

— LARGEST OFC STOCK IN COMPLETE INDIA

Optical Fibre *Cables*

Product Catalogue · 2026



3SSS

Paramount

Premium OFC Brands

Railways · Defence · DRDO · NHAI · ISRO · Telecom · Smart Cities · Data Centers

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THREE DECADES OF CONNECTING INDIA

About Sahiba Enterprises

Established in 1994, Sahiba Enterprises holds the largest OFC stock in complete India — based in New Delhi with over 30 years of experience in the telecommunications industry. We are authorized dealers and distributors for India's top OFC manufacturers including 3SSS, Paramount and other premium brands.

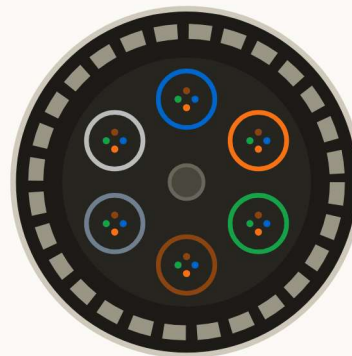
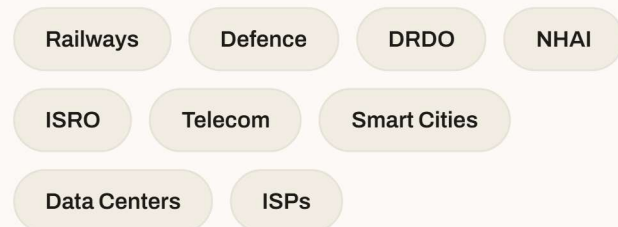
We maintain the country's largest OFC inventory — stocking cables in fibre counts from 2F to 288F — supplying Indian Railways, Defence, DRDO, Aeronautics, NHAI, ISRO and private telecom operators across 28+ states, so your project never waits on supply.

30+ Years experience	500+ Projects delivered	28+ States served	24_{hr} Average dispatch
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WHY CHOOSE US

- **Largest ready stock** of optical fibre cable in the country
- **30+ years** of trusted expertise since 1994
- **Premium brands** — authorized dealer for 3SSS & Paramount
- **Same-day dispatch** for in-stock items from Delhi
- **Government approved** — Railways, Defence, DRDO, NHAI, ISRO
- **Quality assured** with manufacturer test certificates

SECTORS WE SERVE



CENTRAL LOOSE TUBE · FRP STRENGTH MEMBER

Single Tube Unarmoured Cable (2-12F)

Up to 12 single-mode fibres · ITU-T G.652D · duct, CATV & LAN backbone

APPLICATIONS

- Inside duct, pulled or blown installation
- CATV application networks
- Aerial installation with messenger wire
- Indoor & outdoor LAN backbone

CONSTRUCTION

- Central loose tube, gel filled
- 2× FRP peripheral strength members
- Water-blocking aramid yarn
- UV-stabilised HDPE outer sheath



Cross-section

SPECIFICATIONS

2-12F
Fibre count

8.5 mm
Outer diameter

1500 N
Tensile strength

G.652D
Fibre type

STRANDED LOOSE TUBE · HIGH FIBRE COUNT

Multi-Tube Unarmoured Cable (2-144F)

Stranded design up to 144 fibres · ITU-T G.652D · backbone & metro duct routes

APPLICATIONS

- Long-haul & metro backbone networks
- Duct & blown installation
- Inter-city telecom routes
- FTTx feeder distribution

CONSTRUCTION

- Stranded loose tubes around central FRP
- Up to 12 fibres per tube
- Water-blocking tape & jelly
- UV-stabilised HDPE outer sheath



6-tube stranded core

SPECIFICATIONS

2-144F
Fibre count

12.5 mm
Outer diameter

2700 N
Tensile strength

G.652D
Fibre type

CORRUGATED STEEL TAPE ARMOUR · DIRECT BURIAL

Single Sheath Armoured Cable (2-144F)

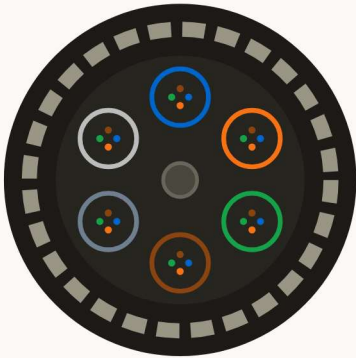
Steel-tape armoured · rodent & crush protection · direct-buried routes

APPLICATIONS

- Direct burial without conduit
- Railway trackside & highway routes
- Rodent-prone & rocky terrain
- Inter-building campus links

CONSTRUCTION

- Corrugated steel tape armour
- Stranded loose-tube core
- Water-blocking jelly & tape
- Single HDPE outer sheath



