mm	8.2	8.2	8.2
Weight	Kg/km	65	65	65
Max.Load (installation)	N	800	800	800
Max.Load (installed)	N	500	500	500
Min bend radius (installation)	mm	15D	15D	15D
Min Bend Radius (installed)	mm	20D	20D	20D
Operating Temp.	°C	-20 + 70	-20 + 70	-20 + 70
Storage Temp.	°C	-10 + 60	-10 + 60	-10 + 60
Installation Temp.	°C	-10 + 60	-10 + 60	-10 + 60
Crush Resistance	N/100mm	1000	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

FTTA



UV Resistant



Rodent Resistant



Rugged

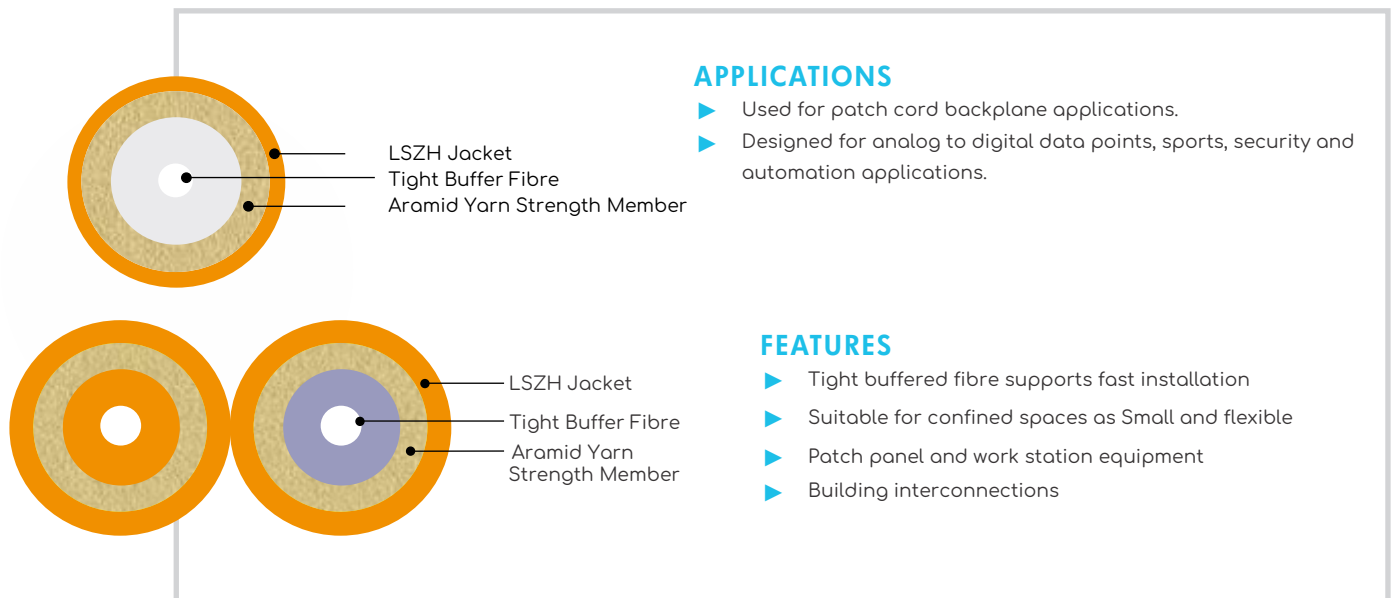


Customizable





WCO Simplex / Duplex Cables are intended for end to end fibre optic solution, designed to support enhanced data transmission requirement. Simplex Fibre Optic cable consists of single tight buffered fibre with aramid yarn as strength member with suitable jacketing material for Indoor application.



### APPLICATIONS

- ▶ Used for patch cord backplane applications.
- ▶ Designed for analog to digital data points, sports, security and automation applications.

### FEATURES

- ▶ Tight buffered fibre supports fast installation
- ▶ Suitable for confined spaces as Small and flexible
- ▶ Patch panel and work station equipment
- ▶ Building interconnections

## TECHNICAL SPECIFICATIONS

DESCRIPTION		2-CORE LSZH	2-CORE LSZH
Outer Diameter	mm	2.0*4.2	3*6.2
Weight	kg/km	8.2	15±3
Max. Load (installation)	N	500	500
Max. Load (installed)	N	150	150
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+70	-20~+70
Storage Temp.	°C	-5~+60	-5~+60
Installation Temp.	°C	-10~+60	-10~+60
Crush Resistance	N/100mm	500	500

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

Fibre & Tube Colour	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

Fire Retardant



Internal Use



FTTx



Data Center



Customizable





WCO Riser Cables are designed for end to end fibre optic connectivity, to support enhanced data demand with future advancement. The designed cables are intended for optical connectivity in multi storey buildings. Tight buffered fibres with Aramid yarns as strength members protected by sheath makes the cable suitable for Indoor application.



