About Us

Our Legacy

Technical Expertise

Industry Compliance

Solution Portfolio

Product-Testing & Quality Assurance

Authority Approvals

Support Centre Locations

About Cenfra Telco Systems.

Cenfra Telco Systems (CTS) is engaged in the design, development and manufacturing of structured cabling network infrastructure solutions that are used for transmission of Data and Voice connectivity over Ethernet which include Low Voltage Copper cables and Connectivity, Fiber optic infrastructure, Indoor and Outdoor Cabinets, Power distribution units and Telecommunication infrastructure products.

Our resilience and commitment has helped us to forge a niche in the passive networking component market. As a global player, we have build a team of technical design experts, logistics partners, supply chain vendors to provide our clients with tested high-performance and dependable connectivity solutions in Datacenter, Communication and Security Products.

As a proud **BICSI Corporate member**, we strictly adhere to BICSI standards in all our undertaking. Our expertise lies in harnessing the power of Cloud Computing, bringing your vision to life with unparalleled precision.

Our Legacy.

Cenfra Telco Systems (CTS) is a part of Metromac Group, a 40+ years company with branches in UAE, USA, Qatar and India. CTS is certified ISO 9001:2015(Quality Management System) and ISO 14001:2015 (Environmental Management System) and for ISO 45001:2018 (Occupational Health and Safety Management System).

INTEGRATED MANAGEMENT SYSTEM

ISO 9001:2015   ISO 14001:2015   ISO 45001:2018

Bicsi
CORPORATE MEMBER

CTS is part of Metromac- ELV, a Metromac Group of Companies.

Metromac is a 40 year old company with 250 + support staff across the GCC.

Six branches across the globe- USA, UAE, Qatar & India.

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified organization.

Well-managed in-house Supply Chain, Finance and Inventory management.

Sustainable, Innovative & efficient manufacturing facility for passive infrastructure solutions.

Technical Expertise.

Compliance
CTS diligently adheres to BICSI standards and best practices.

R & D
Certified in-house Research and Development team to develop innovative solutions

Product Support
Offer support across all stages: Pre-Sales, Product Positioning, and Post-Sale Audits.

Updated
Follow regular updates on standards and best practices for project specifications

Design Support
Design support for both consultants and end-users

Partner Program
Conducts programs for partner enablement, certification, and consultant training events.

Industry Compliance

ISO / IEC 11801 Standard, 2017 Edition

ISO/IEC 11801-1 – Generic Cabling for customer premises – Part 1: General Requirements
ISO/IEC 11801-2 – Generic Cabling for customer premises – Part 2: Office Premises
ISO/IEC 11801-3 – Generic Cabling for customer premises – Part 3: Industrial Premises
ISO/IEC 11801-4 – Generic Cabling for customer premises – Part 4: Single-Tenant Homes
ISO/IEC 11801-5 – Generic Cabling for customer premises – Part 5: Data Centres
ISO/IEC 11801-6 – Generic Cabling for customer premises – Part 6: Distributed Building services

ANSI/TIA-568

ANSI/TIA-568.0-E: Generic Telecommunications Cabling for Customer Premises
ANSI/TIA-568.1-E: Commercial Building Telecommunications Cabling
ANSI/TIA-568.2-D: Balanced Twisted-Pair Telecommunications Cabling and Components
ANSI/TIA-568.3-E: Optical Fiber Cabling and Components Standard
ANSI/TIA-568.4-D: Broadband Coaxial Cabling and Components
ANSI/TIA-568.5: Single Twisted Pair Ethernet Standards.

BS EN 50173

EN 50173-1:2018 General Requirements
EN 50173-2:2018 Office Spaces
EN 50173-3:2018 Industrial Spaces
EN 50173-4:2018 Homes
EN 50173-5:2018 Data Centre Spaces
EN 50173-6:2018 Distributed Building Services

Product Portfolio.

Passive Infrastructure Solutions

For a robust and scalable network infrastructure that meets the demands of the future.

Data Center Solutions

Providing with an environment cohesive to interoperability, security and reliability for this multi-cloud era.

Managed Power

Maximize power efficiency and avoid power failures with our managed power solutions.

FTTx Products & Specialty Cables

Smarter solutions for building smarter ecosystems.

Cabinets & Outdoor Enclosures

Providing with an environment cohesive to interoperability, security and reliability for this multi-cloud era.

Security Systems

Surveillance solutions to guard your assets from unscrupulous scenarios.

Passive Infrastructure Solutions.

CTS

■ High End Data Communication Copper Cables with Connectivity

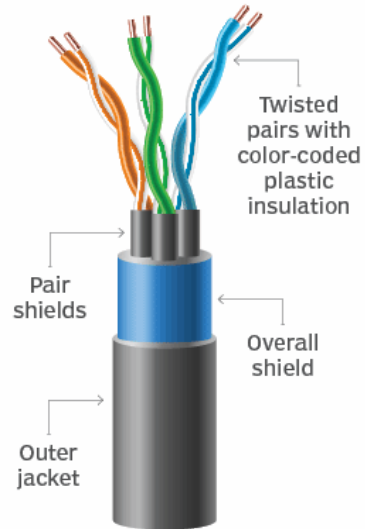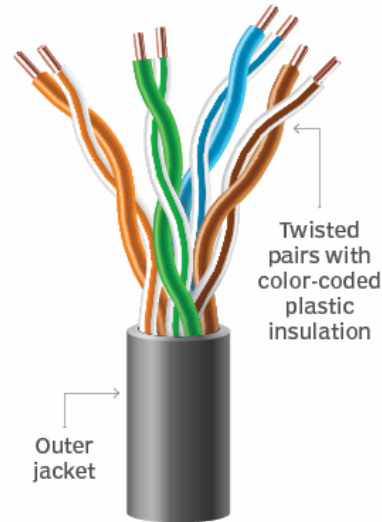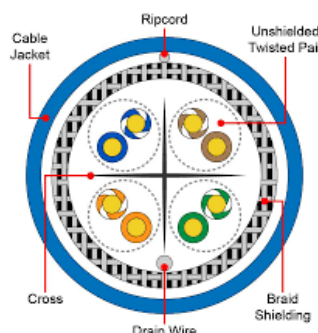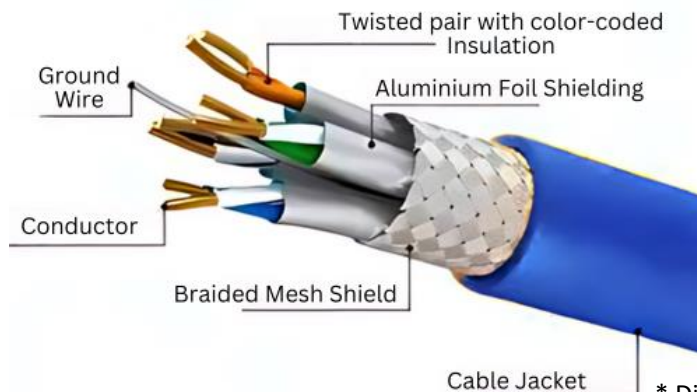| CAT 8.2	CAT 7A	CAT 7	CAT 6A	CAT 6	CAT 5e	CAT 3
Year: 2018 | Freq. Characterization: 2000MHz | Application: 40G | Types: Shielded	Year: 2010 | Freq. Characterization: 1000MHz | Application: 10+G | Types: Shielded	Year: 2002 | Freq. Characterization: 600MHz | Application: 10G | Types: Shielded	Year: 2008 | Freq. Characterization: 500MHz | Application: 10G | Types: Unshielded & Shielded	Year: 2002 | Freq. Characterization: 250MHz | Application: 1G/ Indoor & Outdoor| Types: Unshielded & Shielded/	Year: 1999 | Freq. Characterization: 100MHz | Application:100base-T | Types: Unshielded & Shielded	Year: 1991 | Freq. Characterization: 16MHz | Application: 10base-T Types: Unshielded

