



萬光祥

MASSTRON

Your Ultimate Partner in Total
Communication Solution, Globally

**EXPANDING
GLOBALLY**

COMMITTED TO DELIVER



Through the simplicity pillar of our strategy, we continue to leverage our Capabilities & Resources as one of the leading provider in total communication solutions in Fiber Optics & Network infrastructure.

Established in Singapore since 1995, Masstron has envisaged that Fiber Optics would revolutionize the way people interact, work, and play.

Today, Masstron is one of the market leaders, with a mission to provide the key benefits in total communication solutions in Fiber Optics & Network infrastructure.

Our customer-focused solutions include cable and accessories, manufacturing of jumper cables, provision of on-site termination and testing services. We support total communication solutions to Data Communication and Computer Network industry, Transport, Industrial Automation and Process Control Environment, Shipyards and Offshore, Oil & Gas industry, Military and Security Arena, OEM and Contract Manufacturers.



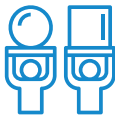
ONE-STOP NETWORKING & COMMUNICATIONS SOLUTION PROVIDER

- Highest Quality in Network and Communication products
- Local Manufacturing and Assembling Services
- Site-Termination & Services



OUR VISION

Your Ultimate Partner in Total Communication Solution, Globally



OUR COMPETENCE

We provide unsurpassed quality & pricing to our customer through continual improvement of our Quality Management Systems to achieve total customer satisfaction.



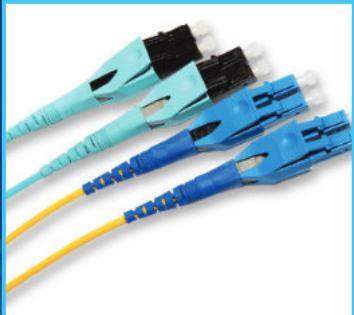
OUR MISSION

We are Committed to Deliver our Solutions with the Highest Quality and Service Excellence to all our Valued Partners through Competency, Integrity and Professionalism.

DATA CENTRE



A1 – Pretium EDGE™ MTP® Trunks



A2 – Pretium EDGE™ Reverse Polarity Uniboot Duplex Jumper



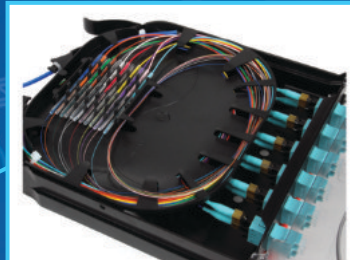
A3 – Pretium EDGE™ HD Housing



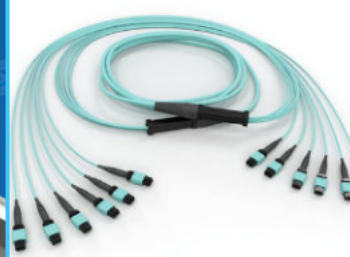
A4 – Pretium EDGE™ HD Modules



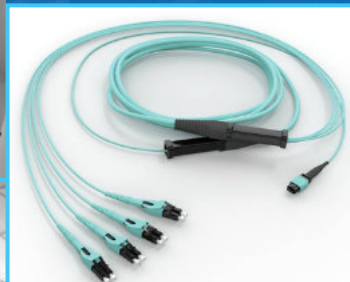
A5 – Closet Connector Housing (CCH)



A6 – CCH Pigtailed Splice Cassette



A7 – EDGE8™ MTP® Trunks



A8 – EDGE8™ Hybrid MTP®



A9 – EDGE8™ HD Housings



A10 – EDGE8™ Modules

A1 – Corning Pretium EDGE™ MTP® Trunks

Pretium EDGE™ MTP® Trunks provide Backbone of Pretium EDGE solution. Designed to interface with the Pretium EDGE or Plug & Play™ modules. Conform to TIA-568 Type-B polarity.

A2 – Corning Pretium EDGE™ Reverse Polarity Uniboot Duplex Jumper

Pretium EDGE™ Reverse Polarity Uniboot Duplex Jumper allow quick and easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibers or needing any tools.

A3 – Corning Pretium EDGE™ HD Housing

Pretium EDGE™ HD Housing is designed to mount in 19-in racks or cabinets and provide industry-leading ultra-high-density connectivity when combined with EDGE modules, panels, harnesses, trunks, and patch cords.