**OS2**  
9/125

**OM1**  
62.5/125

**OM2**  
50/125

**OM3**  
50/125

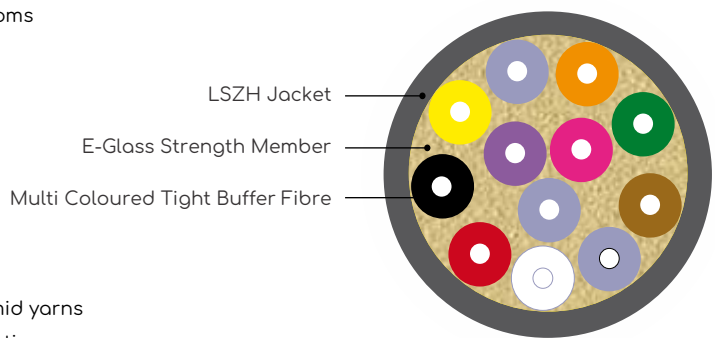
**OM4**  
50/125

## APPLICATIONS

- ▶ Designed for intra-building backbones and horizontal connectivity
- ▶ Ideal for routing inside building / telecommunication rooms

## FEATURES

- ▶ Available upto 24 fibre count in either Single Mode and Multimode Optical Fibres
- ▶ Tight buffered fibre for fast deployment
- ▶ Reduced cost of installation
- ▶ Flexible and Fire retardant outer sheath with Aramid yarns
- ▶ LSZH Jacket makes cable safer against fire protection
- ▶ Options available with Combination of fibre, with Nylon/LSZH tight buffering



Fire Retardant



Internal Use



FTTx



Data Center



Customizable



## TECHNICAL SPECIFICATIONS

DESCRIPTION		4-CORE LSZH	8-CORE LSZH	12-CORE LSZH	24-CORE LSZH
Outer Diameter	mm	4.8 ±0.3	5.8 ±0.3	6.5 ±0.3	7.5 ±0.3
Weight	kg/km	26	34	40	61
Max. Load (installation)	N	600	750	750	900
Max. Load (installed)	N	300	375	375	450
Min. Bend Radius (installation)	mm	96	116	130	150
Min. Bend Radius (installed)	mm	48	58	65	75
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



WCO breakout cables are designed for end-to-end fibre optic solution to serve enhanced data needs along with future advancement. Breakout cables are intended for Indoor / Outdoor application with provision of mid-fibre access. Cable contains optical fibre subunit surrounded by LSZH tight buffer and aramid yarn.



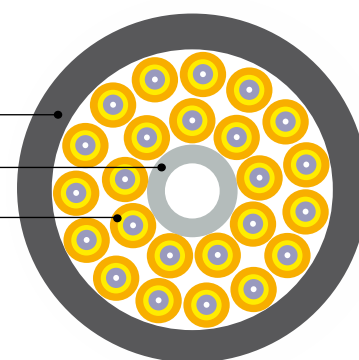
## APPLICATIONS

- ▶ Designed for intra-building backbones and horizontal connectivity
- ▶ Ideal for routing inside building / telecommunication rooms
- ▶ Midspan access distribution cable within the premises/floor

## FEATURES

- ▶ Available in 12 and 24 fibre count
- ▶ A single tight buffered can be used without disturbing other tight buffers
- ▶ Reduced cost of installation and time
- ▶ Easy removal of jacket
- ▶ Light weight & compact
- ▶ High strength individual unit

LSZH Outer Jacket  
FRP CSM & Padding  
Simplex Cable



## TECHNICAL SPECIFICATIONS

DESCRIPTION		4 CORE LSZH	6 CORE LSZH	8 CORE LSZH	12 CORE LSZH	24 CORE LSZH
Outer Diameter	mm	7.0	8.2	9.4	11.8	14.1
Weight	kg/km	46	63	86	139	159
Max. Load (installation)	N	500	1000	1100	1400	2300
Max. Load (installed)	N	270	600	700	800	1100
Min. Bend Radius (installation)	mm	140	160	190	240	280
Min. Bend Radius (installed)	mm	70	80	95	120	140
Fire Performance					LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

Fire Retardant



Internal Use



FTTx



Data Center



Customizable





2 to 24 fibre OM1, OM2, OM3, OM4 multimode or OS1/OS2 (ITU-T G.652D singlemode 250µm single loose tube external duct cables with e-glass strength members and polyethylene (PE) or Low Smoke Zero Halogen (LSZH) jacket.

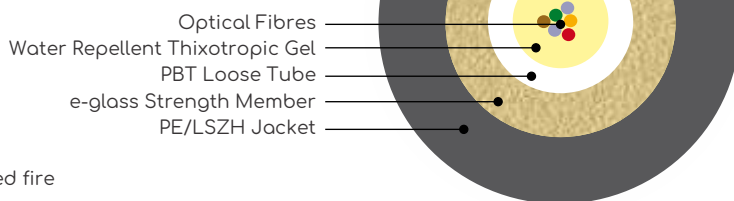


## APPLICATIONS

- ▶ Suitable for internal / external duct applications
- ▶ Suitable for environments where rodent resistance is required
- ▶ Ideal for intra building links in campus environments

## FEATURES

- ▶ Choice of fibre types
- ▶ Colour coded fibres
- ▶ E-glass strength members for rodent resistance
- ▶ Flame retardant LSZH jacket option for enhanced fire performance
- ▶ Compact 250µm loose tube construction



Duct



Water Resistant



Rodent Resistant



External Use



Customizable



## TECHNICAL SPECIFICATIONS

DESCRIPTION		2-12 CORE	24 CORE LSZH
Outer Diameter	mm	6.0 ±0.3	6.7 ±0.3
Weight	kg/km	40	47
Max. Load (installation)	N	1000	1000
Max. Load (installed)	N	500	500
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



The single loose tube cables consist of 2 to 48, 250µm optical fibres in a single gel filled loose tube with e-glass non metallic strength members jacketed with black PE or LSZH and ripcord.

