



TELECOM **CONNECTIVITY** **SOLUTIONS**

Empowering a Global Future of IT Infrastructure
Space with Passive Networking Solutions

TELECOM CONNECTIVITY SOLUTIONS

Reliable Infrastructure for Modern Communication Networks

Telecom Backbone | Smart City Ready | Broadband Infrastructure | Standards-Compliant Connectivity



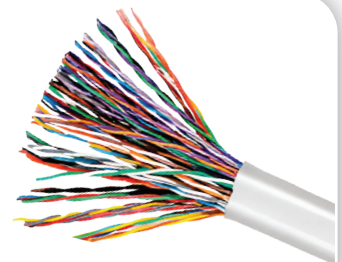
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Build for scalable communication networks

Telecom networks require high bandwidth, resilient infrastructure, and reliable connectivity to support growing digital services and nationwide fiber deployment. 3C3 telecom solutions are designed to support telecom operators, smart city networks, and broadband infrastructure deployments.

10–100 PAIR TELECOM CABLE

Designed for backbone and distribution wiring in telephone exchanges, MDF rooms, building riser networks, and last-mile copper deployments. Complies to IEC:60228, ASTM D-2863, ASTMD 2843, IEC 60754-I, IS 5831, IS 8130 for Category 3. Cable Characterized up to 100 MHz.



Key Features

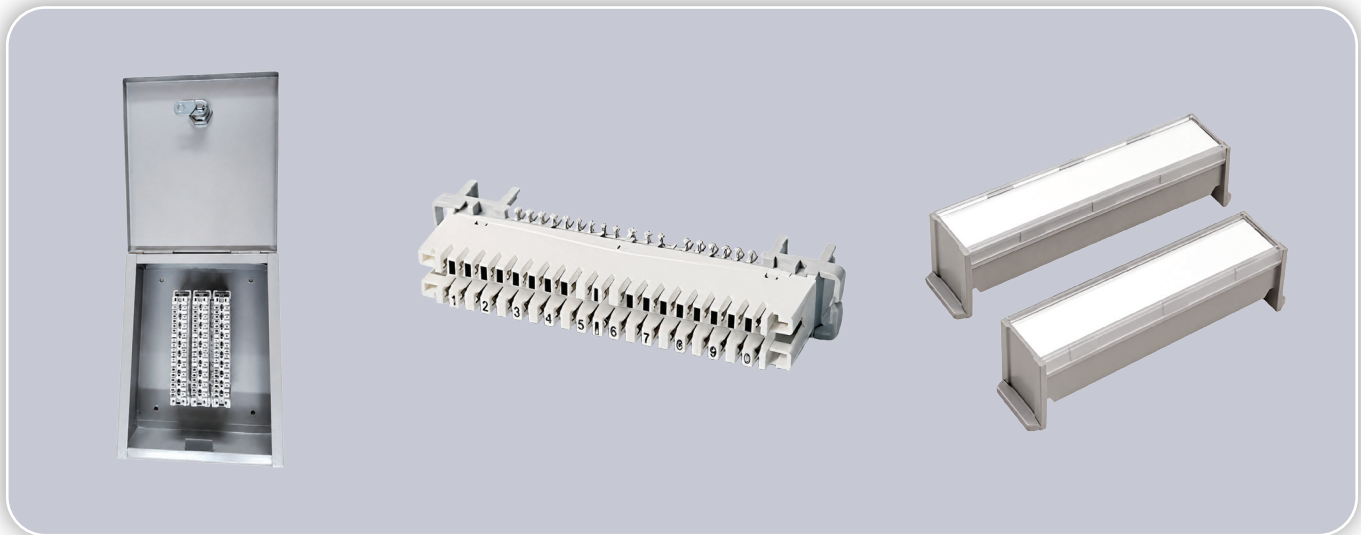
- 10 to 100 pair configurations available.
- Annealed copper conductor - low attenuation.
- Unit colour-coded pairs for fast termination.
- PVC jackets.
- Suitable for voice, DSL, and broadband over copper.
- Compliant with TEC, ITU-T G.712, and IEC 61156.

Key Benefits

- Simplifies large-scale copper distribution planning.
- Reduces termination time with clear colour coding.
- Reliable for voice and xDSL services long-term.
- Proven performance in exchange and riser environments.

MDF BOX (MAIN DISTRIBUTION FRAME) & KRONE MODULE

The MDF box is the central termination and cross-connection point between exchange side and subscriber-side copper pairs. Available in wall-mount and floor-standing configurations with Krone LSA-Plus IDC module compatibility. Krone LSA-Plus modules provide reliable IDC termination for exchange-side and subscriber-side copper pairs, compatible with MDF boxes, distribution frames, and splice housings.



