exatronic

Product Catalogue:

Data Center Interconnect Solutions

Hexatronic

Hexatronic enables non-stop connectivity for communities worldwide. We partner with customers across five continents – from telecom operators to network owners – offering leading-edge fiber technology and solutions for any and all conditions.

Together, the companies in Hexatronic Group develop products and world-class solutions that create development opportunities for people across the world.

Hexatronic offers a complete range of passive fiber optic infrastructure. We design, develop, manufacture, and market our own products, solutions, and services to work together optimally. Also, we represent leading worldwide manufacturers of specialized tools and equipment.

Owning our complete production chain gives us great flexibility and enables us to respond quickly to unique customer requests. With innovation, vast technical knowledge, a high level of service, and complete commitments, we work every day to improve our offering.

World class innovative design and development

We always strive to be a step ahead of the market needs, and to constantly enhance our products' properties. That's why we continuously develop products, solutions, processes, and methods to improve network performance for the customers and reduce the environmental footprint.

Fully flexible – and confident

With our total control over the production chain, we safeguard capacity – and have the flexibility to customize production for unique customer requests.

We're so confident with our well-considered product range – with its high quality and maximum compatibility – that we offer extended warranties.

Adding the keys to maximize your outcome

There is a massive shortage of people who know how to optimally design, project manage and install fiber optic networks.

That's why we offer customized training programs, field support, design and project management services.

hexatronic.com

Data Center Interconnect Solutions

Hexatronic's Data Center Interconnect Solutions encompasses a broad offering of products designed for connections in, around and between data-center and transport networks. Our products are designed to meet the demands of Australia's harsh environments and built to last.

All of our products can be made to order and provide benefits to the network owner including:

Innovation

- Our innovative designs including pre-populated conduit, termite-protected microduct and innovative accessories and cabling provide benefits including lower installation cost and simplified deployment

Customisation

- Hexatronic operates multiple duct extrusion plants in the region and worldwide, bringing a level of flexibility to our product range. Whether you require pre-populated ducts, specific colours, special printing or a specific seal for your network, Hexatronic works with our customers to provide a resolution.

Complete solutions

To simplify design and planning, the Hextronic's range of is divided into four main areas:

- Conventional duct and conduit
- Microduct and microduct assemblies
- Duct accessories
- Air blown fiber

Conventional Duct and Conduit

Conventional duct and sub-duct is employed accross vast areas of Australia and comes in a range of standard trade sizes. Hexatronic's range includes sizes from as little as 20mm to 100mm or more.

Designed to withstand the harsh conditionals of Austrlian soil, conventional duct has been employed to protect optical and other communications networks for decades. Our innovative range includes coloured sub-ducts, pre-populated ducts and standard PVC and HDPE conduit.

Microduct and Microduct Assemblies

Air-blown technology gives the fastest and most hassle-free underground installation at typically up to 30% lower total installation cost. Microducts facilitate the blowing of conventional cables, Hexatronic's range of air blown fiber or data-centre critical hollow core cable.

Duct Accessories

Hexatronic supplies a range of critical accessories for duct networks including seals, joiners and end stops. These components ensure duct networks withstand continued exposure to rain, dust, dirt and wildlife.

Air Blown Fiber

The **Hexatronic Viper** cable range for feeder and distribution networks operates within the Hexatronic microduct system. These cables are available with up to as many as 864 fibers and generally form the feeder and distribution segments of a carrier network or as data-center cabling and interconnects. In transport networks, the high fiber counts available and impressive duct utilisation allows for higher densities and more available bandwidth for carriers and data centres. With impressive installation speed and distance, Hexatronic Viper cables increase speed of deployment and reduce total cost of ownership to the network owner.

The **Hexatronic Stingray** air blown fiber units are the perfect option for short fiber drops in fiber networks. Owing to their unique design, compact size and light weight, Stingray can be blown with simple tooling in a fast, low-cost and efficient manner. Stingray holds up in an extremely wide temperature range and is suitable for the harshest environments. It's extremely minimal size cuts down on logistics and handling, ensuring quicker deployment and low cost to the network owner.

Contact Hexatronic for more information on what product or solution best fits your network requirement.

Conventional Duct

Conventional HDPE Duct and Inner Duct

Conventional HDPE duct and inner duct, often referred to as bore pipe or poly pipe, is utilised in ground or within conduit for the purposes of protecting underground communications cabling. HDPE duct is continuous, flexible and available in extended lengths. Being continuous and flexible, HDPE pipe can be routed around obstacles and through difficult terrain without joins and allows quick and easy cable hauling.

HDPE Continuous Duct

HDPE Duct 32 - 63mm SDR

- 32 - 63mm OD
- Higher SDR variants suitable for use as an inner-duct in existing conduit
- Lower SDR variants suitable for direct bury applications
- A wide variety of colours
- AS/NZS 4130 compliant PE100 construction
- Excellent mechanical performance
- UV stabilised materials
- Available with pulling tape or rope pre-installed

Applications

HDPE (high-density polyethylene) continuous duct is utilised in communications networks to provide protection and pathways for cables, primarily fiber optic. Used in both inside plant and outside plant applications, the durability, flexibility, corrosion resistance and extended length make it the preferred material for these applications. Multiple wall thickness options provide options offering a balance between robustness and flexibility for applications including direct bury and use as a sub-duct.