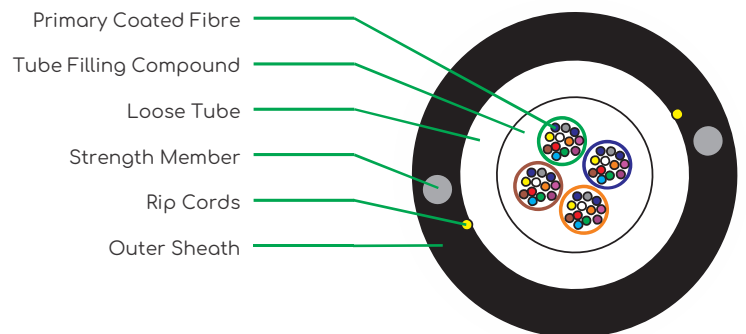


### APPLICATIONS

- ▶ Suitable for duct installation
- ▶ For CATV application, aerial application along with messenger wire

### FEATURES

- ▶ Lighter weight cable for faster and easier installation



## TECHNICAL SPECIFICATIONS

DESCRIPTION		UPTO 12-CORE	24-CORE	48-CORE
Outer Diameter	mm	6.0	8.0	9.5
Weight	kg/km	40	60	80
Max. Load (installation)	N	1000	1000	1000
Max. Load (installed)	N	500	500	500
Min. Bend Radius (installation)	mm	15D	15D	15D
Min. Bend Radius (installed)	mm	20D	20D	20D
Operating Temp.	°C	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-10~+50	-10~+50	-10~+50
Installation Temp.	°C	-10~+50	-10~+50	-10~+50
Crush Resistance	N/100mm	1000	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

- Duct
- Water Resistant
- Rodent Resistant
- External Use
- Customizable



The multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with water swellable threads and water swellable tape. Helically applied water blocking e-glass non metallic strength members with ripcord and black high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.



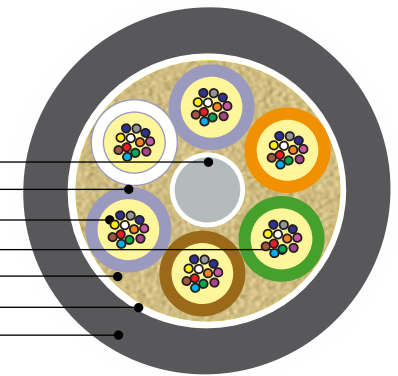
## APPLICATIONS

- ▶ Suitable for external duct applications
- ▶ Suitable for applications where environmental resistance is required

## FEATURES

- ▶ Choice of fibre type
- ▶ Colour coded fibres
- ▶ Compact 250µm loose tube construction
- ▶ PE jacket for environmental protection and water permeation resistance
- ▶ Flame retardant LSZH jacket option for enhanced fire performance

- FRP Central Strength Member
- Fibre Optic Loose Tube Cable
- Water Repellent Thixotropic Gel
- Optical Fibre
- e-glass Strength Member
- Water Blocking Tape
- PE or LSZH Jacket



## TECHNICAL SPECIFICATIONS

DESCRIPTION		24 TO 60-CORE	72-CORE	96-CORE	144-CORE	288-CORE
Outer Diameter	mm	10.5 ±0.4	11.1 ±0.4	12.6 ±0.4	15.6 ±0.4	17 ±1
Weight	kg/km	90	97	121	178	216
Max. Load (installation)	N	2000	2000	2500	3500	3500
Max. Load (installed)	N	1500	1050	2000	3000	3000
Min. Bend Radius (installation)	mm	210	220	250	310	340
Min. Bend Radius (installed)	mm	105	110	125	155	170
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	2000	2000	2000	2000	2000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

Duct



Water Resistant



Rodent Resistant



External Use



Customizable





WCO single loose tube corrugated steel tape armoured cables are constructed of 250µm fibres held in a gel filled central loose tube surrounded by water-blocking tape and corrugated, polyethylene laminated steel tape.

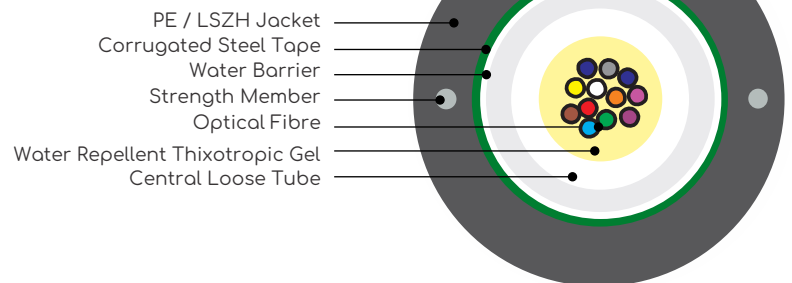


## APPLICATIONS

- ▶ Suitable for external & duct applications
- ▶ Suitable for direct buried applications

## FEATURES

- ▶ Choice of fibre types
- ▶ Colour coded fibres
- ▶ High crush resistance
- ▶ PE / LSZH jacket
- ▶ High tensile strength
- ▶ Flame retardant LSZH option for enhanced fire performance



## TECHNICAL SPECIFICATIONS

DESCRIPTION		2-12 CORE	24 CORE
Outer Diameter	mm	8.5 ± 0.5	9 ± 0.5
Weight	kg/km	85	100
Max. Load (installation)	N	2000	2000
Max. Load (installed)	N	1500	1500
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

Armoured



Water Resistant



Rodent Resistant



Rugged



External Use



Customizable





The multi loose tube cable construction consists of up to up to 12 elements and a maximum of 144, 250 µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a jacketed Fibre Reinforced Plastic (FRP) central strength member with waterswellable threads and waterswellable tape.