Key Features

- Modular design for scalable capacity expansion.
- Krone LSA-Plus IDC module compatible.
- High-density termination in compact footprint.
- Cable management guides and strain relief built-in.
- Available from 100 to 1200 pair capacity.
- Wall-mount and floor-standing variants.
- LSA-Plus IDC - no conductor stripping required.
- Phosphor bronze for low contact resistance.
- SPD variant for surge protection.
- Snap-in tool-less mounting on MDF frames.
- 10 pair per module for high-density use.
- Compatible with standard Krone punch-down tools.

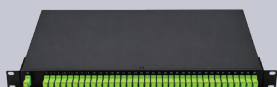
Key Benefits

- Centralises cross-connection for easy fault isolation.
- Modular expansion reduces upfront CAPEX.
- IDC termination reduces installation time significantly.
- Built-in guides prevent cable damage.
- Scalable without replacing the entire fra.
- Suitable for small ISPs and large exchange rooms.
- Fastest copper termination method available.
- Low resistance ensures consistent voice quality.
- SPD variant protects equipment from transients.
- Fast snap-in reduces MDF installation time.
- High pair density in minimum frame space.

FIBER OPTIC SPLITTERS

Rack Mount · Wall Mount · PLC Type · ABS

Split ratios ranging from 1:2 to 1:64 are supported using advanced Planar Lightwave Circuit (PLC) technology, ensuring uniform optical signal distribution. Manufactured in compliance with IEC 61755, Telcordia GR-1209, and GR-1221 standards, the splitter is ideal for GPON, XGS-PON, and EPON networks, making it suitable for a wide range of FTTx deployments, including FTTH and FTTO applications.



RACK MOUNT

1U/2U chassis for ODF or 19" rack installation in OLT rooms and exchange facilities.



PLC SPLITTER

Planar Lightwave Circuit chip - low insertion loss, uniform split, wavelength - independent.



ABS SPLITTER

Plug-in cassette for ODF and wall enclosures - easy hot-swap and capacity upgrade.



WALL MOUNT

Compact wall housing for local distribution nodes, buildings, and street cabinets.

Key Features

- PLC chip for uniform wavelength-independent split.
- Low insertion loss across all split ratios.
- 1:2 to 1:64 split ratio range.
- SC/APC and SC/UPC connector options.
- Rack, wall, and ABS cassette housing formats.
- -40°C to +85°C - outdoor enclosure rated.
- IEC 61755 and Telcordia GR-1209 compliant.

Key Benefits

- One passive component serves up to 64 subscribers.
- No active power - zero maintenance splitting.
- Uniform loss gives consistent service to all users.
- ABS cassette enables hot-swap capacity upgrade.
- Rack-mount integrates into ODF and OLT rooms.
- Suitable for indoor and outdoor deployment.
- Supports GPON gigabit broadband rollout across India.

CUSTOMER OUTLET BOX (COB)

The 3C3 Customer Outlet Box provides the final termination for copper telephone lines at customer premises - suitable for residential, commercial, and multi-tenant deployment with RJ11 or IDC termination.



Key Features

- Surface-mount and flush-mount variants.
- 1, 2, and 4-port configurations.
- RJ11 and IDC termination options.
- Flame-retardant ABS plastic.
- Neat internal cable management.
- Supports voice (POTS) and DSL services.

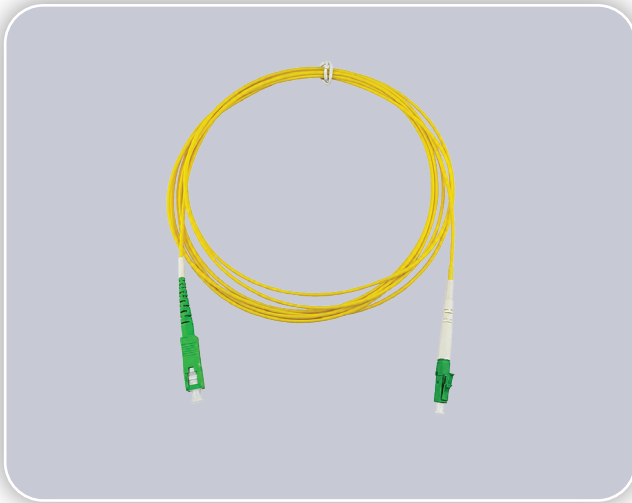
Key Benefits

- Clean finish at all premises types.
- Flexible mounting for any installation.
- Dual termination options for installers.
- Fire-safe material for building compliance.
- Professional appearance for customer sites.
- Supports both legacy voice and broadband.