Types of Shielding & Sheath

Shielded twisted pair

Unshielded twisted pair

Twisted pairs with color-coded plastic insulation

Pair shields

Overall shield

Outer jacket

Twisted pairs with color-coded plastic insulation

Outer jacket

Twisted pair with color-coded Insulation

Ground Wire

Aluminium Foil Shielding

Conductor

Braided Mesh Shield

Cable Jacket

Ripcord

Unshielded Twisted Pair

Cable Jacket

Cross

Drain Wire

Braid Shielding

* Different sheath colors available

Types of Sheath
- PVC
- LSZH
- PE
- PLENUM

Types of Shielding

U/UTP	Overall Unshielded with Unshielded Twisted Pairs
U/FTP	Overall Unshielded with Foil Screened Twisted Pairs
F/UTP	Overall Foil Screened with Unshielded Twisted Pairs
F/FTP	Overall Foil Screened with Individual Foil Screened Twisted Pairs
S/UTP	Overall Braid-Screened with Unshielded Twisted Pair
S/FTP	Overall Braid-Screened with Individual Foil Screened Twisted Pairs
SF/UTP	Overall Braid Screened & Foil Screened with Unshielded Twisted Pairs
SF/FTP	Overall Braid Screened & Foil Screened with Foil Screened Twisted Pair

Distinctive Ethernet Cables

Patching System

Outdoor Rated	• Double Jacketed PVC/ LSZH / PE • UV Protection • CAT 6, CAT 6A Ethernet Cables
Fire Rated Cables	• 120 Minutes Circuit Integrity • Compliance to IEC 60331-25 • CAT 6, CAT 6A Ethernet Cables
Lift Cables	• Max. Pull Force : 1550N • TIA/EIA 568.2D, EN50173-1 and • ISO/IEC 11801-1 • CAT 6, CAT 6A Ethernet Cables
Armored Cables	• Steel Wire Armor (SWA) • Double Jacket/ Direct Burial Type • CAT 6, CAT 6A Ethernet Cables

Category	• CAT 3, CAT 5e, CAT 6, CAT 6A, CAT 8.2
Types	• Shielded / Unshielded • 22- 28 AWG
Jacket	• PVC, LSZH, PE • Customizable colors & length
Profile Type	• Standard, Slim, Flat Profiles
Compliance	• ANSI/TIA 568.2-D • ISO/IEC 11801

Copper Cable Accessories.

CTS

▮ Modular Connectors

Connector Category:	•CAT 5e •CAT 6 •CAT 6A •CAT 8.2
Shielding :	•Screened •Unscreened
Orientation:	•Angled •Straight
Compliance:	•ANSI/ TIA 568.2-D •ISO / IEC 11801

▮ Presentation Panels

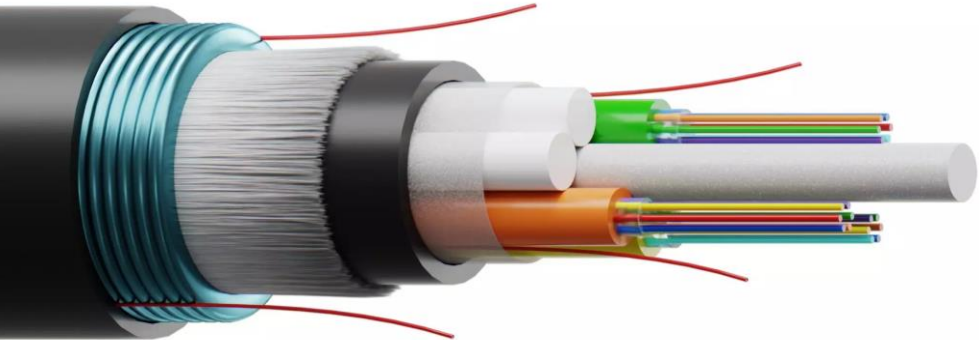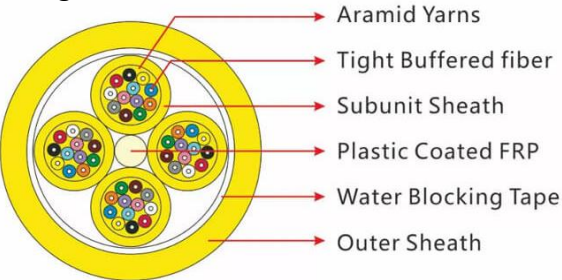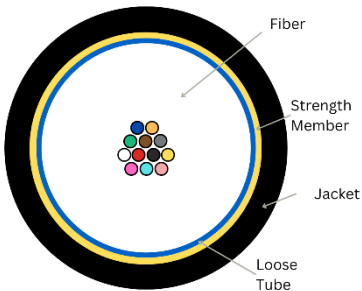| Type of Patch Panel	•Loaded •Unloaded •Shielded •Unshielded
If Loaded, Category of Patch Panel	•CAT 3 •CAT 5e •CAT 6 •CAT 6A
Orientation	•Angled •Straight •Staggered
Compliance	•ANSI/TIA 568.2-D •ISO/IEC 11801

* Multiple configurations available

Fiber Optic
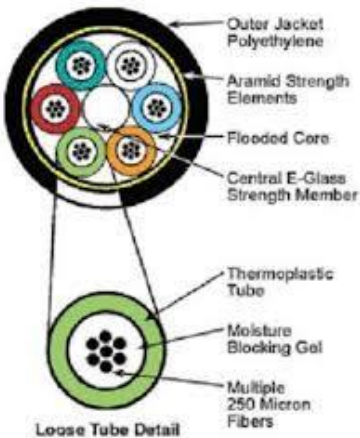
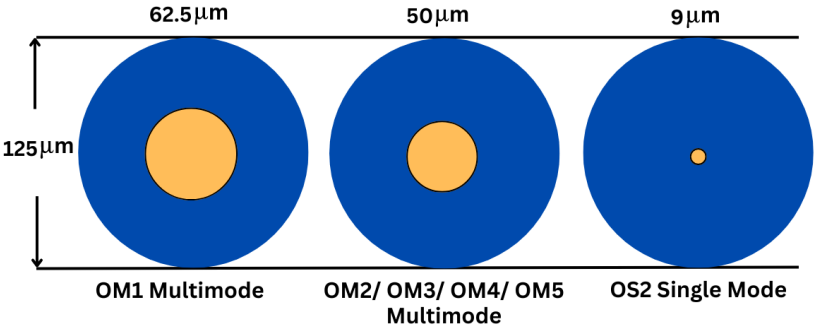## Optical Fiber Core Diameters

| | 62.5μm | 50μm | 9μm |
| OM1 Multimode | OM2/ OM3/ OM4/ OM5 Multimode | OS2 Single Mode |