A4 – Corning Pretium EDGE™ HD Modules

Pretium EDGE™ HD Modules provide interface between the MTP® Connectors on the trunk and the LC duplex jumpers that will then connect directly into the electronics. LC duplex adapters feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted are specially designed to ensure that end faces of the connectors are never touched.

A5 – Corning Closet Connector Housing (CCH)

Closet Connector Housing provide interconnect or cross-connect capabilities between outside plant, riser or distribution cables and opto-electronics.

A6 – Corning CCH Pigtailed Splice Cassette

CCH Pigtailed Splice Cassette Pre-loaded and pre-routed for quick fusion splicing and easy modular management of connectorization within the housing.

A7 – Corning EDGE8™ MTP® Trunks

EDGE8™ MTP® trunks utilize an 8-fiber push/pull optical connector that is pinned on both ends of the cable. These trunks are designed to interface with the EDGE8 universal modules or adapter panels for parallel optic applications.

A8 – Corning EDGE8™ Hybrid MTP®

EDGE8™ Hybrid MTP® to LC duplex uniboot trunks combine pinned MTP connectors that connect to EDGE8 modules and duplex uniboot LC connectors that connect directly to the electronics, enabling more options for the cabling of data centers.

A9 – Corning EDGE8™ HD Housings

EDGE8™ HD housings mount in 19-in racks or cabinets and provide industry-leading ultra-high-density connectivity when combined with EDGE8 modules, panels, harnesses, trunks, and patch cords.

A10 – Corning EDGE8™ Modules

EDGE8™ modules provide an interface between 8-fiber MTP® connectors and LC duplex connectors. The internal wiring of the module based on universal polarity ensures the correct fiber polarity throughout the entire system independent of how many modules are implemented within the link.

B1 – AEM TestPro Multifunction Cable Tester

TestPro Multifunction Cable Tester is a versatile platform that was purpose-built to provide Copper, Fiber, PoE and Multi-Gigabit testing within a single solution designed to tackle assurance of infrastructure readiness across smart building technologies.

C1 – Viavi Fibre Optic Testers

VIavi test and certification tools have been designed, developed, and tuned to deliver the performance your network demands. With technology leadership, faster technician workflows and the best overall value – it's easy to be Better with VIavi.

D1 – Fibre Optic Cleaning Products

Wide range of Optical Cleaning Products are used to clean Fibre Optic Connectors to ensure a reliable and good Fibre Optic Network.



D1 – Fibre Optic Cleaning Products



C1 – Viavi Fibre Optic Testers



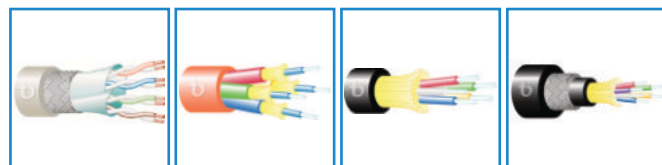
B1 – AEM TestPro Multifunction Cable Tester

MARINE & OFFSHORE



MARINE/OFFSHORE GRADE COMMUNICATION CABLE

Offer wide range of marine certified communication cables from Fiber Optic cables, Ethernet cables, BUS cables, Coaxial cables with options of Armour / Non-Armour, Flame Retardant / Fire Resistant, and Mud Resistant.



STRUCTURED CABLING SOLUTION

Supply Structured Cabling products including 19" Rack Mount Copper / Fiber Patch Panel, Copper Patch Cords, (Cat5e/Cat6/Cat6A/Cat8), Fiber Optic Patch Cords (ST/SC/LC/SMA), DIN Rail Mount Patch Panel (Copper/Fiber), Copper Wall Plate / Surface Mounting Box, Industrial grade Ethernet cable / Fiber Optic cable, etc.



INDUSTRIAL GRADE NETWORK SWITCHES / MEDIA CONVERTER

- Offer a wide range of ATEX zone 2 / GL certified Ruggedised Network Switches for mission critical application.
- Offer Industrial Firewall for protection of Automation Networks.
- Industrial HiVision software (Hirschmann) offers reliable and convenient management of Industrial Networks.