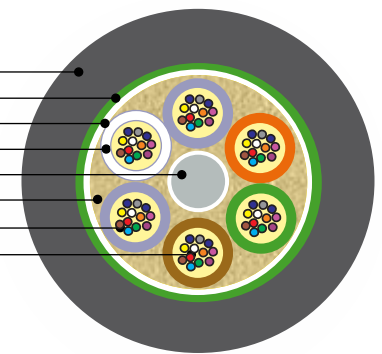
## APPLICATIONS

- ▶ Suitable for external & duct applications
- ▶ Suitable for direct buried applications

## FEATURES

- ▶ Choice of fibre type
- ▶ Colour coded fibres
- ▶ High water resistant
- ▶ High crush resistant
- ▶ PE / LSZH jacket
- ▶ LSZH option for enhanced fire performance

- PE / LSZH Outer Jacket
- Corrugated Steel Tape
- Binder
- Loose Tube
- FRP Strength Member
- Water Locking Yarn & Tape
- Water Repellent Thixotropic Gel
- Optical Fibre



Armoured



Water Resistant



Rodent Resistant



Rugged



External Use



Customizable



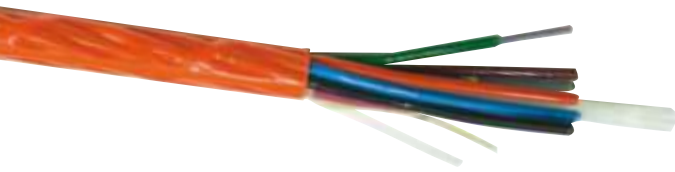
## TECHNICAL SPECIFICATIONS

DESCRIPTION		24 TO 48 CORE	72-CORE	96-CORE	144-CORE	288-CORE
Outer Diameter	mm	11.5 ±0.5	11.5 ±0.5	12 ±0.5	18.5 ±0.1	18.5 ±1
Weight	kg/km	125	125	150	225	295
Max. Load (installation)	N	3000	3000	3500	4500	4500
Max. Load (installed)	N	2500	2500	3000	4000	4000
Min. Bend Radius (installation)	mm	230	230	240	310	370
Min. Bend Radius (installed)	mm	115	115	120	155	185
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	3000	3000	3000	3000	3000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



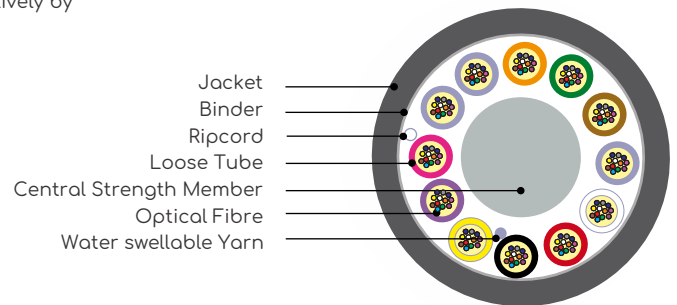
WCO microcables contain robust micro buffer tubes which are stranded around a central strength member. Each buffer tubes are well protected to prevent the ingress of water inside it. The stranded unit are further jacketed with suitable polymer like HDPE, LSZH or PA to get the enhanced blowing performance and making cable robust and ready for OSP/ISP deployment. The micro cables are designed and suitably protected for water propagation along the cable.

## APPLICATIONS

- ▶ Access / Metro Drop cabling for FTTx networks using air blown techniques.
- ▶ Space utilization in existing and new duct systems more effectively by accommodating more fibres in given subduct network.

## FEATURES

- ▶ Best in class blowing performance.
- ▶ Being smaller diameter cable results in reduction in installation costs.
- ▶ Easily removable outer jacket
- ▶ Easy and quick mid-span access
- ▶ Easy to handle & install
- ▶ Flexible & light weight
- ▶ UV protected



## TECHNICAL SPECIFICATIONS

Fiber Count (250 micron)	Upto72F	96F	144F	192F	216F	288F	432F	576F	864F
Fiber/Tube	12	12	12	12	12	12	24	24	24
Cable Diameter	5.4	6.1	7.9	7.9	7.9	9.3	11.0	13.0	15.2
Cable Weight (Kg/km) Approx.	26	36	52	52	52	80	100	140	175
Max. Tensile Strength (N)	600	1000	1000	600	600	1200	1200	1200	1200
Crush (N/100mm)	Short term: 500		Long Term: 200						

Fiber Count (200 micron)	144F	144F	192F	192F	288F	432F	576F	864F
Fiber/Tube	12	24	12	24	12	24	24	24
Cable Diameter	6.8	6.2	7.8	7.2	8.0	9.6	11.2	13.0
Cable Weight (Kg/km) Approx.	38	35	48	48	58	90	110	155
Max. Tensile Strength (N)	800	800	800	1000	1000	1000	1000	1000
Crush (N/100mm)	Short term: 500		Long Term: 200					

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

- Duct
- Water Resistant
- External Use
- Rapid Deployment
- Customizable



The WCO Ribbon units contains flat array of 4- 12 colours-coded fibres. The Ribbon units placed inside buffer tubes are stranded around a central strength member. The cable core is surrounded with thermoplastic sheath making the cable robust and installation friendly. WCO Ribbon cable is available in both Armoured and Unarmoured Version. Product is available in Uni-tube and Multitube construction.