Steel-tape armour

SPECIFICATIONS

2-144F
Fibre count

14 mm
Outer diameter

4000 N
Tensile strength

STA
Armour type

DOUBLE JACKET & ARMOUR · HEAVY DUTY

Double Sheath Armoured Cable (2-144F)

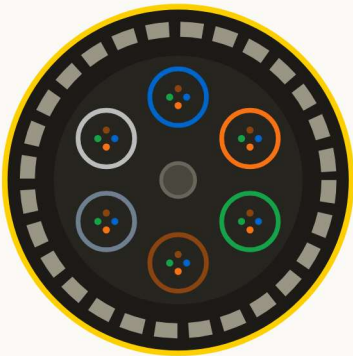
Twin HDPE jackets over steel armour · maximum mechanical protection

APPLICATIONS

- River & canal crossings
- High-pressure & high-load zones
- Defence & strategic installations
- Mining & industrial corridors

CONSTRUCTION

- Double HDPE sheath construction
- Corrugated steel tape armour
- Stranded loose-tube gel-filled core
- Inner & outer water-blocking layers



Double sheath + armour

SPECIFICATIONS

2-144F
Fibre count

16.5 mm
Outer diameter

6000 N
Tensile strength

Double
Sheath type

ALL DIELECTRIC · SELF SUPPORTING

ADSS Cable (2-144F)

Fully dielectric · long-span aerial · power-line & tower mounting

APPLICATIONS

- Overhead power transmission lines
- Long aerial spans up to 200 m
- Electric utility & grid networks
- Railway electrified corridors

CONSTRUCTION

- Fully non-metallic dielectric design
- High-modulus aramid yarn strength
- Self-supporting, no messenger
- Track-resistant PE sheath



Dielectric · aramid yarn

SPECIFICATIONS

2-144F
Fibre count

200 m
Max span

100%
Dielectric

G.652D
Fibre type

INTEGRATED STEEL MESSENGER

Figure-8 Aerial Cable (2-96F)

Self-supporting figure-8 profile · integrated messenger wire · pole-to-pole

APPLICATIONS

- Pole-to-pole aerial distribution
- Last-mile FTTH access spans
- Urban & suburban overhead routes
- CATV & broadband drops

CONSTRUCTION

- Integrated galvanised-steel messenger
- Figure-8 unitised profile
- Loose-tube gel-filled core
- UV-stabilised PE sheath

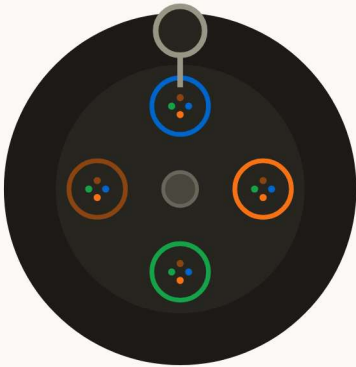


Figure-8 + messenger

SPECIFICATIONS

2-96F
Fibre count

100 m
Max span

7/0.7
Messenger

G.652D
Fibre type

LAST-MILE SUBSCRIBER DROP · BEND-INSENSITIVE

FTTH & Drop Cable (1–6F)

Flat & round drop · G.657A2 bend-insensitive · home connection

APPLICATIONS

- Fibre-to-the-home subscriber drops
- In-building & riser cabling
- Apartment & MDU distribution
- Aerial & duct mini drop

CONSTRUCTION

- Flat or round profile options
- 2× FRP / steel strength members
- G.657A2 bend-insensitive fibre
- Easy-strip LSZH / PE sheath



Drop core · twin FRP

SPECIFICATIONS

1–6F
Fibre count

2×3 mm
Flat profile

7.5 mm
Min bend radius

G.657A2
Fibre type

FIELD-DEPLOYABLE · DEFENCE GRADE

Tactical Cable (2–12F)

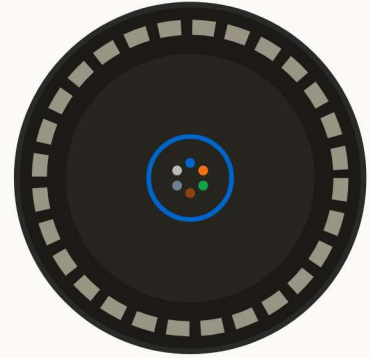
Rugged repeated-deployment cable · defence & field communications

APPLICATIONS

- Defence & military field deployment
- Repeated lay-and-recover use
- Broadcast & outside-event links
- Emergency & disaster networks

CONSTRUCTION

- Heavy aramid-yarn reinforcement
- Abrasion-resistant PU jacket
- Crush, flex & tension rated
- Wide-temperature operation