Design

The ducts are constructed from PE100 grade HDPE to AS/NZS 4130 standards. Each duct is provided on a steel reel in continuous lengths in a variety of colours. Each duct is printed every metre using an indelible inkjet method.

Each duct can be supplied with a pull tape or rope pre-installed for quicker on site installation.

Colour

12 Standard Colours

Article number	Article name	Standard duct ratio [SDR]	Outer diameter [mm]	Inner diameter [mm]	Minimum wall thickness [mm]
TCD901032/17xx	32mm SDR 17 HDPE Conduit	17	32	28	1.9
TCD901032/13xx	32mm SDR 13.5 HDPE Conduit	13.5	32	27	2.4
TCD901032/11xx	32mm SDR 11 HDPE Conduit	11	32	26	2.9
TCD901032/9xx	32mm SDR 9 HDPE Conduit	9	32	24	3.6
TCD901040/17xx	40mm SDR 17 HDPE Conduit	17	40	35	2.4
TCD901040/13xx	40mm SDR 13.5 HDPE Conduit	13.5	40	34	3.0
TCD901040/11xx	40mm SDR 11 HDPE Conduit	11	40	32	3.7
TCD901040/9xx	40mm SDR 9 HDPE Conduit	9	40	31	4.5
TCD901050/17xx	50mm SDR 17 HDPE Conduit	17	50	44	3.0
TCD901050/13xx	50mm SDR 13.5 HDPE Conduit	13.5	50	42	3.7
TCD901050/11xx	50mm SDR 11 HDPE Conduit	11	50	40	4.6
TCD901050/19xx	50mm SDR 9 HDPE Conduit	9	50	38	5.6
TCD901063/17xx	63mm SDR 17 HDPE Conduit	17	63	55	3.8
TCD901063/13xx	63mm SDR 13.5 HDPE Conduit	13.5	63	53	4.7
TCD901063/11xx	63mm SDR 11 HDPE Conduit	11	63	51	5.8
TCD901063/9xx	63mm SDR 9 HDPE Conduit	9	63	48	7.1

3N1™ Boreable Conduit

3N1™ saves time and money by allowing contractors to bore a complete package with 3 or 4 sub-ducts pre-installed inside of a case pipe. Sub-ducts do not have to be pulled through after the bore, allowing you to blow or pull fiber cables as soon as the bore is complete. 3N1™ allows for confidence installing longer runs as sub-ducts won't get stuck or twisted during field installation.

3N1™ Boreable Conduit

HDPE Factory Sub-ducted Conduit

Features

- 3 or 4 Sub-duct pre-installed
- Suitable for installation via drill, trench or plow
- Robust HDPE shell and inner-ducts
- Lengths can be joined via sealed compression fitting

Application

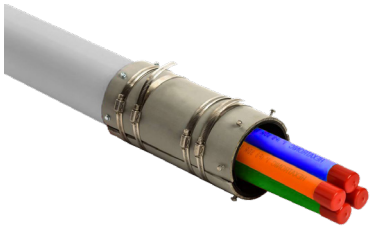
3N1™ Boreable Conduit is suitable for applications requiring robust conduit with sub-duct in place such as telecommunications carrier networks and other underground communications networks.

Design

Each conduit is constructed of robust white HDPE 100mm conduit with pre-installed 32 or 40mm HDPE sub-ducts. Each sub-duct is colour coded in TIA colours for easy pathway recognition.

Colour

White with TIA Sub-ducts



		Casing				Sub-duct			
Article number	Article name	SDR	Outer diamater [mm]	Inner diamater [mm]	Min. wall thickness [mm]	SDR	Outer diameter [mm]	Inner diameter [mm]	Min. wall thickness [mm]
BDS413WH-3N1	HDPE 100mm + 3x 40mm	13.6	121.1	102.3	8.9	13.5	42.2	35.4	3.1
BDS413WH-4N1	HDPE 100mm + 4x 32mm	13.6	121.1	102.3	8.9	13.5	33.4	27.9	2.5
BDI414WH-3N1	HDPE 100mm + 3x 32mm	13.5	114.3	96.4	8.5	13.5	33.4	27.9	2.5

Conventional Conduit

Conventional communications conduit is used primarily to protect telecommunications, fiber optic, and data cabling in residential, commercial, and industrial settings. It is typically manufactured from white PVC-U (unplasticized polyvinyl chloride) in fixed length rigid sticks or HDPE (high-density polyethylene) in continous rolls. Conventional conduit is non-conductive, lightweight, and UV-stabilised for outdoor use.

Conventional Conduit

PVC and HDPE Conventional Conduit

Features

- High mechanical strength
- Direct buried installation
- Above ground installation (PVC only)
- UV stabilised materials
- Bell-mouth design (PVC only)

Application

Telecommunications conduit is designed for the installation and protection of communications cable including fiber and copper, and the installation of sub-duct or microduct pathways.