TELECOM APC PATCH CORDS

Low Return Loss · Single-Mode · Precision Angled Ferrule

Telecom APC (Angled Physical Contact) patch cords are designed for low return loss applications in FTTx, CATV, GPON, and high-sensitivity telecom networks. The 8° angled ferrule achieves a return loss of ≥ 60 dB - critical in analog video overlay, amplified networks, and coherent WDM systems.



Key Features

- APC 8° ferrule for ≥ 60 dB return loss.
- SC/APC, LC/APC, FC/APC, E2000 options.
- OS2 G.657.A1/A2 bend-insensitive fiber.
- LSZH jacket for indoor fire safety.
- Green boot universally identifies APC.
- Duplex and simplex configurations.
- 0.5 m to 10 m - custom lengths available.
- 100% factory end-face inspection.

Key Benefits

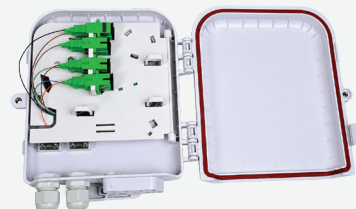
- Eliminates back-reflection in sensitive links.
- Essential for CATV and analog overlay.
- G.657 fiber handles tight cable routing.
- LSZH meets building fire compliance.
- Green boot prevents UPC/APC mix-ups.
- Compatible with all major OLT and ODF brands.
- Factory testing reduces site rework to zero.
- Low loss maximises optical link budget.

FIBER DISTRIBUTION BOX

Designed to facilitate quick and easy installation of drop cables, this compact distribution box allows for efficient fiber splicing, splitting, and routing management. Perfect for small-scale FTTH drops, it ensures solid mechanical protection for passive optical networks.

Key Features

- Supports both wall and pole mounting options.
- IP55 rated for dependable dust and moisture protection.
- Accommodates 1x4 and 1x8 PLC Splitters.
- Constructed from high-impact, anti-UV, and rainfall-resistant plastic.



OPTIC ENCLOSURE

OPTIC JOINT ENCLOSURE (IP68)

Engineered for high - capacity long - distance transmissions and trunk lines, this robust IP68 dome enclosure safely connects and protects single-core or bunch cables. Highly versatile, it supports underground, aerial, direct buried, pedestal, and duct-mounting applications.



Key Features

- Advanced internal structure with tool-free re-entry mechanisms.
- Elastic seal fitting for quick future capacity upgrades.
- Secure dome-to-base mechanical sealing clamp with O-ring system.
- UV stable, lightweight, and compact structural design.

IP65 RATED FIBER OPTIC OUTDOOR ENCLOSURE

A multi-purpose, highly customizable outdoor utility enclosure optimized for general and mechanical deployment. Designed to safely house terminal plates, DIN rail modules, power distribution components, and specialized measuring or gauge equipment.



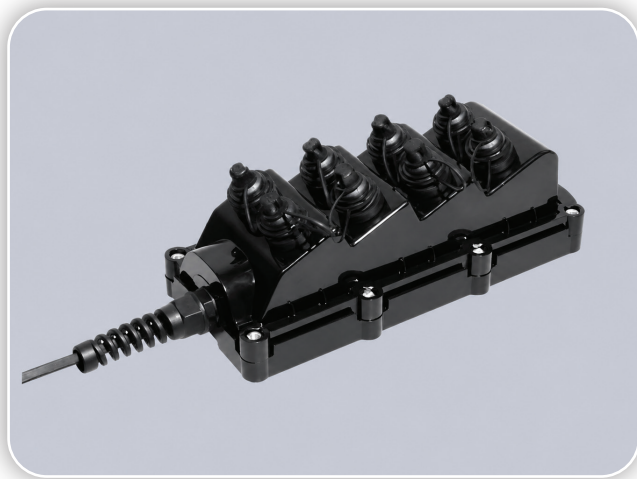
Key Features

- Total protection against dust entry and strong water jets.
- Superior impact resistance rated at IK08.
- Highly customizable with built-in DIN rails and plate brackets.
- Supplied with premium accessories: cable glands, pole mount clamps.
- Excellent exterior processing performance and high structural strength.