ENTERPRISE NETWORK SWITCHES

- Advanced Gigabit Layer 3 Network Switches
- Standalone Media Converter
- Indoor/Outdoor Wireless Access Point



WIRELESS / REMOTE ACCESS SOLUTIONS

- Supply Wireless Access Point and provide Remote Access solutions
- Gateway (Protocol Converter)
- Data Logger



EXPLOSION PROOF / HAZARDOUS AREA TELEPHONE

- Available in both Analog and VoIP Telephone



INDUSTRIAL AUTOMATION



FACTORY AUTOMATION

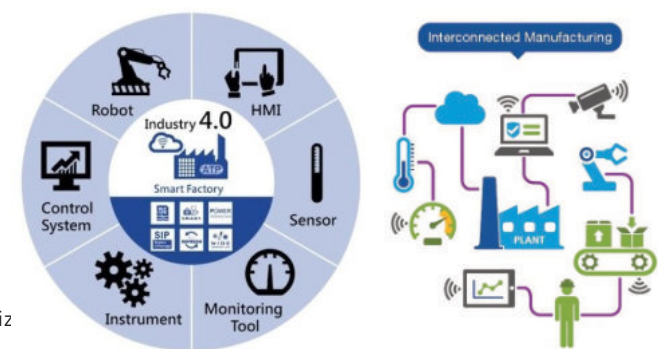
We offer comprehensive Electrical & PLC system solutions for all areas of factory automation ranging from conveyor system, robot palletiz

DIGITALISATION - INDUSTRY 4.0

Propose IIoT 4.0 smart solutions to our client to enhance their business competitiveness.

Areas include:

- M2M Solution for Production Plant monitor system and data acquisition.
- Remote Monitoring and Control via Wi-Fi and Cellular.
- SCADA system for Factory Automation, Process Automation and Building Automation Industries
- Provide IIoT solutions for devices where data can be made available in the Cloud or local PC Server.



ENCLOSURE FABRICATION

- Design/Fabrication/Supply Industrial use / Hazardous area installation (Ex area Zone 1 and 2) enclosure



FIBER OPTIC TERMINATION TOOLS & ACCESSORIES

- Corning Unicam Tool Kit set and connectors
- Corning Single Panel Housing (DIN Rail / Bracket mount)
- Corning Spider Fan-Out Kit
- Corning Environmental Distribution Center (NEMA IV enclosure)
- Corning splice cassette



TEST EQUIPMENT

- Optical Time-Domain Reflectometer (OTDR)
- Power Meter / Light Source • Visual Fault Locator
- Fiber Optic Fusion Splicer • Cable Certifier.
- Fiber Optic Microscope Inspection Probe