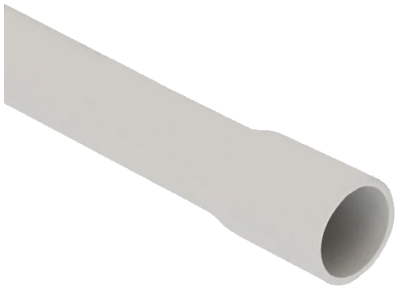
PVC conduit can be installed in open trench or above ground. Continuous HDPE pipe is designed for pulling through bores, though can also be installed by open trench methods.

Design

These conduits are characterised by robust, extruded PVC or HDPE shell in a white Australian Standards compliant telecommunications colouring.

Colour

White



Article number	Article name	Trade Size[mm]	Length
AUS020	PVC Communications Conduit P20 4m	20	4
AUS025	PVC Communications Conduit P25 4m	25	4
AUS032	PVC Communications Conduit P32 4m	32	4
AUS040	PVC Communications Conduit P40 4m	40	4
AUS050	PVC Communications Conduit P50 4m	50	4
AUS080	PVC Communications Conduit P80 6m	80	6
AUS100	PVC Communications Conduit P100 6m	100	6
BOREW063140	HDPE Communications Conduit SDR 13.3 P50 140m	50	140
BOREW063450	HDPE Communications Conduit SDR 13.3 P50 450m	50	450
BOREW110100	HDPE Communications Conduit SDR 13.3 P100 100	100	100
BOREW125100	HDPE Communications Conduit SDR 13.3 P125 100	125	100

Microducts and Assemblies

Thick Wall Microducts

Typical dimensions for thick wall duct (TWD) are from 7 mm up to 25 mm with inner diameters from 3.5 mm to 20 mm. Microducts are suitable for the installation of air blown cable with an outside diameter up to 80% of the inside diameter of the microduct. Microducts are available as primary duct (single way) or in an assembly.

To provide a hassle-free installation experience, all ducts are made of low memory materials that minimizes the curly duct effect when rolling out ducts from a drum. During manufacturing, continuous monitoring of dimensions and tolerances are done by x-ray. All ducts are tested with an inner clearance test before shipping to ensure performance in the field.

Primary Thick Wall Duct

TWD Primary Tube TIA Coloured

Features

- For direct burial or hauling through duct
- Low friction inner surface
- Longitudinal grooves for maximum installation lengths (excludes 7mm)
- Nylon jacketed for termite protection (7 and 14mm)
- 12 TIA colours available

Applications

The thick walled microduct are designed with an inner low friction surface that enables installation of micro cables or nano cables.

The thick wall of the microducts allow for installation directly into the ground or through existing conduit without the need for additional protection. The nylon layer applied to each 7 and 14mm OD microduct makes these microducts suited to termite prone areas.

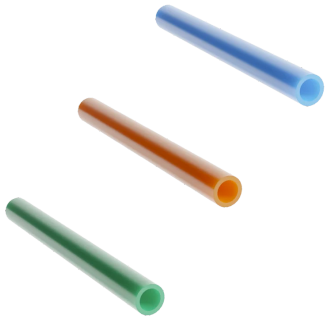
Design

Each microduct is constructed from HDPE material with a low friction inner. 7 and 14mm microducts provide an additional termite resistant Nylon layer for use with unprotected cables.

Microducts are optimized for installation of micro cables and nano cables. The microducts have a low-friction inner surface. Excluding 7/3.5mm, microducts are supplied with longitudinal grooves for best blowing performance.

Colour

TIA Colours



Article number	Article name	Max. Fiber Count*	Bend rad. [mm]	Tensile force [N]	Crush [N/ 100mm]	Impact [J]	Dimensions Ø [mm]	Weight [kg/km]
MPB30317/xx1	Microduct 7/3.5 TWD HDPE PA	24	70	250	4000	4	7/3.5	29
MPB30320/xx1	Microduct 14/10 TWD HDPE PA	288	140	700	2000	8	14/10	72
MPB30297/xx1	Microduct 16/12 TWD HDPE	432	160	790	1500	11	16/12	84
MPB30250xx1	Microduct 18/14 TWD HDPE	576	180	905	1000	11	18/14	96
MPB30257/xx1	Microduct 20/16 TWD HDPE	864	200	1000	1000	11	20/16	108
MPB30221/xx1	Microduct 25/20 TWD HDPE	864	250	1600	2300	16	25/20	170

* Based on Hexatronic Viper Slim cable
xx: BU: Blue, OG: Orange, GN: Green, BN: Brown, GY: Grey, WH: White, RD: Red, BK: Black, YE: Yellow, VT: Violet, PK: Pink, TQ: Aqua

Thick Wall Duct Assemblies Large Format

TWD 2-7 way TIA598

Features

- For direct burial or installation into existing conduit
- 2, 4 or 7 bundled ducts
- 16/12 mm microducts
- Low friction inner surface
- Longitudinal grooves for maximum installation lengths
- Optional tracer wire under jacket

Application

The thick walled microduct are designed with an inner low friction surface that enables installation of micro cables or nano cables. The thick wall of the microducts allow for installation directly into the ground without the need for additional protection. Where optioned, the integrated tracer wire saves time and installation cost since an additional wire for tracing is not required.