125μm

Tight Buffered
- Aramid Yarns
- Tight Buffered fiber
- Subunit Sheath
- Plastic Coated FRP
- Water Blocking Tape
- Outer Sheath

Multi Loose Tube
- Outer Jacket Polyethylene
- Aramid Strength Elements
- Flooded Core
- Central E-Glass Strength Member
- Thermoplastic Tube
- Moisture Blocking Gel
- Multiple 250 Micron Fibers

Loose Tube Detail

Central Loose Tube
- Fiber
- Strength Member
- Jacket
- Loose Tube

Transmission Standards	OM1	OM2	OM3	OM4	OM5	Single Mode
100 Mb	≈550 m (1800 ft)	≈550 m (1800 ft)	≈550 m (1800 ft)	≈550 m (1800 ft)	N/A	N/A
1 Gb	≈220 m (722 ft)	≈550 m (1800 ft)	≈550 m (1800 ft)	≈1000 m (3281 ft)	N/A	≈10,000 m (32,800 ft)
10 Gb	≈33 m (108 ft)	≈82 m (269 ft)	≈300 m (984 ft)	≈550 m (1800 ft)	≈550 m (1800 ft)	≈10,000 m (32,800 ft)
40 Gb	N/A	N/A	≈100 m (328 ft)	≈150 m (500 ft)	≈150 m (500 ft)	≈10,000 m (32,800 ft)
100 Gb	N/A	N/A	≈100 m (328 ft)	≈150 m (500 ft)	≈150 m (500 ft)	≈10,000 m (32,800 ft)

N/A – Not Applicable | OM – Optical Multimode

Reliable Fiber Optic Cables with Accessories

Indoor, Outdoor and **Fire-Rated Fiber Cables** from 2 to 2400 Cores in SM and MM
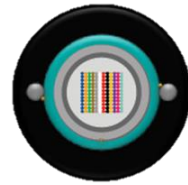
Ribbon Fiber Cable

Loose Tube Cable

Factory Tested For
Tensile Strength
Crush Resistance
Impact Resistance
Repeated Bending
Torsion
Water Penetration
Temperature Cycling

|	
Fiber Count	•2 to 2400 Core
Fiber Cable Mode	•Single Mode •Multi Mode
Ribbon Fiber Cable Configurations	•4F, 8F, 12F
Available Types	•Indoor, Indoor/ outdoor, Outdoor, Fire-Resistant, Armored versions in Metallic & Dielectric, Gel Free Micro Module FO cable for riser
FO Options Available	•ITU-T, G.652D, G.657A2, G.657B2, G.657B3
Fiber Color Coding according to ANSI/ EIA/ TIA 598	
Available Packing Option	•Bakelite •Wooden •Ironwood Drums
Standards	•ANSI/TIA-568.3-D •IEC 60793 •IEC 60794

Fire-Rated Fiber Optic Cables

FO Patch Panels
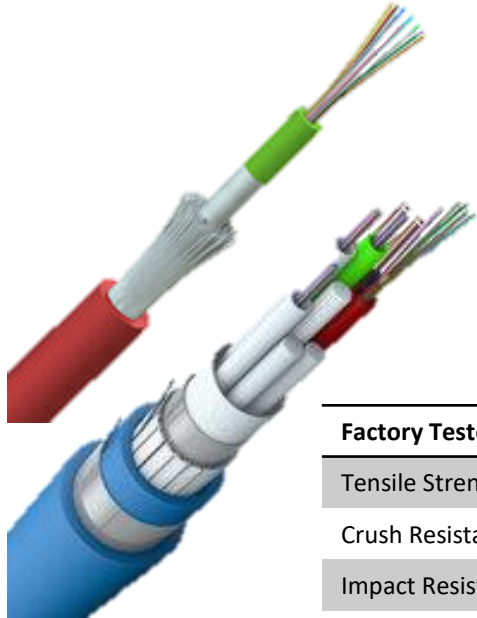
Fire-Resistant Fiber Cables with **proven fire resistance for beyond 120 minutes**, which comes in 2 to 144 Core armored construction.

Fiber Count	•2 – 144 Core

Fiber Color Coding as ANSI/EIA/TIA 598	

Packing Available:	•Bakelite, Wooden or Ironwood Drums

Compliance Standards	•IEC 60331-25 •IEC 60793

Factory Tested For

- Tensile Strength
- Crush Resistance
- Impact Resistance
- Repeated Bending
- Torsion
- Water Penetration
- Temperature Cycling

Available Version Types:	•Rack Mount •DIN Rail Mount Type •Slide & Swing Options

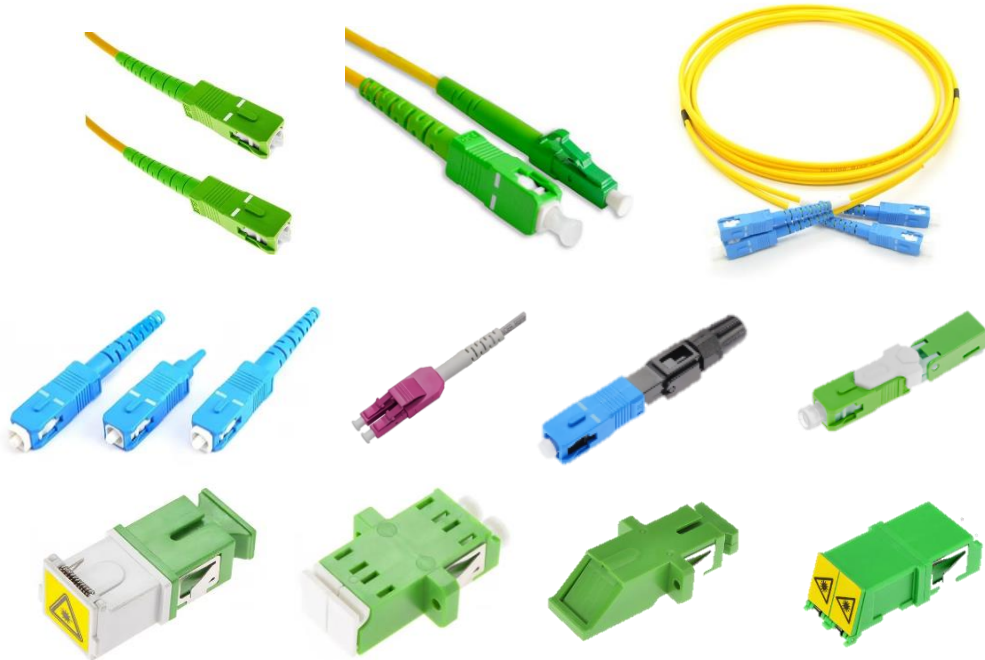| Available Panels:	•12 Port •144 Port

Features:	•Space Optimization •Built-in Splice Trays •Accommodates 30mm Bend Radius

Fiber Optic Accessories

We provide secure patch cords and connectors with pig tails and patch cords all factory tested. Tool free pre-polished connectors are available.