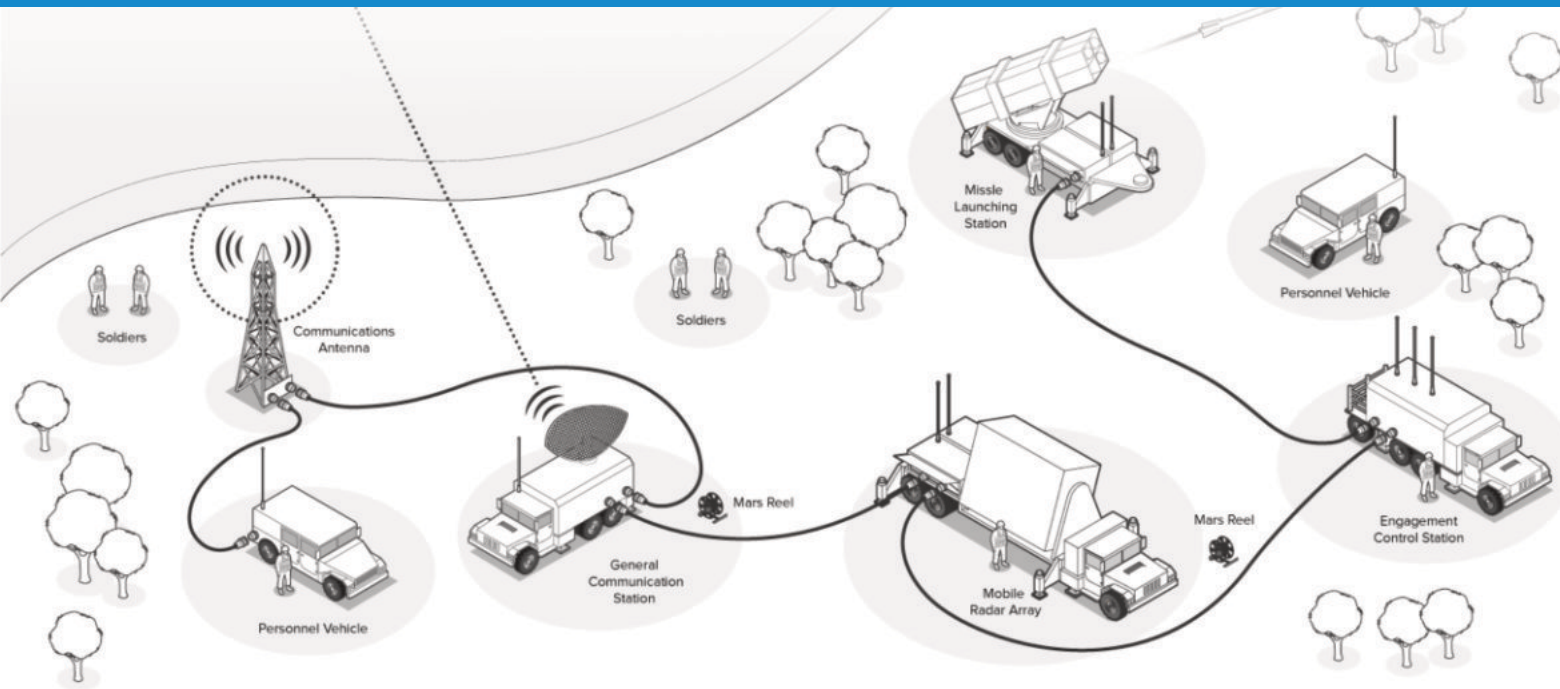


AMPHENOL CONNECTORS

- Amphenol TFOCA series Fiber Optic connector for Harsh environment application.
- Amphenol EX connectors



MILITARY



Appointed distributor of Amphenol MIL-Spec Connectors and OCC MIL-Spec Cables.

What we offer include:

- Build and Repair of Custom Cable Assemblies
- Build Custom MIL-Spec Patch Panels
- Supply of Manpower for installation of equipment & cables
- Networking Solutions with Custom Enclosure.



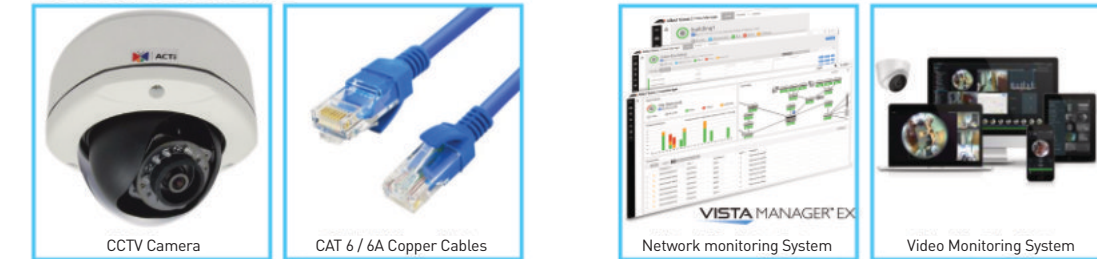
Complete Surveillance Systems & Solutions

We aim to deliver a tailored solution to your needs. With 20 plus years in the industry, we support you as a solutions provider in Singapore and regionally in the following areas:

- Networking Equipment
- Indoor / outdoor CCTV Systems
- Video Management System
- Custom Turnkey enclosures
- Field Testing and termination

Our services & solutions has been deployed through various government agencies, ranging from small office setups to large scale military locations.

INDOOR SOLUTIONS



OUTDOOR SOLUTIONS

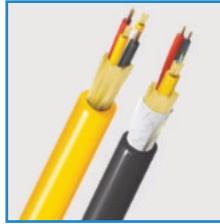


TESTING & TERMINATION



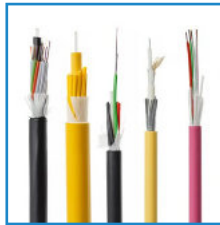
OIL & GAS

SOLUTION FOR PLANT NETWORK (ONSHORE)



Indoor Ethernet Cable (Cat 5/6/7) Shielded / Unshielded

- Available in (CAT5 / 6 / 7)
- Combination of Foil or Braided shielding
- Multiple jacketing available (LSZH / PE / PVC)