**OS2**  
9/125

**OM1**  
62.5/125

**OM2**  
50/125

**OM3**  
50/125

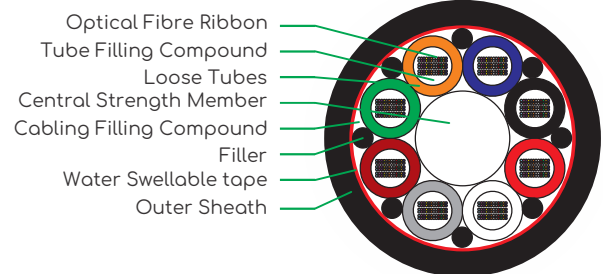
**OM4**  
50/125

## APPLICATIONS

- ▶ Suitable for Duct Installation, pulled & blown
- ▶ Datacentre Connectivity
- ▶ Metro & NLD Connectivity

## FEATURES

- ▶ Quick Splice using mass fusion technique resulting lower MTTR
- ▶ Flexible buffer tubes provide easy fibre routing inside closure
- ▶ Robust Design with HDPE Sheath
- ▶ UV protected



## TECHNICAL SPECIFICATIONS

### Armored Ribbon Cable

Description	Unit	48F	96F	144F	216F	288F	288F	432F	864F
No of Fiber per Ribbon	No	6	6	6	6	6	12	12	12
Outer Diameter	mm	15.5	17.0	18.0	19.5	22.5	21.5	23.6	28
Weight	Kg/Km	205	250	280	320	410	380	480	600
Max Load	N	3000							
Min. BendRadius	mm	20D							
Operating Temperature	-	-20 to +70							
Crush Resistance	N/100mm	2200							

### Un-Armored Ribbon Cable

Description	Unit	48F	96F	144F	216F	288F	288F	432F	864F
No of Fiber per Ribbon	No	6	6	6	6	6	12	12	12
Outer Diameter	mm	12.5	14.2	15.5	17.5	20.5	15.2	18.2	24
Weight	Kg/Km	130	160	180	250	290	250	320	480
Max Load	N	3000							
Min. BendRadius	mm	20D							
Operating Temperature	°C	-20 to +70							
Crush Resistance	N/100mm	2200							

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

- Duct
- Water Resistant
- Rodent Resistant
- External Use
- Rapid Deployment
- Customizable



This cable is a stranded loose tube cable with optical fibres placed inside robust buffer tubes stranded around a fibre reinforced plastic (FRP) central strength member.

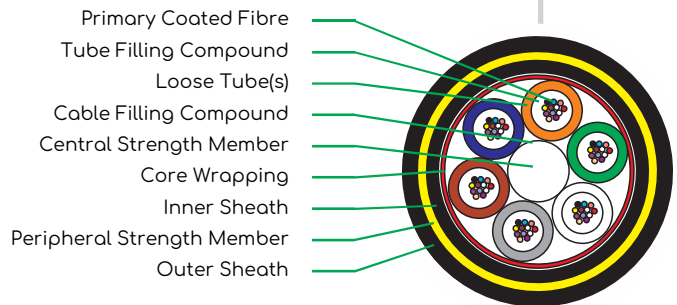
In addition to optical fibres, the buffer tubes may contain water blocking gel or yarn, and the cable core is surrounded with water swellable tape to prevent water ingress in the interstices of cable core. High Strength Aramid Yarns are evenly distributed to provide the required tensile strength for aerial self-supporting applications.

## APPLICATIONS

- ▶ Suitable for self supporting aerial installation with rigorous load conditions, including heavy wind and ice
- ▶ Suitable for span length of 100 mtrs (also available for other span length)

## FEATURES

- ▶ Single layer S-Z stranded construction
- ▶ Offers exceptional strength and corrosion resistance for aerial application
- ▶ Flexible buffer tubes provides easy fibre routing inside closure



## TECHNICAL SPECIFICATIONS

DESCRIPTION		Upto 48-CORE	Upto 72-CORE	96-CORE	144-CORE
Outer Diameter	mm	12.5	13.5	15.0	18.0
Weight	kg/km	125	145	180	250
Max. Load (installation)	N	5000	5000	5000	5000
Max. Load (installed)	N	2000	2000	2000	2000
Min. Bend Radius (installation)	mm	15D	15D	15D	15D
Min. Bend Radius (installed)	mm	20D	20D	20D	20D
Operating Temp.	°C	-10~+50	-10~+50	-10~+50	-10~+50
Storage Temp.	°C	-10~+50	-10~+50	-10~+50	-10~+50
Installation Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70
Crush Resistance	N/100mm	3000	3000	3000	3000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



Water Resistant



Dielectric



External Use



Customizable





Single Jacket Figure-8 Cables have integrated high strength stranded galvanised steel messenger wire as a support strand which provides high tensile strength to the cable making it suitable for aerial self-supported installations. This cable is a single loose tube design.

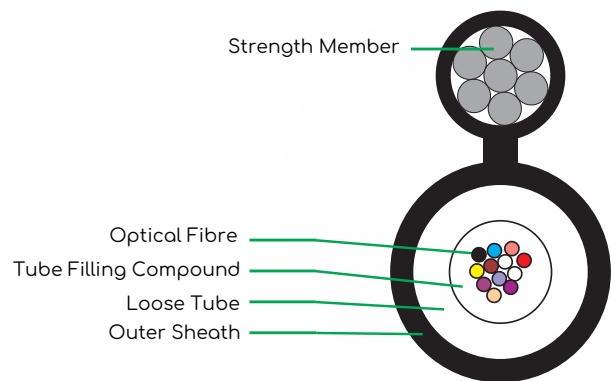


## APPLICATIONS

- ▶ Aerial installation with rigorous load conditions, including heavy wind and ice
- ▶ Suitable for span length of 100 mtrs

## FEATURES

- ▶ Central Loose tube construction
- ▶ Offers exceptional strength and corrosion resistance for aerial application
- ▶ Integrated High tensile messenger for superior strength and corrosion resistance