Available Accessories	• Pig Tails • Patch Cords • Connectors
Connectors Available in	• UPC • APC
Connector Types Available	SC, LC, MPO, MTP
Diameter	900 Microns, 2.0mm, 3.0 mm
Jacket	PVC and LSZH
Standards	IEC 61754-4 / IEC 61754-20 / IEC 61754-13

FTTx Solutions

Explore our comprehensive FTTx solutions range of drop cables, Micro/Mini ODF, gel free FO cables for risers, retractable FO cables, cabinets, splitters, patch-free FDH, retractable cables and APC accessories all tested and approved by the service providers.

Drop Cables	• 2 F • 4 F
Micro ODF	• 2 Port • 4 Port
Mini ODF	• Pre- Loaded (Max 48F) • Splice Only Version (Max 288F)
Deep Cabinets	• 150 mm • 350 mm
FO Splitters	• 2:16, 2:32, 2:8 splitters • LC/ APC & SC/APC Configuration
ONU Enclosures	
FTTx Cables	
APC Accessories	

Cabinets & Accessories
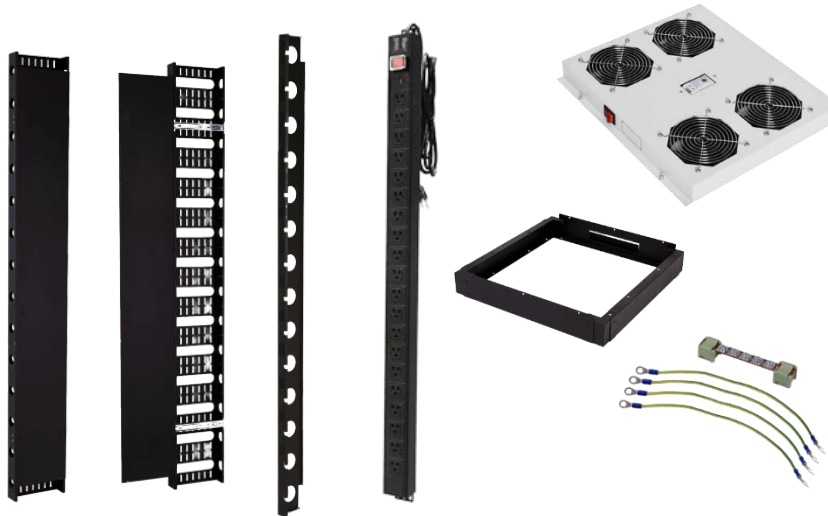
Cenfra Telco Systems (CTS) offers customized solutions for **free-standing and wall-mounted structures**, designed with higher load-bearing capacities, available **in galvanized steel, stainless steel**, and **aluminum.**

Cabinet Types
- Floor Standing
- Wall Mount Cabinets
- Co-Location Cabinets
- Custom-made Cabinets

Accessories
- PDUs (Vertical/Horizontal)
- Fan Cooling Units
- Shelves
- Vertical Cable Managers
- Patching Bracket
- Blank Filler Panels
- Heavy Duty Castors
- Leveling Feet
- Baying Kit
- Plinth
- Grounding Kit
- Lighting Modules

Cabinet Types

■ Wall Mount Cabinets

Cenfra Telco Systems (CTS) wall mount cabinets are all tested and certified for anti-corrosion. These can be customized to the color of your choice. It has built-in cooling fan units.

Mounting Space available from	• 4RU to 22RU
Standard depths	• 120mm to 800mm with 600 mm Width
Load Bearing Capacity	• Up to 60 Kg
Models	• Surface Mount / Flush Mount
Accessories Available	• PDUs, Shelves, Mounting frames, • Leveling Feet / Castors, Screws & Cage Nuts,
Customizable features	• Color • Top and bottom cable provision • Dual section cabinets available
Door Types	• Perforated Metal or Glass Door with universal lock & key
Standards	EIA 310, EN 61587-1, EN 62208, CE 2006/95/EC Low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive ASTM B117-16

Cabinet Types

Floor Standing Cabinets

Cenfra Telco Systems (CTS) floor standing cabinets are also tested and certified for anti-corrosion with an optimized air flow design. It comes with access controlled locking system with built-in cable management. These can be customized to the color of your choice.

Mounting Space available from	•18RU to 47RU
Standard depths	•600 mm to 1200 mm with Width 600 mm 0r 800 mm
Load Bearing Capacity	• Up to 1400 Kg
Accessories Available	•PDUs, Shelves, Mounting frames, Plinth •Leveling Feet / Castors, Screws & Cage Nuts •Provision for eye bolt
Customizable features	•Color •Top and bottom cable provision • Single or Dual Door Options
Cooling Feature	•Thermostat controlled fan units
Standards	EIA 310, EN 61587-1, EN 62208, CE 2006/95/EC Low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive ASTM B117-16

Cabinet Types

■ Co-Location Cabinets

Cenfra Telco Systems (CTS) co-location cabinets are also tested and certified for anti-corrosion with an optimized air flow design. It comes with access controlled locking system. These can be customized to the color of your choice.

Mounting Space available from	• 27RU to 47RU
Standard depths	• 600 mm to 1200 mm with Width 600 mm 0r 800 mm
Load Bearing Capacity	• Up to 1400 Kg
Accessories Available	• PDUs, Shelves, Mounting frames, Plinth • Leveling Feet / Castors, Screws & Cage Nuts, • Provision for Eye Bolt
Customizable features	• Color • Top and bottom cable provision • Single or Dual Door Options • 2 -4 Compartments
Cooling Feature	• Thermostat controlled fan units
Lock Feature	• Access controlled locking system • 3 point locking system
Standards	EIA 310, EN 61587-1, EN 62208, CE 2006/95/EC Low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive ASTM B117-16

Cabinet Types

IP Rated Cabinets

Cenfra Telco Systems (CTS) custom cabinets also tested and certified for anti-corrosion. It is custom made for special outdoor applications with an elite design and dust-proof feature. It also comes with access controlled locking system and is solar panel enabled. These can be customized to the color of your choice.