Indoor Fiber Optic

- Singlemode or Multimode (OM1 / 2 / 3 / 4) available
- LSZH / Fire Retardant (IEC 60332)
- Ruggedized patch cord (Double jacketing)
- Customizable connector type and length



Patch Panel

- Rackmount / Wallmount / Dinrail mount option
- Different adaptors variant available (LC / ST / SC / FC, Etc.)
- High port density (Up to 144 ports and beyond)



Industrial Networking

- Hirschmann Greyhound / Mach 1000 series switches suitable for mission critical control panel
- High industrial connectivity (Up to 10 Gigabit)
- Highly configurable
- L2 / L3 Routing capability
- Highly reliable Redundancy protocol (MRP / HSR / PRP)
- Enhance Cyber security feature
- Easy to use Network Management System (Hirschmann Division)



Fiber Optic Cleaning

- Wide range of Optical Cleaning Products are used to clean Fibre Optic Connectors to ensure a reliable and good Fibre Optic Network

SOLUTION FOR OFFSHORE NETWORK (OFFSHORE)



Outdoor Ethernet Cable

- (CAT5 / 6 / 7) Shielded / Unshielded option available
- Corrugated Steel Tape Armouring for added protection from elements
- Fire resistance (IEC 60331)
- Specialties cable (Marine Graded, Anti-corrosive)



Outdoor Harsh Environment Fiber Optic

- Singlemode or Multimode (OM1 / 2 / 3 / 4) available
- Different armouring option with high crush resistance suitable for Direct Burial
- Fire resistance graded for critical infrastructure connectivity (IEC 60331)
- Specialties cable (Marine Graded, Anti-corrosive)



Outdoor Enclosure

- Weather proof (IP67 / 68 rated) EX
- Zone Approve option Wallmount / polemount
- Different Materials (PVC, SS316)



Industrial Networking

- Hirschmann RSP / RS20 switches
- Highly configurable
- L2 / L3 capability
- Redundancy (MRP / HSR / PRP)
- Certification (EX Rated, DNV, IEC 61850, etc.)



Industrial Wireless Connectivity

- Prosoft industrial AP
- 802.11n 900Mhz, 2.4 and 5Ghz
- Weatherproof IP67
- Fast 10ms Roaming
- Fast Channel Bonding



Professional value added Services

- Network consultation services and design
- Wireless Feasibility studies and design
- Customisation panel design and implementation
- On site troubleshooting and termination services
- Proof of concept for network scalability and reliability studies
- Seminar and Training