Water Resistant



Dielectric



External Use



Customizable



## TECHNICAL SPECIFICATIONS

DESCRIPTION		Upto 12-CORE	16/24-CORE	48-CORE
Outer Diameter	mm	6.5x6.0	7.5x6.0	10.0x6.0
Weight	kg/km	100	110	150
Max. Load (installation)	N	2000	2000	2000
Max. Load (installed)	N	1000	1000	1000
Min. Bend Radius (installation)	mm	15D	15D	15D
Min. Bend Radius (installed)	mm	20D	20D	20D
Operating Temp.	°C	-10~+50	-10~+50	-10~+50
Storage Temp.	°C	-10~+50	-10~+50	-10~+50
Installation Temp.	°C	-40~+70	-40~+70	-40~+70
Crush Resistance	N/100mm	1000	1000	1000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



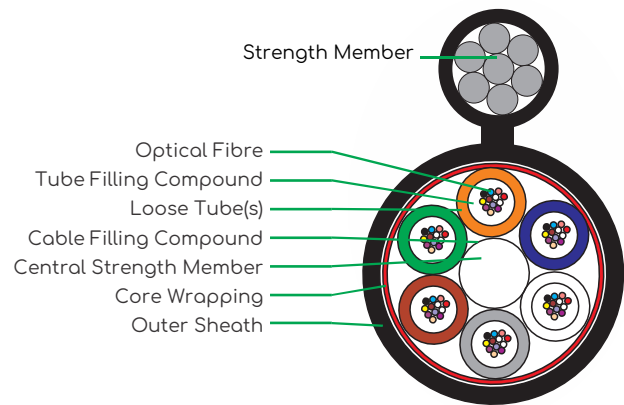
Single Jacket Figure-8 Cables have integrated high strength stranded galvanised steel messenger wire as a support strand which provides high tensile strength to the cable making it suitable for aerial self-supported installations. This cable is a stranded loose tube cable with optical fibre placed inside robust buffer tubes stranded around a fibre reinforced plastic (FRP) central strength member.

## APPLICATIONS

- ▶ Aerial installation with rigorous load conditions, including heavy wind and ice
- ▶ Suitable for span length of 100 mtrs

## FEATURES

- ▶ Single layer S-Z stranded construction
- ▶ Offers exceptional strength and corrosion resistance for aerial application
- ▶ Integrated High tensile messenger for superior strength and corrosion resistance
- ▶ Flexible buffer tubes provides easy fibre routing inside closure



## TECHNICAL SPECIFICATIONS

DESCRIPTION		Upto 72-CORE	96-CORE	144-CORE
Outer Diameter	mm	10.6/6.5	12.3/6.5	14.7/6.5
Weight	kg/km	170	200	250
Max. Load (installation)	N	6000	8000	9000
Max. Load (installed)	N	2500	4000	5000
Min. Bend Radius (installation)	mm	15D	15D	15D
Min. Bend Radius (installed)	mm	20D	20D	20D
Operating Temp.	°C	-10~+50	-10~+50	-10~+50
Storage Temp.	°C	-10~+50	-10~+50	-10~+50
Installation Temp.	°C	-40~+70	-40~+70	-40~+70
Crush Resistance	N/100mm	2000	2000	2000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



Water Resistant



Dielectric



External Use



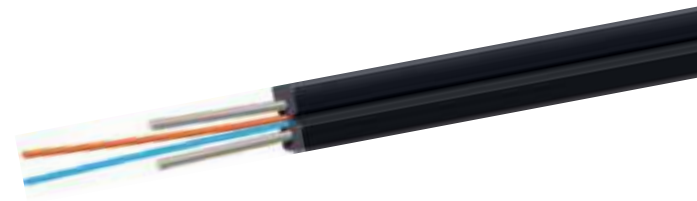
Customizable





WCO Indoor FTTH Cable is an enhanced performance FTTH solution, constructed with one/two single mode /bend sensitive fibres, protected by two strength members and covered with outer sheath which makes the cable robust and installation friendly.

This cable is very light and easy to install and strip. Industry standard connectors can be used for direct termination. Low Smoke Zero Halogen Compound Jacket is appropriate for indoor use.

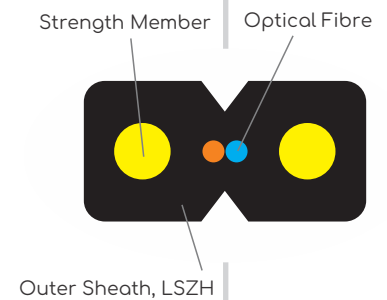


## APPLICATIONS

- ▶ Low bending Cable suitable for Indoor Application

## FEATURES

- ▶ Easy access to the fibres
- ▶ Fast Installation
- ▶ Quick Cable Entry & Easy-Peel
- ▶ Flame Retardant Sheath
- ▶ Good Durability
- ▶ Clean, Gel-Free, Dry Design



Fire Retardant



Water Resistant



Internal Use



FTTx



Customizable



## TECHNICAL SPECIFICATIONS

DESCRIPTION	2-CORE	
Outer Diameter	mm	2.0 x 3.0
Weight	kg/km	8
Max. Load (installation)	N	40
Max. Load (installed)	N	20
Min. Bend Radius (installation)	mm	30
Min. Bend Radius (installed)	mm	50
Operating Temp.	°C	-20~+70
Storage Temp.	°C	-20~+70
Installation Temp.	°C	-40~+70
Crush Resistance	N/100mm	3000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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



WCO Outdoor FTTH Cable is an enhanced performance FTTH solution, constructed with one/two single mode fibre protected by two strength members and a messenger wire on the top for aerial drop applications and a final LSZH jacket. This Cable is very light and easy to install and strip. Industry standard connectors can be used for direct Termination.