Cooling Method
Air Conditioned
Heat Exchanger
Thermostat Enabled fan Controlled units
Works with principle of cooling with ambient air
Maximum cooling output: Up to 2000W
1 Year product warranty on cooling unit

|	
Mounting Space available from	•6RU to 42RU
Protection Grade	• IP54 to IP68 and dust-proof •NEMA Compliant •Vandalism Protection
Load Bearing Capacity	• Up to 1400 Kg
Metal Sheet	•Galvanized sheet, 201 stainless sheet, 304 stainless steel
Customizable features	•Color •Solar-panel enabled
Cooling Feature	•Available
Lock Feature	•Access controlled locking system
Standards	IEC 60529, IEC 61000-4 Electromagnetic Compatibility, IEC 335-1 Safety Requirement, IEC 68-2 Environmental Requirements CE Third Party Certification 316L Sea-side application

Efficient Cable Management Systems
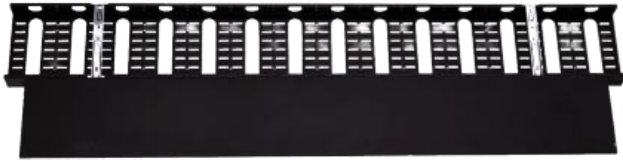
Cable Managers Option	• Plastic • Metallic
Finish	• Powder Coated For Metallic
Type	• Ring, Brush, Cover • 19" Mounting Options
Support Accessories	• Cable ties, Velcro tape, screws, Cage nuts

**Bending radius requirements incorporated into design for cable managers**

Various slotted designs

Customized lengths on vertical cable managers

Hybrid Data Centers

Cenfra Telco Systems (CTS) offers you with edge, modular, micro-modular data center solutions that are uniquely designed to provide you with an infrastructure foundation that is flexible, robust, highly efficient and has a smaller footprint. From custom-designed to pre-fabricated solutions, we provide an agile network that can house your data interoperability needs.
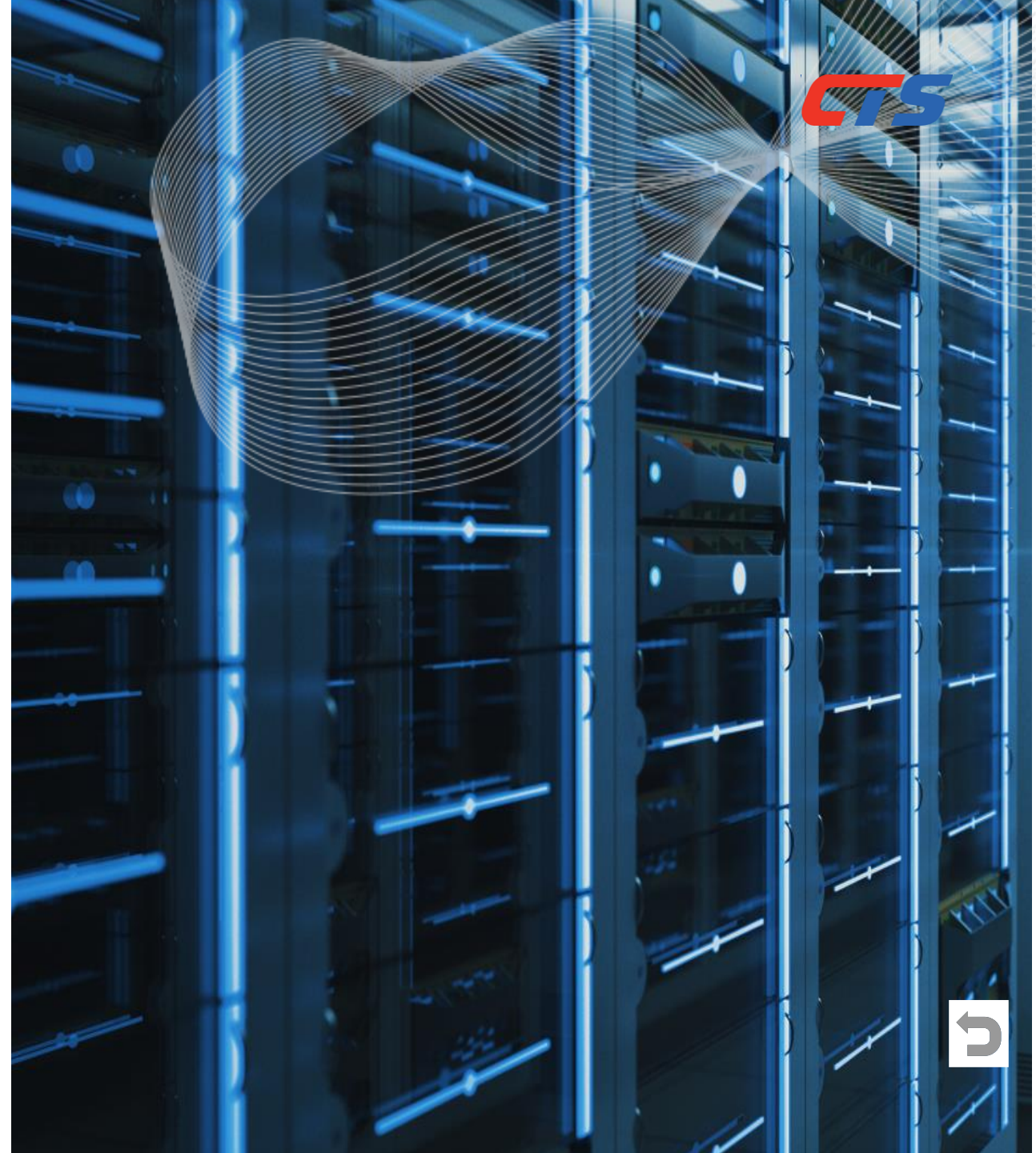
Resilient Data Center Solution.

■ Pre-Terminated Copper & Fiber Solutions

Has a modular design for changes in design and adaptability with over 60% smaller optical networking solutions freeing up raised floor and racking space.

Available in :	OS2, OM3, OM4
Pre-Terminated Copper Cables:	CAT 6A, CAT 8
HD Fiber Closure Models:	• 1U (144 Cores) • 2U (288 Cores) • 4U (576 Cores)
Factory Terminated& Tested Trunk Cables	• 8 - 144 Core
Polarity:	Type A (Straight), Type B (Reversed), Type C (Pairs Flipped)

Easy Plug & Play MTP / MPO Fiber Cassettes

Rivet Buckle Lockable Design Avoid Sliding

Standards	• ANSI/TIA 568.3-D • Telcordia GR-326-CORE • IEC 61754-7 • TIA 605-4 (FOCIS 5) • CE (EN 50575 CPR)

Data Center Raceways

Aisle Containments

RoHS Compliant

✓ Hot Aisle Containment
✓ Cold Aisle Containment

Cenfra Telco Systems (CTS) offers heavy duty & sturdy race ways for data center cable management with excellent ventilation & reduced dust retention to segregate, route, and protect fiber optic and copper cables from the building's entry point to termination and distribution equipment.