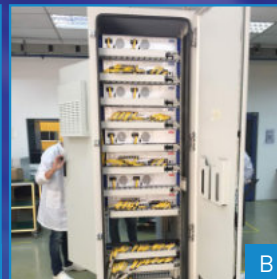
TRANSPORTATION



A1



A2



B



C



D1



D2



D3



D4



D5



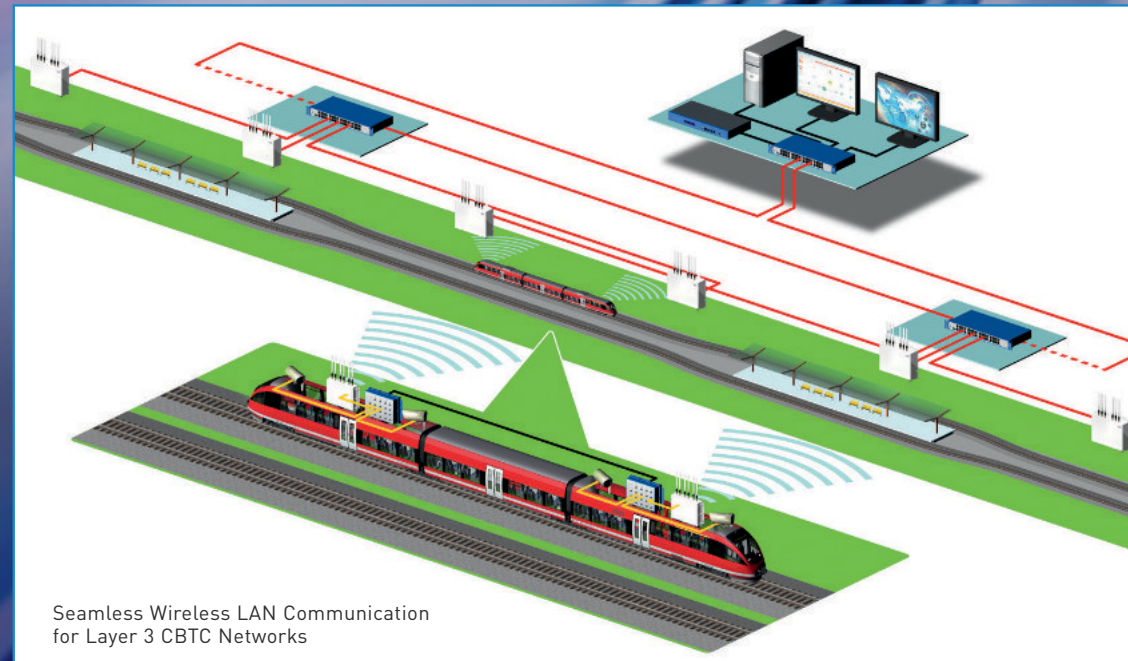
D6



D7



E



Seamless Wireless LAN Communication
for Layer 3 CBTC Networks

A – Fiber Optics & Structured Cabling

- ✓ Single mode or Multimode
- ✓ Armored or Non Armored Design
- ✓ Flame retardant and Fire resistant Standard
- ✓ Ethernet Cables available in Cat 5 / Cat 6 / Cat 6A / Cat 7 (S/FTP or U/FTP or U/UTP)
- ✓ Overall jacketed with industrial grade compound option

Area of Application

- In Between Wagon Communication
- Passenger Information System
- Train To Ground Communication
- Trackside Communication
- Control Room

B – Rack Assembly

- ✓ Supply and install equipment into 42U Rack
- ✓ EMC/Non EMC, IP Rated, Customized Racks
- ✓ IPCA-620 (Cable Management & Workmanship) ATS/DCS,
- ✓ VOB, Network Switch Rack, Platform Rack

Area of Application

- Signaling and Communication Racks

C – Trackside Enclosure Assembly

- ✓ Wall Mount Enclosure Stainless Steel Customized Enclosures & Industrial
- ✓ Modular Din Rail Patch Panel
- ✓ Design and built according to site and application requirements
- ✓ IP65 rating/EN50121-4 trackside certified

Area of Application

- Trackside Communication

D – Rugged Wireless / Network Solution & Network Management Software

D1 Hirschmann Dragon PTN (MPLS-TP)

- ✓ MPLS-TP technology delivers dedicated bandwidth for different services and 50ms protection switching
- ✓ HiProvision software for easy configuration and management of large transmission networks
- ✓ Industrial HiVision integration for backbone and access network
- ✓ Variety of interface modules and port types to ensure flexibility and seamless integration of legacy systems
- ✓ Resilient against harsh conditions with operating temperatures varying from -30°C to +65°C Redundant
- ✓ central switching modules and power supplies guarantee high network availability

Area of Application

- Railway BTN

D2 Hirschmann Clear Space Wireless – OpenBAT Family

- ✓ Rugged wireless LAN access points and/or clients for use in industrial environments
- ✓ Comprise BAT-R (IP20) and BAT-F (IP67) series
- ✓ Supports the IEEE 802.11n in transmission standard

Area of Application

- In Between Wagon Communication
- Train To Ground Communication
- Trackside Communication

D3 Hirschmann IP67/65/54 Industrial Managed/Unmanaged/PoE Ethernet Switch – Octopus Family

- ✓ Uplink ports with bypass relays allow reliable and secure connection of terminals to the backbone of trains
- ✓ IEC 61375-34 draft standard for maximum reliability of data communication in trains
- ✓ Rail-specific EMC and fire safety approvals ensure optimum operational reliability
- ✓ Redundancy based on RSTP, MRP and HIPER Ring
- ✓ Vibration-proof M12 connection technology

Area of Application

- In Between Wagon Communication
- Passenger Information System

D4 Hirschmann – MACH 4000 / MACH 1000 / Grey Hound Family

- ✓ Flexible, customizable and interchangeable media modules
- ✓ Designed to withstand high temperatures, high vibration and electrostatic discharge Redundancy
- ✓ protocols, diagnostic features and comprehensive security mechanisms