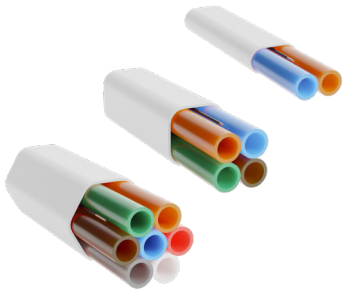
Design

The duct assemblies are available in several configurations from 2 to 7 microducts.

These microducts are optimized for installation of micro cables and nano cables. The microducts have a low-friction innner surface with longitudinal grooves for best blowing performance.

Colour

White



Article number	Article name	Layout	Tensile force [N]	Crush [N/ 100mm]	Bend rad. [mm]	Dimensions [mm]	Weight [kg/km]
5/MPB30324/2CT	Microduct 2×14/10 TWD TIA PA	2×14/10	1800	9500	250	30 × 16	193
5/MPB30324/4CT	Microduct 4×14/10 TWD TIA PA	4×14/10	3300	3000	400	30 × 30	354
5/MPB30324/7CT	Microduct 7×14/10 TWD TIA PA	7×14/10	5500	4500	550	44 × 39	587
5/MPB30297/2CT	Microduct 2×16/12 TWD TIA	2×16/12	2400		250	34 × 18	250
5/MPB30297/4CT	Microduct 4×16/12 TWD TIA	4×16/12	4200		550	34 × 34	414
5/MPB30297/7CT	Microduct 7×16/12 TWD TIA	7×16/12	7000		650	50 × 46	728
5/MPB30250/2CT	Microduct 2×18/14 TWD TIA	2×18/14	2700		300	38 × 20	283
5/MPB30250/4CT	Microduct 4×18/14 TWD TIA	4x 18/14	5000		600	38 × 38	508
5/MPB30250/7CT	Microduct 7×18/14 TWD TIA	7x 18/14	8000		800	56 × 51	620
5/MPB30257/2CT	Microduct 2×20/16 TWD TIA	2x 20/16	3000		440	42 × 22	316
5/MPB30257/4CT	Microduct 4×20/16 TWD TIA	4x 20/16	5300		840	42 × 42	568
5/MPB30257/7CT	Microduct 7×20/16 TWD TIA	7x 20/16	8000		1000	62 × 57	930
5/MPB30324/2CU	Microduct 2×14/10 TWD TIA PA Tracer	2×14/10	1800	9500	250	30 × 16	193
5/MPB30324/4CU	Microduct 4×14/10 TWD TIA PA Tracer	4×14/10	3300	3000	400	30 × 30	354
5/MPB30324/7CU	Microduct 7×14/10 TWD TIA PA Tracer	7×14/10	5500	4500	550	44 × 39	587
5/MPB30297/2CU	Microduct 2×16/12 TWD TIA Tracer	2×16/12	2400		250	34 × 18	250
5/MPB30297/4CU	Microduct 4×16/12 TWD TIA Tracer	4×16/12	4200		550	34 × 34	414
5/MPB30297/7CU	Microduct 7×16/12 TWD TIA Tracer	7×16/12	7000		650	50 × 46	728
5/MPB30250/2CU	Microduct 2×18/14 TWD TIA Tracer	2×18/14	2700		300	38 × 20	283
5/MPB30250/4CU	Microduct 4×18/14 TWD TIA Tracer	4x 18/14	5000		600	38 × 38	508
5/MPB30250/7CU	Microduct 7×18/14 TWD TIA Tracer	7x 18/14	8000		800	56 × 51	620
5/MPB30257/2CU	Microduct 2×20/16 TWD TIA Tracer	2x 20/16	3000		440	42 × 22	316
5/MPB30257/4CU	Microduct 4×20/16 TWD TIA Tracer	4x 20/16	5300		840	42 × 42	568
5/MPB30257/7CU	Microduct 7×20/16 TWD TIA Tracer	7x 20/16	8000		1000	62 × 57	930

Thick Wall Duct Assemblies Small Format

TWD 2-7 way TIA598

Features

- For direct burial
- 1 to 25 bundled ducts
- 7/3.5 mm and 14/10 mm microducts
- Low friction inner surface
- Longitudinal grooves for maximum installation lengths in 14/10 mm ducts
- Nylon jacketed microducts for termite protection
- Optional integrated tracer wire

Application

The tight protected duct assemblies consist of a number of microducts with an inner low friction, antistatic surface that enables installation of micro cables, nano cables or air blown fibers. The thick inner wall of the microducts allow for installation directly into the ground without the need for additional protection. The nylon layer applied to each microduct makes these assemblies suited to termite prone areas even where the outer jacket is removed. Where optioned, the integrated tracer wire saves time and installation cost since an additional wire for tracing is not required.

Design

The duct assemblies are available in several configurations from 1 to 25 microducts.