Key Features
Manufactured from Halogen free materials
Flame retardant UL94V-0
Designed for Faster Deployment, High Flexibility and easy maintenance
Electro zinc (EZ) for Indoor Use, Hot Dip Galvanized (HDG) for outdoor Use

Cenfra Telco Systems (CTS) provides standalone support structures, sliding doors, blanking panels, and roof panels to maximize utilization in both Hot and Cold Aisle Containment retrofits.

Key Features
Easier & Rapid Deployment in slab-based or raised data center deployment
Enhanced Reliability and protection.
Hotspot Negation and efficient heat management to save space in new build or retrofit
Optimized Air flow distribution by managing of hot air and cold air.
Improved Thermal performance of the cooling units by raising supply air set point temperature and higher return air temperature.

High Density Accessories

KVM Switches

Key Features

Space efficient with maximum connections

Various port configurations with 1U / 2U / 4U sizes

Compatible with standard connectors

Integrated Cable management

Easy access for maintenance and reconfiguration

Sliding-out design for easy installation

Modular design for easy upgradation

Cenfra Telco Systems (CTS) offers High-density fiber patch panels that are critical for managing complex fiber optic networks in data centers, telecommunications facilities, and enterprise networks. These panels accommodate large number of connections within a compact space, coupled with robust cable management and easy accessibility.

Key Features

3 in 1 LCD Console integrates the monitor, keyboard, and mouse.

Option to connect the LCD to a PC or KVM switch for multiple PCs

19" TFT LCD Monitor

Ultra Slim Keyboard with 99 keys & numeric keypad

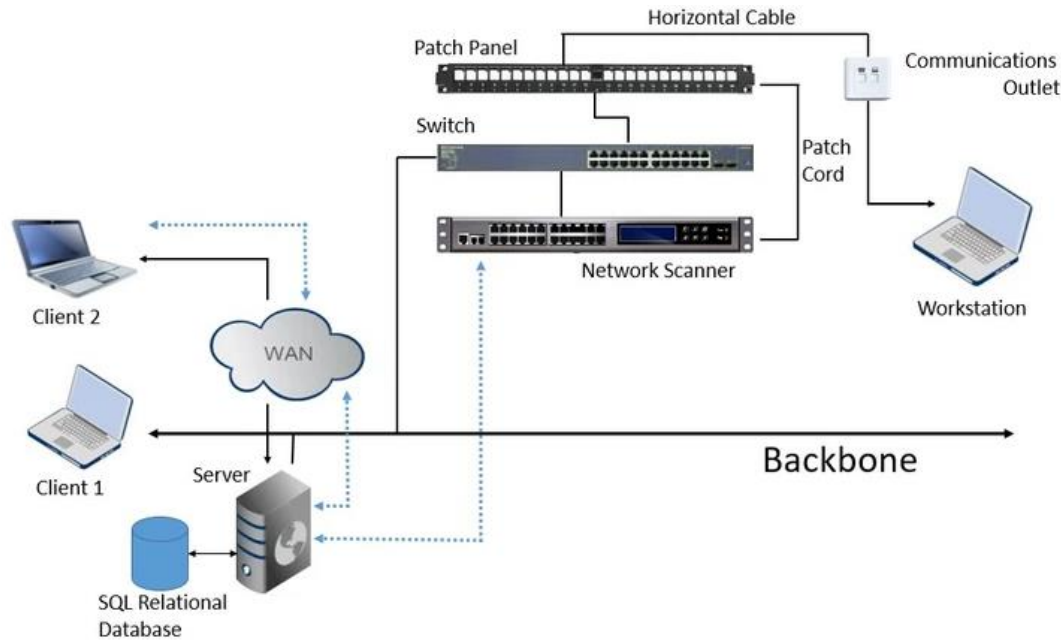Standard PS/2 emulation

Automatically lock up with front panel lock latch

Compact steel construction & high-quality hand-protection sliding rails

Cenfra Telco Systems (CTS) KVM switches and consoles are ideal for seamless, efficient server management and space optimization.

Intelligent Monitoring Solutions

Horizontal Cable

Patch Panel

Communications Outlet

Switch

Patch Cord

Network Scanner

Workstation

Client 2

WAN

Client 1

Server

Backbone

SQL Relational Database

CTS Intelligent Solution incorporates smart technologies and features to enhance the efficiency, reliability, and flexibility of network operations. The system integrates intelligence into the physical layer of the network, allowing for real-time monitoring and management.

Key Components
- ✓ Smart Patch Panels with Network Interface
- ✓ Infrastructure Management Software
- ✓ Optional Sensors

Applications
- ✓ Data Centre's
- ✓ Enterprise Networks
- ✓ Smart Buildings
- ✓ Industrial Environment

Key Features

| Enhanced Network Management |
| Improved Efficiency |
| Increased Security |

High Performance Power Distribution Units

We offer you basic, metered modular, mountable Power Distribution Units (PDU) with redundancy and surge protection features as well as Unlimited Power Supply (UPS) solutions in sturdy construction with different power capacities to help you streamline your energy management needs.

Applications
Datacenter Power Monitoring and Management
Telco Central Offices & Base Stations
Industrial Automation & Environmental Systems
Commercial Offices & Workspaces
Medical Facilities
Broadcasting Studios & Field Operations
Renewable Energy Solar and Wind Farms
Laboratories and Research Facilities
Transportation Systems

PDUs
- Standard PDU
- Intelligent PDU

Network Mode Supports
- Cascade type
- Parallel Type
- Series Type

Available Types
- Basic,
- Metered
- Modular
- Switched
- Customized PDUs.

Types of PDU

Typical Use	Basic	Metered	Monitored	Switched
Distribute Power To multiple devices (multiple outlets)	●	●	●	●
Locally View Reports PDU loading amps (digital load meter)		●	●	●
Remotely View PDU loads in amps & alarm conditions (network interface/ software)			●	●
Remotely Control Individual outlets (network interface/software/ switchable outlets)				●
Monitor Individual outlet current levels				●

PDU Components

Input Plug Types

BS 1363

32A-3

32A-5

IEC 60320 C14

IEC 60320 C20

16A-3

Output Receptacle Types

BS 1363

BS 1363 135 dg

BS 1363 45 dg

IEC 60320 C13

Universal

IEC 60320 C19

Other Modules

1P Mini Circuit Breaker

2P Mini Circuit Breaker

RCCB

Current & Voltage Display

SPD

Multi-Function SPD

Switch of Overload Protection

Overload Protector

Power Indicator Light

Power Switch

Robust Outside Plant Solutions

We specialize in customized OSP solutions built for outside plant applications that ensure uninterrupted connectivity no matter the environmental terrains. These are highly sort after product range by telecom operators and supports use in **industrial, hazardous** and **oil and gas applications**.