Area of Application

- Passenger Information System
- Train To Ground Communication
- Control Room

D5 Hirschmann Rail Switch MSP/RSP

- ✓ Layer 3 capability brings routing to the shop floor and enables communication between physically separated networks
- ✓ Modular design with high number of Gigabit port options allows flexible and cost-effective solutions
- ✓ Power over Ethernet Plus (PoE+) support

D6 BobCat Family

- ✓ Provide advanced security to help manufacturers build next generation networks
- ✓ For applications in need of Maximum power without device limitations
- ✓ Compact switches provide Power over Ethernet (PoE/PoE+)
- ✓ Up to 240 W and real-time communication through time-sensitive networking (TSN) technology on all ports

D7 Hirschmann BAT Wireless LAN Controller

- ✓ Designed for use in switch cabinets and can be used to centrally configure and manage 25 to 1000 WLAN access points respectively.
- ✓ Available in WLC 25, 50, 100, 200, 500 and 1000

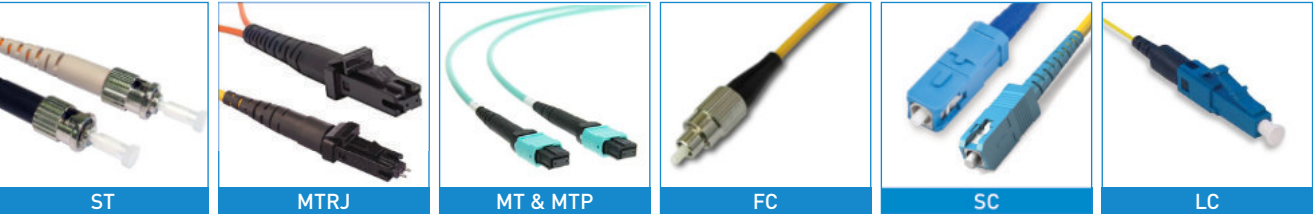
E – Hirschmann Industrial HiVision

- ✓ Topology Discovery
- ✓ SNMP Trap Support
- ✓ Auto Discovery
- ✓ Configuration & extended diagnosis provided via interfaces, incl. HiVision 8.0, Web browser & TELNET
- ✓ Multi Config feature allows many switches to be configured at the same time with the same parameters

LOCAL MANUFACTURING & ASSEMBLY SERVICES

With state of art testing equipment, precision termination process and advanced polishing methods, our local manufacturing of pigtails and jumper cables exceed the industry standards. We also provide harsh environment connectors for a variety of applications.

CONNECTORS



SINGLEMODE & MULTIMODE PATCH CORDS & PIGTAILS

Masstron provides the broadest choice of patchcords to the industry including ST, FC, SC, LC, MTRJ, MTP, MPO and with Ultra-Polished (UPC), Angle-Polished (APC) or other polish requirement. With our state-of-art testing equipment, refined polishing machine, advanced polishing procedure and a group of experienced technicians, we make reliable and top quality patchcords at an affordable price. Every patchcord supplied by Masstron is guaranteed to be well



OPTICAL ADHESIVES

Norland UV Curing Adhesives

Norland Optical and Electronic Adhesives are designed for fast, precision bonding and will simplify processes that require critical alignment or exact positioning.

These one part adhesives will set in seconds when exposed to ultraviolet light and can provide excellent light transmission over a wide spectral range. Norland Optical Glues are designed for bonding where low strain, optical clarity or low outgassing are required in military, aerospace, fiber optics or commercial optics.



NTT-AT Optical Adhesive

NTT-AT provides detailed solutions that meet customers' needs for various types of optical adhesive. For the commercialization of high reliability optical parts, an adhesive is required which has excellent durability, in addition to application-specific optical characteristics and various other features. To meet requirements of individual applications, NTT-AT supplies various types of adhesive, such as those with a specific refractive index, a capability of fixing with high precision, high heat resistance, high elasticity and low moisture permeation. In addition, NTT-AT can customize its adhesives to suit customers' needs.

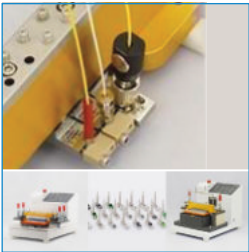


FIBER OPTIC MANUFACTURING



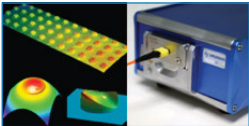
Corning SMF 28e Photonic Bare Fiber

Corning SMF-28e (Photonic) fiber product offers fiber attributes specifically customized for optical connectorization and components application allowing OEMs to reduce manufacturing cost, standardize processes and improve performance.