Aramid · PU jacket

SPECIFICATIONS

2–12F

Fibre count

6.5 mm

Outer diameter

–40°C

Min temperature

PU

Jacket

FIBRE + COPPER · POWER & DATA

Hybrid Cable (*Fibre + Copper*)

Combined optical fibre & copper conductors · one cable, power and data

APPLICATIONS

- Remote radio head & 4G/5G towers
- CCTV & powered IP camera runs
- Powered access points & nodes
- Smart-city pole infrastructure

CONSTRUCTION

- Optical fibres + copper power pairs
- Stranded copper conductors
- Loose-tube optical sub-unit
- Unified UV-stable outer sheath



Fibre core + copper

SPECIFICATIONS

2-48F

Fibre count

2-4x

Copper cores

1.5 mm²

Conductor

G.652D

Fibre type

OM1-OM4 · DATA CENTER & CAMPUS

Multimode Armoured Cable (OM1-OM4)

50/125 & 62.5/125 μm multimode · short-reach high-bandwidth links

APPLICATIONS

- Data center interconnects
- Campus & building backbones
- 10 / 40 / 100 G short-reach links
- Storage area networks

CONSTRUCTION

- OM1/OM2/OM3/OM4 graded-index
- Corrugated steel-tape armour
- Tight-buffered sub-units
- LSZH flame-retardant sheath



OM aqua · armoured

SPECIFICATIONS**4-48F**

Fibre count

50 μm

Core (OM3/4)

4700

MHz·km (OM4)

LSZH

Sheath

MASS-FUSION SPLICING · ULTRA HIGH DENSITY

Ribbon Type Cable (96–288F)

Ribbon-stacked fibres · 12-fibre mass-fusion splicing · data-center density

APPLICATIONS

- Hyperscale data-center fabric
- High-count backbone trunks
- Central-office & PoP cabling
- Metro & long-haul aggregation

CONSTRUCTION

- Stacked 12-fibre ribbons
- Mass-fusion splice ready
- Gel-free dry-core water blocking
- HDPE / LSZH outer sheath



12-tube ribbon core

SPECIFICATIONS

96–288F

Fibre count

12F

Per ribbon

18 mm

Outer diameter

G.652D

Fibre type

PERMANENTLY LUBRICATED · CABLE PROTECTION

HDPE PLB Duct (*Telecom Duct*)

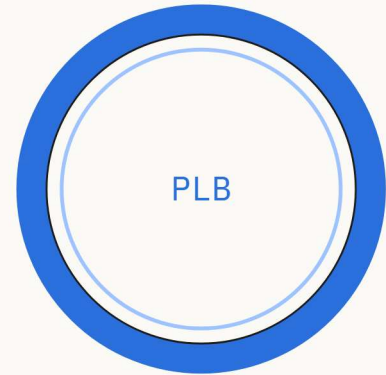
Permanently-lubricated silicone duct · low-friction cable blowing

APPLICATIONS

- Underground OFC protection
- High-speed cable blowing
- Highway & railway duct banks
- Trenchless & HDD routes

CONSTRUCTION

- HDPE PE-80 / PE-100 grade
- Permanent inner silicone lining
- Co-extruded colour stripes
- Sizes 32/26 · 40/33 · 50/42 mm



Silicore PLB duct

SPECIFICATIONS

40/33

OD/ID (mm)

PE-100

Material grade

12 bar

Pressure rating

1000 m

Coil length

COMPLETE OFC ECOSYSTEM

LIU, Closures & Patch Cords

Beyond cables, we stock a comprehensive range of fibre accessories, active equipment and installation consumables — sourced from reputed OEMs, fully tested, and available for same-day dispatch from our Delhi warehouse.

LIU / FMS · 6-96 PORT

Fibre Management Units

- Rack mount — sliding & non-sliding (1U/2U), 19"
- Wall mount lockable enclosure up to 96F
- 6F DIN-rail compact snap-on
- SC / LC / FC / ST adaptors · PC or APC

SPLICE CLOSURES · 6-96F

Joint Enclosures

- Dome / Bamboo & Tiffin (horizontal) types
- OPGW closures 24/48F · aluminium body
- FTTH pencil JC box for 1-4F drops
- FAT box 8/12/16/24 port · IP68 rated

MODEL	PORTS	MOUNTING	ADAPTORS
LIU-6	6F	DIN Rail / Wall	SC / LC / FC
LIU-12	12F	Wall / Rack 1U	SC / LC / FC / ST
LIU-24	24F	Rack 1U / Wall	SC / LC / FC
LIU-48	48F	Rack 2U / Wall	LC Duplex / SC
LIU-96	96F	Rack 4U / Wall	LC Duplex / SC

ACTIVE EQUIPMENT · TOOLS & CONSUMABLES

Equipment & Field Tools

OLTs · 4 / 8 / 16 Port

Carrier-grade GPON & EPON OLT chassis. Splits to 1:128 per PON port, 64+ ONUs. Uplinks 10GE SFP+ / GE combo, with web, CLI, SNMP & TR-069 management.