FTTA BOX

Fiber to the Antenna · Outdoor BBU-RRU Termination Enclosure

FTTA Box is a rugged outdoor fiber termination enclosure for mobile telecom tower installations. It provides a weatherproof termination point for CPRI fiber cables running between the BBU at the tower base and the RRU at the antenna mast head - protecting connections from UV, moisture, dust, and mechanical stress.



Key Features

- IP68 complied for outdoor tower use.
- 4, 8, 12, 24 port with SC and LC adapter options.
- Internal splice tray for field splicing.
- Multiple PG gland cable entries.
- Pole and tower-leg mount options.
- -40°C to +65°C outdoor rated.
- Stainless steel mounting bands.
- Tamper-resistant keyed locking.

Key Benefits

- IP68 eliminates moisture ingress at tower tops.
- Splice tray allows field repair without box swap.
- Flexible entry supports multi-operator builds.
- Stainless bands resist rust in coastal environments.
- UV-stable for direct sunlight long-term.
- Sealed design reduces maintenance and OpEx.
- Pairs with 3C3 CPRI patch cords for full supply.

CPRI PATCH CORDS

Common Public Radio Interface · 4G / 5G Fronthaul Connectivity

CPRI patch cords connect the Baseband Unit (BBU) to the Remote Radio Unit (RRU) on 4G and 5G mobile towers. 3C3 CPRI patch cords are engineered for outdoor tower environments, providing low-loss, low-latency fiber connectivity with precise CPRI timing for high-integrity fronthaul links.



Key Features

- Supports CPRI options 1–10 up to 24.3 Gbps.
- LC/UPC duplex - standard tower interface.
- Outdoor armoured jacket for harsh tower environments.
- G.657.A2 bend-insensitive for tight routing.
- -40°C to +85°C for outdoor tower operation.
- CPRI V7.0 and eCPRI compliant.
- Factory-tested for IL and RL before dispatch.
- Custom tower lengths on request.

Key Benefits

- Ensures timing precision for 4G/5G fronthaul.
- Armoured jacket withstands tower vibration and UV.
- Low IL maximises RF link budget at tower tops.
- G.657 fiber handles bends at antenna masts.
- Outdoor rating prevents cold-weather failure.
- eCPRI compatibility future-proofs for 5G.
- Pre-tested assembly eliminates site test delays.
- Trusted by telecom operators across India.

OUTDOOR TELECOM RACK

Weatherproof Equipment Enclosure · Street & Tower Deployment

Outdoor Telecom Rack is an IP/NEMA-rated enclosure designed for mounting active and passive telecom equipment in street-level, roadside, tower-base, and outdoor exchange environments. Built from heavy-gauge cold-rolled steel with anti-corrosion treatment, these racks protect sensitive equipment from weather, dust, vandalism, and thermal extremes.



Key Features

- IP55/IP65 protection against dust and water.
- 19" EIA standard - all telecom equipment compatible.
- 6U to 32U - right-sized for each deployment.
- Thermostat-controlled active cooling available.
- Heavy-gauge steel with anti-corrosion coat.
- Three-point lock and padlock provision.
- Internal earth bar per IEC 60364.
- Wall, floor-stand, and pole-mount options.

Key Benefits

- Weatherproofed for all-year outdoor operation.
- Standard 19" format fits all major brands.
- Scalable capacity reduces enclosure field count.
- Active cooling prevents summer overheating.
- Anti-corrosion finish for coastal environments.
- Three-point lock protects against vandalism.
- Compliant earthing ensures safe installation.
- Flexible mounting suits street and tower sit.

OUR COMMITMENT

At 3C3, culture is our ultimate strategy. It shapes how we think, work, and win together. These principles are the foundation of how we deliver excellence and grow as one team.

Integrity & Trust: We act with honesty and transparency. We keep promises, admit mistakes, and own outcomes.

Customer Obsession: We put customers at the heart of every decision listening, anticipating, and delivering beyond expectations.

Innovation & Excellence: We challenge the status quo, embrace new ideas, and continuously raise the bar in technology and execution.

Ownership & Accountability: We think and act like owners. We take initiative, follow through, and measure success by results.

Collaboration & Respect: We value diverse perspectives, work as one team, and communicate openly with empathy and respect.

Growth & Learning: We learn fast, share knowledge, and invest in the growth of our people and our company.

Every leader at 3C3 is accountable for living these values daily making decisions, recognizing role models, and integrating culture into hiring, onboarding, and reviews.

Culture is not a poster it is what we do every day. Together, we create the 3C3 we are proud to build.



Manufacturing Plant

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THINK SOLUTIONS, THINK 3C3



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