NTT-AT Optical Connector Polisher ATP-3200

Achieving both high polishing performance and low running cost. NTT-AT ATP-3200 can handle not only standard optical connectors, but also prototype polishing of newly developed products up to various kinds of small volume to mass volume production. While reducing capital investment costs and process development investment, the ATP-3200 realizes the latest polishing specifications and high efficiency in terms of polishing costs. In addition to providing high polishing performance, this product can reduce running costs through its user-friendly design, which allows the easy attachment / detachment of ferrules and connectors, and through a reduction in maintenance work needed to keep polishing performance. ATP- 3200, can of course polish small amounts, but since it is possible to mount 2 jigs, by installing the optional part, it can simultaneously polish up to 48 MPO connector terminals or as many as 96 LC connector terminals.



Dimension Technology Interferometer

Dimension Technology MT Pro, a new Single/Multi Channel Integrated Interferometer. MT Pro is the upgraded MPO interferometer with image resolution up to 1.5um. Equipped with functions like auto focus, PASS/FAIL analysis and auto calibration on reference mirror. MT Pro has optimized repeatability and fast testing time: 0.5 second for single fibre measurement and 5 second for MT12 measurement. With field of view as 4.3mm*3.3mm, MT Pro is capable for MT16 and up to MT72 measurement. In the special designed fixture platform 0° and 8° fixtures can be quickly switched without extra tools or fixtures needed. MT Pro is calibrated with 0.1nm laser interferometer and the high accuracy of measurement is committed. The ferrule to be tested is mounted with frame. Modularized software interface makes the measurement intuitive and user-friendly.



Viavi Multiple Application Platform (MAP-200)

Optimized for test applications in lab and manufacturing environments ranging from insertion loss testing to dispersion penalty testing. Available in three mainframe configurations for optical adaptability within test sets. Hot-swappable modules.



Dimension Technology Digital BenchTop Fiber Inspection Scope

AUTOCHECK Integrated Fiber Endface Inspector

AutoCheck is the first intelligent integrated fiber end-face inspector developed by Dimension Technology. With the advantages of Dimension image analysis software and high performance embedded system, AutoCheck can identify the tiny defects accurately, conveniently and simply. The fiber end-face inspection complies with IEC standard and customized criteria.



Viavi P5000i Automated Fiber Inspection & Analysis Probe

Inspect & certify fiber end face quality at the push of a button. Eliminate confusion with fast, easy and objective testing. Connects via USB to multiple devices including Viavi tools, Laptops/PCs, tables and mobile.



Dimension Technology BenchTop Fiber Optics End Face Cleaning System

OFFSOON MARK IV Fiber End-face Cleaner

OFFSOON MARK IV integrated fiber end-face cleaner is the latest fiber cleaner developed by Dimension Technology. The remarkable improvement is the high efficiency to clean female ceramic connector. OFFSOON MARK IV cleaner ensures the low Insertion Loss and high Reflection Loss for fiber coupling. OFFSOON MARK IV is capable to Automation development It can be easily integrated to Auto Feeding, Auto Cleaning, Auto Inspection systems for high efficiency and low work loading.



NTT-AT - Fiber Optics Cleaners

The pioneer in optical connector cleaners, brings to you the highest quality cleaning tools. The cause of many troubles in optical communication equipment is contamination on the end face of optical connectors. NTT Advanced Technology's optical connector cleaners use fiber developed specifically for optical connectors, so even the smallest contaminants not visible to the naked eye are removed.

Engineered with both highly portable compact designs and ease of operation in mind, and since no cleaning fluids are necessary there are no special needs for the operating environment either. We have prepared a full line-up of cleaners compatible with every type of optical connector. Please put our technology to work for you.

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Amphenol®

CORNING

HIRSCHMANN
A BELDEN BRAND

NTTAT

Telegärtner
KARL GÄRTNER GMBH

DIMENSION
TECHNOLOGY

TEL DOR
Cables & Systems Ltd.

OCC®
OPTICAL CABLE CORPORATION

ProSoft®
TECHNOLOGY



Allied Telesis

Fiber Fox

NORLAND PRODUCTS INC.

FiTeK

BELDEN

VIavi

RIPLEY®

MMC
MultimediaConnect