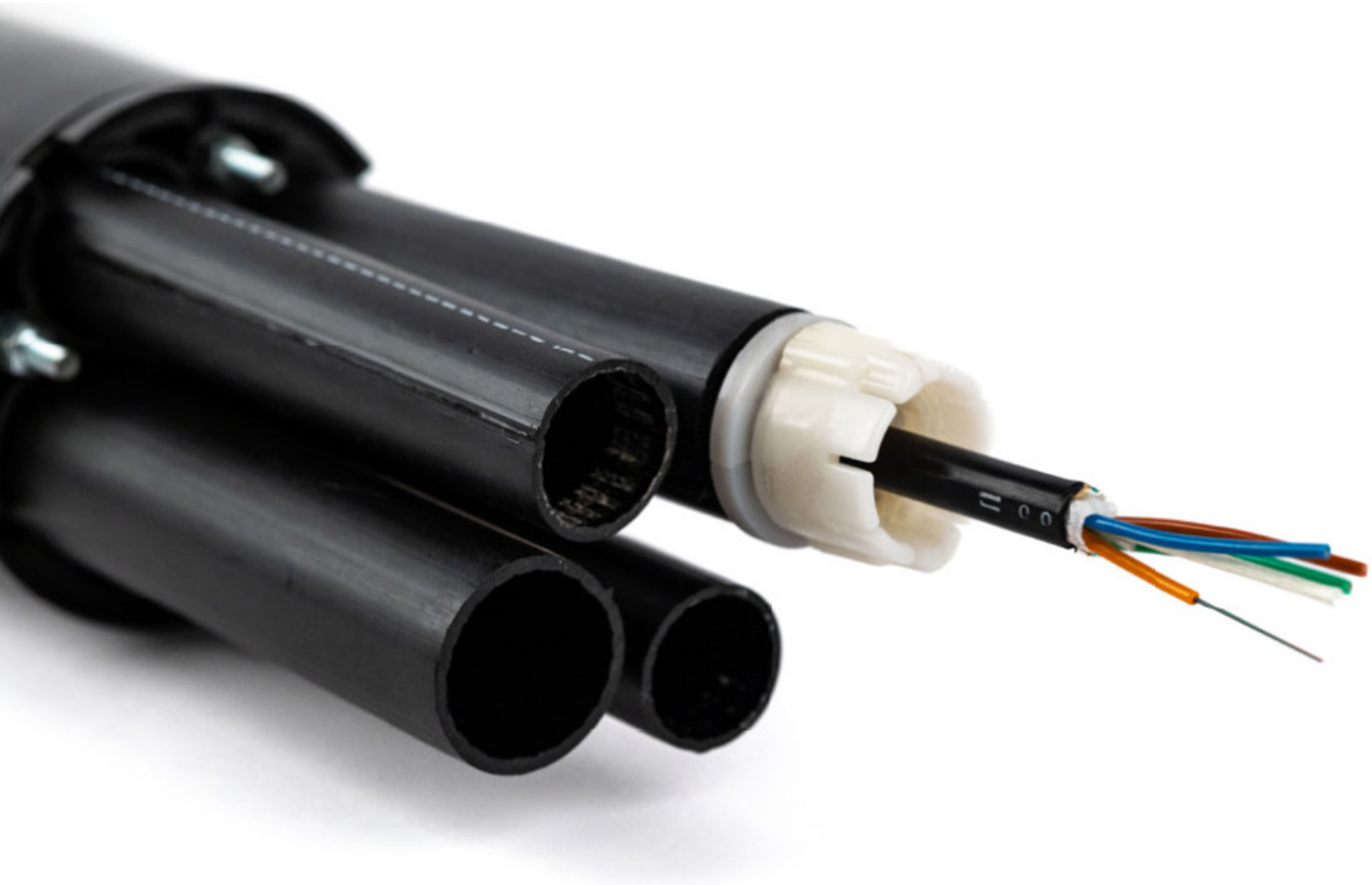
Both the 14/10 mm and 7/3.5 mm microducts are suitable for installation of air blown fibers or nano cables and the 14/10 mm microduct can also be used for blowing micro cables. The microducts have a low-friction inner surface for best blowing performance.