FRP & GRP Enclosure

Fiber Distribution Hub

MADE IN SPAIN MADE IN

RoHS Compliant

Telecom Feeder Panel

FTB

Features

Ingress protection in Copper & Fiber Applications

Optimized design for accommodating higher density for Copper & Fiber

Fiber Optic Splice Closures

FO Splice Enclosure Capacity:	• Single fiber splice capacity up to 576 Fibers
Types	• Dome and In-Line type Closures
Applications	• Aerial / Underground / wall mount applications

Specialty Cables with Connectivity

Our versatile cable portfolio also has elevator cables for seamless vertical transportation and co-axial cables designed for reliable outdoor connectivity.

Elevator Cables

Cable types	• Category 6 / 6A • 24/23 AWG • Bare copper
Available Construction Types	• Flat • Round
Insulation	• HDPE
Outer Sheath	• PVC / Rubber

Key Features

Reliable data communication in the dynamic environment of elevator shaft

Withstands mechanical stresses including repeated flexing & bending.

Coaxial Cables

RoHS Compliant

SCTE®

Available Types	•RG59, RG6, RG11
Sheath	•PVC •LSZH
Suitable for	•SMATV, Security, Radio Communication applications
Supreme EMI Protection	
Standards	•ANSI/TIA 568.4-D •ISO/IEC 11801-1:2017

Control Cables
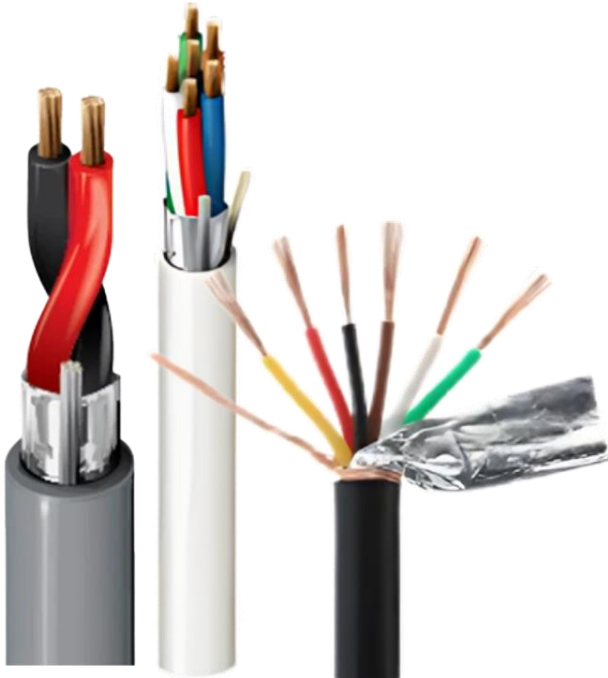
Cenfra Telco Systems (CTS) control cables are ideal for broad array of applications in electrical and instrumentation sector. Their advantages are that it is lightweight and has a flexibility that will suit any structure.

Control cables can be applied to **BMS system, lighting control, home automation, CCTV, video intercom, door access control, lift access control, AV system, master clock system, public address.**

Certifications & Approvals

ISO9001, ISO14001, OHSAS18001, UL444, UL13

RoHS: Compliant Directive 2011/65/EU CPR E class

No & Type of Conductors	•2C, 3C, 4C, 6C •Tinned Copper or Bare Copper
Available Types	•12 AWG, 14 AWG, 16 AWG, 18 AWG, 20 AWG, 22 AWG, 24 AWG •Indoor & Outdoor Versions
Sheathing	•Unshielded & Shielded
Outer Sheath	•PVC, FR-PVC, LSZH, PE
Belden equivalent	•8471, 8719, 8723, 8760, 8771, 9740, 9841, 9842, DEDN182U, 6504FE, 4202FE

Submersible Cables

Key Features

Water proof and moisture resistant

Durability

Flexibility

Corrosion Resistant

No & Types of Conductors	•3C, 4C •IS 8130 Compliant Flexible Bare Stranded Copper
Insulation	•PVC / XLPE / EPR Rubber
Outer Sheath	•PVC/ EPR Rubber
Available Construct-ion Types	•Flat •Round
Standards	•IS 694: 2010, •BS 6500 •IEC 60227

Speaker Cables

RoHS Compliant

Certifications & Approvals

ISO9001, ISO14001, OHSAS18001, UL444, UL13

RoHS: Compliant Directive 2011/65/EU CPR E class
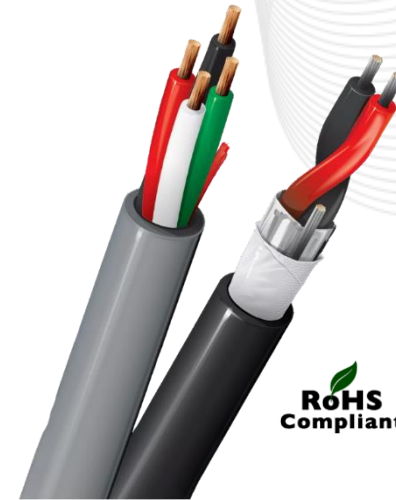
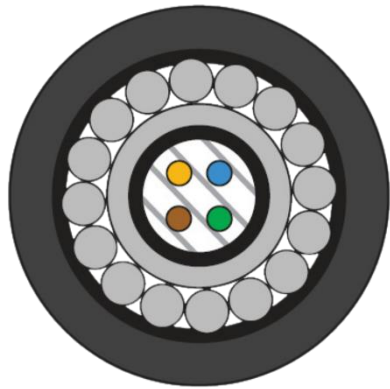| Types	•2C, 3C, 4C Tinned Copper or Bare Copper
Insulation	•PVC, FR-PVC, PP
Outer Sheath	•PVC, FR-PVC, LSZH
Available Model	•12 AWG, 14 AWG, 16 AWG, 18 AWG, 20 AWG, 22AWG
Belden Equivalent	•5000,5100, 5200, 5300, 5400, 5500, UF/UH

Tactical Cables

Cenfra Telco Systems (CTS) Tactical cables are designed for use in harsh environments.

Fiber Count	•2 – 12 Fibers
Construction	•Fibers are placed in gel-filled stainless steel tubes with armouring and strain relief made of stainless steel wire with a jacket of PA-12
Applications	•Military, Broadcast, Industrial, Emergency Services
Standards	•IEC 60793 •IEC 60794 •Telcordia GR-20 •TIA/EIA 598

Key Features

Rugged Construction

Flexible

Lightweight

High Performance

Tether Cables

These Airborne Central Tech Source Tether fiber cables are specialized for use in tethered aerial platform such as drone or balloon providing high-speed data transmission between the airborne device and a ground station

Construction	•6 Core Fiber + 4 Core Fiber, •3 Core fiber + 4 Core Power •1 Core Fiber + 2 Core Power
Applications	•Surveillance and Reconnaissance •Emergency Response •Border Security •Renewable Energy Wind Turbines •Scientific Research •Broadcasting & Media
Standards	•IEC 60793 •IEC 60794 •Telcordia GR-20 •TIA/EIA 598
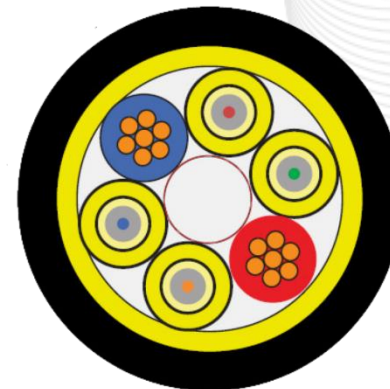
Key Features

High Bandwidth & Low Latency

Durability & Flexibility

Environmental Resistance

Signal Integrity

Festoon Cables

Cenfra Telco Systems (CTS) Festoon cables are designed for use in industrial applications where continuous flexing and moving is required.