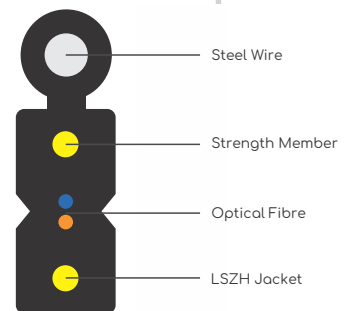


## APPLICATIONS

- ▶ Drop Cable suitable for aerial application

## FEATURES

- ▶ Easy access to the fibres
- ▶ Quick Cable Entry & Easy-Peel
- ▶ Good Durability
- ▶ High Temperature Stability
- ▶ Clean, Gel-Free, Dry Design



## TECHNICAL SPECIFICATIONS

DESCRIPTION		2-CORE
Outer Diameter	mm	2.0 x 5.0
Weight	kg/km	20
Max. Load (installation)	N	130
Max. Load (installed)	N	50
Min. Bend Radius (installation)	mm	30
Min. Bend Radius (installed)	mm	50
Operating Temp.	°C	-20-+70
Storage Temp.	°C	-20-+70
Installation Temp.	°C	-40-+70
Crush Resistance	N/100mm	3000

## OPTICAL FIBRE AND TUBE IDENTIFICATION

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

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

Fire Retardant



Water Resistant



Internal Use

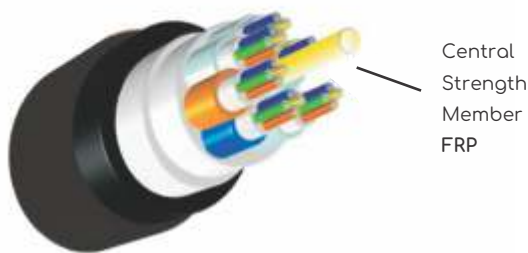


FTTx



Customizable





Central Strength Member FRP

## TELECOMMUNICATION SOLUTIONS

WCO FRP is manufactured by using latest and precise technology. It has high strength and flexibility providing best anti-buckling properties. 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.

## FEATURES

- Superior dimensional stability
- High tensile modulus
- Designed for all-dielectric or metallic cable applications
- Provides anti-buckling properties and protection during installation
- Long, splice-free lengths
- Matches desired length specifications, which increases equipment uptime and productivity
- 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



## TYPICAL PRODUCT CHARACTERISTICS

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 <sup>-6</sup>	ASTM D 696
Shrinkage	0%	
ASTM D 696 Flexural modulus	> 50 Gpa	ASTM D 790
Water absorption after 24 hrs	< 0.1 %	ASTM D 570



## PRODUCT: IGFR - GREEN & WHITE

Glass yarns are manufactured using E-glass fibre with proprietary PU resin systems to produce an innovative, value added reinforcement solution with high degree of softness and strength. It has a special smooth, flexible coating which improves handling and eliminates dust and loose fibre generation during cable production even at very high speeds, leading to high productivity and ultimate cable strength. The soft fibre spread evenly on cable the core minimizes, thickness build-up. It comes in variety of coatings, offering good adhesion top materials like PE, PVC etc. it is available in long continuous lengths for enhanced productivity. It has a very high strength to weight ratio resulting in light weight cable with utmost ease of handling.

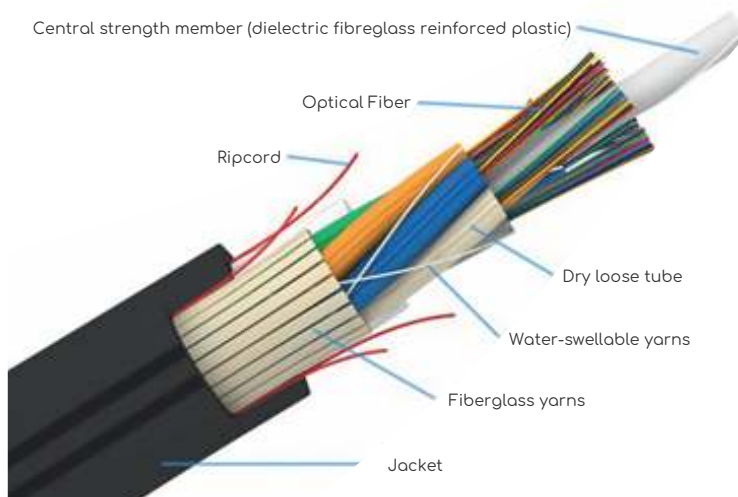
## APPLICATION

The impregnated Glass Fiber Roving shall be used as flexible strength member (tension and compressive resistive member) for optical fibre cables in conjunction with the Solid Rigid FRP Rods in fibre optics cable design requiring peripheral reinforcement.