Colour

White

Article number	Article name	Layout	Tensile force [N]	Crush [N/ 100mm]	Bend rad. [mm]	Dims. [mm]	Weight [kg/km]
5/MPB30322/1CT	Microduct 1×7/3.5 TWD TIA PA	1×7/3.5	500	2500	93	9.2	54
5/MPB30322/4CT	Microduct 4×7/3.5 TWD TIA PA	4×7/3.5	1100	2500	210	15 × 15	175
5/MPB30322/7CT	Microduct 7×7/3.5 TWD TIA PA	7×7/3.5	2300	2500	220	22	250
5/MPB30322/12CT	Microduct 12×7/3.5 TWD TIA PA	12×7/3.5	3600	2500	300	30	455
5/MPB30322/19CT	Microduct 19×7/3.5 TWD TIA PA	19×7/3.5	5600	2500	360	36	700
5/MPB30322/24CT	Microduct 24×7/3.5 TWD TIA PA	24×7/3.5	7000	2500	440	44 × 33	798
5/MPB30326/6CT	Microduct 3×14/10+3×7/3.5 TWD TIA PA	3×14/10+3×7/3.5		2500			400
5/MPB30326/10CT	Microduct 1×14/10+9×7/3.5 TWD TIA PA	1×14/10+9×7/3.5		2500			400
5/MPB30326/14CT	Microduct 2×14/10+12×7/3.5 TWD TIA PA	2×14/10+12×7/3.5		2500			650
5/MPB30326/19CT	Microduct 3×14/10+16×7/3.5 TWD TIA PA	3×14/10+16×7/3.5	4500	2500	700	44	800
5/MPB30326/22CT	Microduct 2×14/10+20×7/3.5 TWD TIA PA	2×14/10+20×7/3.5	4700	2500	700	44	813
5/MPB30326/25CT	Microduct 1×14/10+24×7/3.5 TWD TIA PA	1×14/10+24×7/3.5	4900	2500	600	44	855
5/MPB30322/1CU	Microduct 1×7/3.5 TWD TIA PA Tracer	1×7/3.5	500	2500	93	9.2	54
5/MPB30322/4CU	Microduct 4×7/3.5 TWD TIA PA Tracer	4×7/3.5	1100	2500	210	15 × 15	175
5/MPB30322/7CU	Microduct 7×7/3.5 TWD TIA PA Tracer	7×7/3.5	2300	2500	220	22	250
5/MPB30322/12CU	Microduct 12×7/3.5 TWD TIA PA Tracer	12×7/3.5	3600	2500	300	30	455
5/MPB30322/19CU	Microduct 19×7/3.5 TWD TIA PA Tracer	19×7/3.5	5600	2500	360	36	700
5/MPB30322/24CU	Microduct 24×7/3.5 TWD TIA PA Tracer	24×7/3.5	7000	2500	440	44 × 33	798
5/MPB30326/6CU	MD 3×14/10+3×7/3.5 TWD TIA PA Tracer	3×14/10+3×7/3.5		2500			400
5/MPB30326/10CU	MD 1×14/10+9×7/3.5 TWD TIA PA Tracer	1×14/10+9×7/3.5		2500			400
5/MPB30326/14CU	MD 2×14/10+12×7/3.5 TWD TIA PA Tracer	2×14/10+12×7/3.5		2500			650
5/MPB30326/19CU	MD 3×14/10+16×7/3.5 TWD TIA PA Tracer	3×14/10+16×7/3.5	4500	2500	700	44	800
5/MPB30326/22CU	MD 2×14/10+20×7/3.5 TWD TIA PA Tracer	2×14/10+20×7/3.5	4700	2500	700	44	813
5/MPB30326/25CU	MD 1×14/10+24×7/3.5 TWD TIA PA Tracer	1×14/10+24×7/3.5	4900	2500	600	44	855

Duct Accessories



Single and Multiport Duct Seals

The Hexatronic duct sealing range includes single way simplex seals and multiport triplex and quadruplex seals. This range is utilised in traditional duct networks where conduit needs to remain uncontaminated for future adds, moves and changes. These seals can also be used to effectively eliminate potentially harmful gasses from passing into chambers, buildings or cabinets.

Cable and Duct Seals – Multi Port

Triplex and Quadruplex Duct Seal for Cables

- Water and air tight
- Triplex or quadruplex seals for standard subduct
- Simple installation around installed subducts or cables
- Holds and organizes subducts or multiple cables in main duct

Applications

Multiport cable and duct seals are installed into 100mm conduit to prevent the incursion of water and dirt into the interstices of an occupied conduit. It also effectively blocks potentially dangerous vapors. The split design allows these to be retrofit after cable installation into the pipe.

Design

These multiport seals are manufactured from high EPDM rubber and the frame and fixings are high grade stainless steel. Their innovative design allows for water and air tight connection around subduct and cables when installed into conduit.

Colour

Silver and black

Article number	Article name	Layout	Outer Diameter Ø [mm]	Port Diameter Ø [mm]	Weight [kg]
NDM11030/11	Triplex 100/3*40mm Stainless Steel	3×40	99-102	38-40	0.5
NDM11030/12	Quadplex 100/4*32mm Stainless Steel	4×32	99-102	30-32	0.64
NDM11030/142-50	Quadplex 142/4*50mm Stainless Steel	4×50	141-143	48-50	1.5

Cable and Duct Seals - Simplex

Divisible simplex duct seals

Features

- Water and air tight
- Seals both PVC and HDPE ducts
- Simple installation
- Fully divisible design
- Retrofit over installed cable
- Suitable for a wide range of cable sizes
- Twist lock to seal
- Versions for all common ducts

Application

Hexatronic's range of divisible simplex cable duct seals are designed for installation over in place cable in duct or subduct. The are intended to be retrofitted over fiber or copper communications cable to provide a dirt, water and air tight seal of the duct.

Design

These seals are constructed of quality thermoplastic with a silicone rubber seal. The body, seal and nut can be fully divided to allow for retrofit over in place cable, ensuring easy installation. The inner rubber seals are provided with several step down inserts to accept a wide range of cable diameters.