Key Features

Key Features
Oil & Grease Resistant
UV Protection
Flexibility
Durability
High Tensile Strength
Compact Design

Fiber Count
- 2 – 96 Fibers

Applications
- Cranes
- Elevators
- Automated Machinery
- Conveyers

Standards
- IEC 60793
- IEC 60794
- Telcordia GR-20
- TIA/EIA 598

sales@cts-usa.tech | www.cts-usa.tech

Product-Testing & Quality Assurance

All our products undergo rigorous testing at certified laboratories, where they are subjected to mechanical and environmental conditions that simulate real-world application scenarios. Our certifications are acquired through thorough evaluation at esteemed laboratories to attest the superior performance of **CTS** components.

Intertek (US):
ETL verification on performance parameters of copper cables and accessories like;

- NEXT
- Insertion Loss & Return Loss
- PSNEXT (Power Sum Next)
- ACR-N (Attenuation to Cross Talk Ration Near End), PSACR-N, ACR-F, PSACR-F
- PSANEXT (Power Sum Alien Near End Cross Talk)

Wimpey Labs (UAE):
Fiber Optic cables and components are tested using OTDR, visible light source, power meter and light source method for the below parameters:

- Attenuation
- Insertion & Return Loss

Other Parameters Tested
- Tensile Strength
- Crush Resistance
- Cable Bending
- Temperature Cycling

Compliance Standards:

ISO9001, ISO14001, OHSAS18001
ISO/IEC 11801-1, TIA-568.2-D, IEC 61156-5, EN 50173-1, EN 50288-10-1
IEC-60794-1-21 & 22
IEC 60332-1-1/2, IEC 60754-2, IEC 61034-1
ASTM B117-16

ETL Certifications

3933 US Route 11
Cortland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (607) 758-6637
Web: www.intertek.com

ETL Verified Certificate of Conformance Number: 105838319CRT-001f

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the electrical transmission requirements of the referenced specification(s) at the time the tests were carried out.

Rendered to:
CTS
16192 Costal Highway
Lewes, DE 19958
USA

www.cts-usa.tech

Contact: Ms. Lydia Alexander

Product tested:	Category 6A, 4-pair, 23 AWG, U/UTP, LSZH, horizontal (solid) cable
Part number(s):	CCC6AUULSGY
Compliant to:	ANSI/TIA-568.2-D
	EN 50173-1
	EN 50173-2
	EN 50288-11-1
	IEC 61156-5
	ISO/IEC 11801-1
Authorized marking:	ETL VERIFIED TO ANSI/TIA-568.2-D, EN 50173-1, EN 50173-2, EN 50288-11-1, IEC 61156-5 and ISO/IEC 11801-1 CATEGORY 6A

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: 28-May-2024

Approved By: *Antoine Pelletier*
                    Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

This Verification is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to copy or distribute this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this Verification are relevant only to the sample tested. This Verification by itself does not imply that the material, product, or service or has ever been under an Intertek certification program.

ETL Verified CoC Number	Certified Products
CoC 105838319CRT-001c	Category 6 23 AWG U/UTP Cable
CoC 105838319CRT-001a	Category 6 UTP Modular Jack
CoC 105838319CRT-001b	Category 6 UTP Patch Cord
CoC 105838319CRT-001f	Category 6A 23 AWG U/UTP Cable
CoC 105838319CRT-001d	Category 6A UTP Modular Jack
CoC 105838319CRT-001e	Category 6A UTP Patch Cord
CoC 105838319CRT-001i	Category 6A 23 AWG U/FTP Cable
CoC 105838319CRT-001g	Category 6A Shielded Modular Jack
CoC 105838319CRT-001h	Category 6A Shielded Patch Cord

Product-Performance & Warranty

CTS solutions come with the provision of 25-year limited performance warranty to ensure your interests are protected.

The CTS 25-Year System Warranty covers:

- **25 Year Performance warranty** is offered to the performance of the system built using the complete connectivity solution from Cenfra Telco System.
- Warranty is Compliant to **ANSI/TIA/EIA and the ISO/IEC specifications** in effect at the time of installation.
- This warranty is applicable to systems that are designed, installed, documented, registered and tested by **CTS partners who have undergone training certification**.
- The warranty will be void in the following cases
  - Any physical damage caused by accidents, misuse, neglect or natural disasters
  - Unauthorized modification or repairs of the system by a non CTS-Certified personnel.
  - Components not supplied by CTS or not installed according to CTS guidelines.
  - The duration is strictly limited to the period specified in the certificate and will not extend beyond that timeframe.
  - Warranties are processed through **a written submission of the claim form** to the customer support team of CTS.
- Warranties **are issued following an audit of test data** and are subject to approval by the CTS technical support team during a site audit. All links requiring warranty support must be 100% tested.

Authority Approvals

As a manufacturer, Cenfra Telco Systems (CTS) products have acquired certifications from governing authorities for the distribution rights of our products in the UAE.

Micro Optical Distribution Frame	Pre-Terminated and Splice Only Mini ODF	Fiber Optic Splitters – SC/APC & LC/APC	FTTH Drop Cables - 1 core / 2 core / 4 core
Low Density and High-Density FO Patch Panels	Multicore Single Mode G.657A2 FO Cable	Fiber Optic Accessories – Pigtails, Adapters, Patch Cords	Complete CAT6 Unshielded Solution
Complete CAT6A Shielded Solution	ONU Cabinet (Residential and Commercial Grade)	Wall Mount Cabinets	Entire range of Floor Standing Cabinets
Fiber Raceways	Coaxial Solution	Home Automation Cabinets, Cables & Accessories	HD ODF, Splice Enclosures, FO Ribbon Cables

TDRA

هيئة تنظيم الاتصالات والحكومة الرقمية
TELECOMMUNICATIONS AND DIGITAL
GOVERNMENT REGULATORY AUTHORITY

etisalat by e&

CE

Cenfra
Telco
Systems

Support Centre Locations

Dubai
WS 104, Dubai Maritime City
UAE

Delaware
16192, Coastal Highway, Lewes
USA

Ahmedabad
Amrutbaug Colony, Navrangpura
India

Doha
Birkat Al Awamer, Al Wakrah
Qatar

sales@cts-usa.tech | www.cts-usa.tech

Thank You