## Water Blocking Glass Fibre Reinforcement

Property	Unit	Method	300	600	800	1200	1800
Linear Density (+10%)	Tex	Astm D - 578	320	630	810	1250	1880
Tensile Strength at Break	Kg	Astm D - 885	160	≥ 340	≥ 450	≥ 760	≥ 960
Load @ 0.5% Elongation	Kg	Astm D - 885	≥ 35	≥ 70	≥ 100	≥ 150	≥ 200
Modulus of Elasticity	N/mm <sup>2</sup>	Astm D - 885	≥ 65000	≥ 65000	≥ 65000	≥ 65000	≥ 65000
Elongation at Break	%	Astm D - 885	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
Loss on Ignition	%	Astm D - 4963 - 94	6 ± 2	6 ± 2	6 ± 2	6 ± 2	6 ± 2
Water Absorption	%	Astm D - 570	> 400	> 400	> 400	>400	> 400

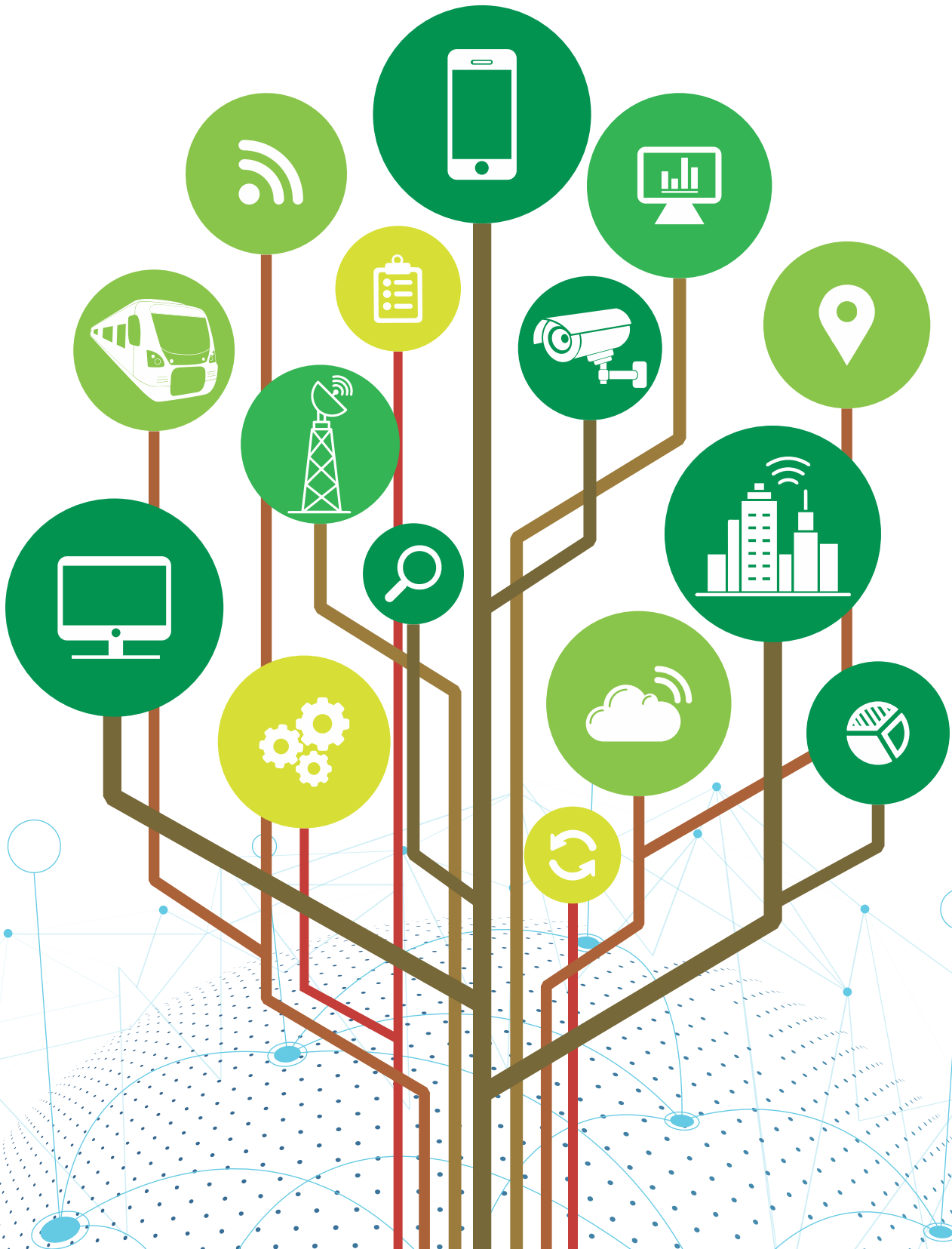




WEST COAST  
OPTILINKS

(A Division of West Coast Paper Mills Ltd)

*Connecting the future*



***Enabling progress through connectivity***



**WEST COAST  
OPTILINKS**

(A Division of West Coast Paper Mills Ltd)

*Connecting the future-*

### Headquarter

31, Chowringhee Road, Kolkata – 700016 (IN)

Phone: +91-33-22166271 to 78

---

### Manufacturing Facility

#### Mysore

Plot No. 386 & 387, KIADB Electronics City,  
Hebbal Industrial Area,  
Mysore – 570016 (Karnataka), (IN)

Phone: +91-821-2404060

#### Hyderabad

Plot No. S-9/B/C, E city  
Raviryala (V), Maheswaram (M)  
Ranga Reddy, Hyderabad -501359,  
Telangana (IN)

---

### Corporate office

#### Delhi

6C, 6th Floor, Hansalaya Building  
15- Barakhamba Road, New Delhi-110001 (IN)

Cell: +91 11 40110101 | Email: [info@westcoastoptilinks.com](mailto:info@westcoastoptilinks.com)

#### Mumbai

Free Press House, Free Press Journal Marg  
Office no-23&24, 2nd floor, 215, Nariman Point, Mumbai-400021 (IN)  
Cell: 99870 22133 | Email: [info@westcoastoptilinks.com](mailto:info@westcoastoptilinks.com)

### Marketing Offices

DELHI | MUMBAI | BANGALORE | HYDERABAD | KOLKATA