Colour

Black/White

Article number	Article name	Duct Outer Diameter Ø [mm nominal]	Duct Inner Diameter Ø [mm]	Cable Diameter Ø [mm]	Weight [kg]
NDM11030/01	Divisible Simplex Duct Seal 25mm: 5.1 - 8.9mm	25	18.8 - 20.3	5.1 - 8.9	0.01
NDM11030/02	Divisible Simplex Duct Seal 25mm: 6.9 - 8.9mm	25	18.8 - 20.3	6.9 - 8.9	0.01
NDM11030/03	Divisible Simplex Duct Seal 25mm: 8.0 - 12.7mm	25	19.8 - 21.0	8.0 - 12.7	0.01
NDM11030/04	Divisible Simplex Duct Seal 32mm: 5.0 - 9.0mm	32	25.4 - 29.0	5.0 - 9.0	0.04
NDM11030/05	Divisible Simplex Duct Seal 32mm: 9.0 - 15.0mm	32	23.4 - 25.9	9.0 - 15.0	0.04
NDM11030/06	Divisible Simplex Duct Seal 40mm: 5.0 - 9.0mm	40	31.0 - 34.5	5.0 - 9.0	0.06
NDM11030/07	Divisible Simplex Duct Seal 40mm: 9.0 - 15.0mm	40	31.0 - 34.5	9.0 - 15.0	0.06
NDM11030/08	Divisible Simplex Duct Seal 40mm: 14.0 - 18.0mm	40	31.0 - 34.5	14.0 - 18.0	0.06
NDM11030/09	Divisible Simplex Duct Seal 50mm: 9.0 - 15.0mm	50	37.1 - 41.9	9.0 - 15.0	0.10
NDM11030/10	Divisible Simplex Duct Seal 50mm: 13.0 - 18.0mm	50	37.1 - 41.9	13.0 - 18.0	0.10

End Stop for Ducts

Loop nut expanding duct plugs

Features

- Water and air tight
- Seals all types of ducts and subducts
- Simple installation with loop nut
- Internal tie off loop for hauling tape or rope tie off
- Versions for all common duct sizes

Application

End stops provide a air and water tight seal against ingress into an unoccupied duct. These end caps are typically used to maintain duct cleanliness of newly installed conduit before cable installation.

Design

These end stops are designed with a large loop nut for tightening, and a flexible rubber seal that prevents ingress when installed. Each plug has a loop both internally and externally for tying off hauling cords and tapes.

Colour

Black

Article number	Article name	Duct Outer Diameter Ø [mm nominal]	Duct Inner Diameter Ø [mm]
MPB30630/01	End Stop 25mm, ID 20-25.5 mm	25	20-25.5
MPB30630/02	Heat Shrink End Cap: 8-16mm	32	25.5-29
MPB30630/03	Heat Shrink End Cap: 16-35mm	40	31-37.5
MPB30630/04	Heat Shrink End Cap: 25-47mm	50	37.5-46.5
MPB30630/05	Heat Shrink End Cap: 42-68mm	63	46-60
MPB30630/06		75	59-76
MPB30630/07		90	76-88
MPB30630/08		110	88-102
MPB30630/09		125	99-110

Heat Shrink End Caps

End Caps for Cables and Microducts

Features

- Compatible with common cables and ducts
- Hot melt adhesive lining provides effective seal
- Can be utilised on irregular cable sheaths
- Excellent resistance to weathering,
- Seals against moisture and contamination
- Various sizes availalble

Application

Heat shrink end caps provide a dirt and water tight seal against ingress. These end caps are typically used during installation of ducts, subducts, microducts and cable during hauling to prevent contamination through the exposed end.

Design

These heatshrink end caps are constructed of quality heat shrinkable polyolepfin with a glue lining. with a silicone rubber seal. The glue lining provides a permanent and tight seal even on irregular cable sheaths.

Colour

Black

Article number	Article name	Duct/Cable Minimum Diameter Ø [mm]	Duct/Cable Maximum Diameter Ø [mm]
MPB30401	Heat Shrink End Cap: 4-8mm	4	8
MPB30402	Heat Shrink End Cap: 8-16mm	8	16
MPB30403	Heat Shrink End Cap: 16-35mm	16	35
MPB30404	Heat Shrink End Cap: 25-47mm	25	47
MPB30405	Heat Shrink End Cap: 42-68mm	42	68

Microduct Connectors and End Stops

The range of microduct connectors and end stops from Hexatronic are used to join microducts together or provide sealing from contamination prior to cable installation. The connectors and end stops can be direct buried or utilised above ground or in chambers.

Microduct Connectors and End Stops

For 7-20 mm Microducts

Features

- Easy “push-in” installation
- For above ground use or direct buried use with external cover
- Case locks the connector to prevent accidental removal of duct
- For 7 to 20 mm microducts

Application

The connectors and end caps for microducts provide a quick, easy and secure connection for air and water sealing of microducts.

Straight Connectors are used to join sections of microducts while End Stops are used to block open duct ends and prevent water and dirt from entering the microduct prior to cable installation

Design

The design of the connector incorporates pressure tight seals with O-rings and internal steel teeth that prevents accidental separation of the connector from the microduct once installed. Removal of the microduct is achieved by pushing the collet inwards. To increase crush resistance when installed direct buried, an external plastic cover is used. The cover prevent the accidental release of collets during installation and provide protection and impact resistance in use

Colour

Clear

Article number	Article name	Microduct Size OD/ID [mm]	Pack Size	Weight [kg]
1/MPB30601/7	Straight connector 7/3.5mm w cover	7/3.5	50	0.004
1/MPB30601/14	Straight connector 14/10mm w cover	14/10	20	0.019
1/MPB30601/16	Straight connector 16/12mm w cover	16/12	5	0.025
1/MPB30601/18	Straight connector 18/14mm w cover	18/14	5	0.030
1/MPB30601/2016	Straight connector 20/16mm w cover	20/16	5	0.032
MPB30606/70	End stop 7mm	7/3.5	100	0.003
MPB30601/140	End stop 14mm	14/10	40	0.009
MPB30601/160	End stop 16mm	16/12	30	0.012
MPB30601/180	End stop 18mm	18/14	25	0.015
1/MPB30601/20	End stop 20mm w cover	20/16	2	0.020