ONU & Wi-Fi Routers

EPON/GPON ONU routers — 1GE/4GE LAN, Wi-Fi 5/6, VoIP. Tenda AC1200 / AC2100 / AX1500 / AX3000 & mesh kits with TR-069 provisioning.

Patch Cords · All Types

LC · SC · FC · ST · E2000 (PC & APC), OM1–OM4 & OS2. Any combination, 1M–50M, LSZH jacket, factory tested IL ≤ 0.3 dB, RL ≥ 50 dB.

Media Convertors & SFP

10/100/1000 Mbps convertors, SM & MM. SFP / SFP+ transceivers 1.25G & 10G — single mode 20/40/80 km, multimode 550 m.

TOOLS & CONSUMABLES QUICK INDEX

Fibre Sleeves	40/60 mm heat-shrink, single & 12F ribbon, packs of 50/100/1000
Patch Panels & I/O	Cat6/6A 24/48 port copper · fibre 12–96 port
Bare Fibre	G.652D & G.657A1 single mode, spool 1–2 km (limited stock)
Duct Rodder	9" & 11" reels, 6–13 mm rods, 150–500 m fibreglass push rod
Isopropyl Alcohol	99% purity fibre-cleaning grade, 100 ml – 5 L
Clutch & Clipping Wire	Clutch 2 mm; clipping 1 / 1.5 / 2 mm GI/SS, 10–50 kg rolls
ADSS Hardware & Clamps	Suspension, tension, down-lead & fibre clamps · hot-dip galvanized
Aluminium Ladders	Telescopic 3–6 m & extension, anti-slip, FTTH & aerial work

ITU-T & TIA STANDARDS

Fibre Specifications

SINGLE MODE · G.652D

MFD @ 1310 nm	$9.2 \pm 0.4 \mu\text{m}$
Cladding diameter	$125 \pm 0.7 \mu\text{m}$
Attn @ 1310 nm	$\leq 0.35 \text{ dB/km}$
Attn @ 1550 nm	$\leq 0.22 \text{ dB/km}$
Dispersion @ 1550	$\leq 18 \text{ ps/nm} \cdot \text{km}$
Cutoff wavelength	$< 1260 \text{ nm}$

BEND INSENSITIVE · G.657A1/A2

Min bend radius (A1)	10 mm
Min bend radius (A2)	7.5 mm
Macro-bend loss (A2)	$\leq 0.1 \text{ dB}$
Attn @ 1310 nm	$\leq 0.35 \text{ dB/km}$
Attn @ 1550 nm	$\leq 0.22 \text{ dB/km}$
G.652D compatible	Yes

MULTIMODE · OM1 / OM2 / OM3 / OM4

OM1

62.5/125 μm · ≥ 200
MHz·km

OM2

50/125 μm · ≥ 500
MHz·km

OM3

50/125 μm · ≥ 2000
MHz·km

OM4

50/125 μm · ≥ 4700
MHz·km

TIA-598 STANDARD FIBRE COLOUR CODING

 1 Blue	 2 Orange	 3 Green	 4 Brown	 5 Slate	 6 White
 7 Red	 8 Black	 9 Yellow	 10 Violet	 11 Rose	 12 Aqua

TESTED TO IEC 60794

Quality Assurance & Testing

All cables we supply undergo rigorous quality testing and ship with manufacturer test certificates as per IEC 60794 standards.

OPTICAL TESTS

- Attenuation @ 1310 & 1550 nm
- Chromatic dispersion
- PMD measurement
- OTDR trace & splice loss
- Bandwidth (multimode)

MECHANICAL TESTS

- Tensile strength · E1
- Crush resistance · E3
- Impact resistance · E4
- Repeated bending · E6
- Torsion & kink · E7/E10

ENVIRONMENTAL TESTS

- Temp cycling -40 to +70 °C
- Water penetration · F5
- UV resistance (sheath)
- Humidity aging
- Cable sealing test

MANUFACTURER CERTIFICATIONS

ISO 9001:2015

ISO 14001:2015

BIS Certified

RDSO Approved

TEC Certified

DoT Approved

STANDARDS COMPLIANCE

IEC 60794

ITU-T G.652D

ITU-T G.657A1/A2

IS 14772

TEC GR

RDSO Railway OFC

— LARGEST OFC STOCK IN COMPLETE INDIA

Let's connect your *next project*.

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