Air Blown Cable

Hexatronic Viper Micro Cable

Micro cables are extra thin fiber optic cables that are intended to be installed by blowing into microducts. Micro cables with fiber counts from 2 to 864 fibers are available. Hexatronic offers a wide range of micro cables for all applications; cost-effective solutions for general purpose or high-performance cables with improved installation performance that makes installation quick and easy and lowers your total cost.

High Performance Micro Cable

GNHL 2-432 fiber G657A1 TIA

Features

- Up to 432 fibers
- Super slim design
- Excellent installation performance
- Unique design with robust inner tubes that do not kink
- Temperature range from -45 to +70°C
- Excellent bend performance, ≥70 mm
- Easy to prepare and identify fibers
- Ultra low attenuation in cable

Applications

The Hexatronic Viper series of micro cables are characterized by state of the art installation performance when installed by blowing into microducts. Particularly, installations in access networks with difficult routes, which are facilitated by the enhanced performance of the Viper cables.

All parameters such as cable diameter, sheath friction, cable stiffness etc are optimized for best installation performance without compromizing mechanical or environmental properties

The micro cables are based on a slim loose tube design with up to 36 tubes per cable. The design facilitates fiber preparation and mid-span access. The cables are suitable for long-distance, air blown installation in microducts, with an inner diameter of as little as 8 to 12 mm. The cables have excellent bend performance and an extremely wide operational temperature range.

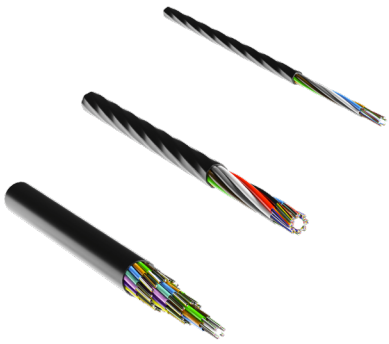
Design

The Micro Cables are designed with one, two or three layers of inner protective tubes made of a unique Polyamide compound. The Polyamide gives a special strength to the product, while increasing the bending properties as well as other benefits such as extreme temperature resistance. Each tube contains 12 or 24 fibers.

As a result, The Viper Micro Cables are more durable during the installation process as they are able to withstand rough handling. The unique cable design with an extended operational temperature range of -45 to +70°C can be used in many environments, on all continents where heat and cold are often a major concern.

Colour

Black



Article number	Article name	Fiber count	Layout	Tensile force [N]	Crush [N/ 100mm]	Bend rad. [mm]	Diameter Ø [mm]	Weight [kg/km]
TOL4019033/2C	GNHL 2/T2 G657A1 TIA	2	1×2	430	1000	75	4.2	11.5
TOL4019033/4C	GNHL 4/T4 G657A1 TIA	4	1×4	430	1000	75	4.2	11.5
TOL4019033/8C	GNHL 8/T4 G657A1 TIA	8	2×4	430	1000	75	4.2	11.5
TOL4019033/12C	GNHL 12/T4 G657A1 TIA	12	3×4	430	1000	75	4.2	11.5
TOL4019033/24C	GNHL 24/T4 G657A1 TIA	24	6×4	430	1000	75	4.2	11.5
TOL4019022/12C	GNHLDV 12/T12 G657A1 TIA	12	1×12	1200	2000	75	5.7	28
TOL4019022/24C	GNHLDV 24/T12 G657A1 TIA	24	2×12	1200	2000	75	5.7	28
TOL4019022/36C	GNHLDV 36/T12 G657A1 TIA	36	3×12	1200	2000	75	5.7	28
TOL4019022/48C	GNHLDV 48/T12 G657A1 TIA	48	4×12	1200	2000	75	5.7	28
TOL4019022/72C	GNHLDV 72/T12 G657A1 TIA	72	6×12	1200	2000	75	5.7	28
TOL4019032/96C	GNHLDV 96/T12 G657A1 TIA	96	8×12	1200	2000	80	6.1	28
TOL4019032/144C	GNHLDV 144/T12 G657A1 TIA	144	12×12	1200	2000	80	7.9	35
TOL4019032/144C	GNHL 144/T24 G657A1 TIA	144	6×24	1600	2000	70	6.7	35
TOL4019022/192C	GNHLDV 192/T24 G657A1 TIA	192	8×24	2500	2000	80	7.9	47
TOL4019039/288C	GNHL 288/T12 G657A1 TIA	288	24×12	3000	2000	80	10.3	60
TOL4019028/432C	GNHL 432/T12 G657A1 TIA	432	36×12	1800	2000	175	11.7	98

High Performance Micro Cable - Super Slim

GNHL 12-864 fiber G657A1 200 µm TIA

Features

- Super slim design with 200um fibers
- Up to 864 fibers
- Excellent installation performance
- Unique design with robust inner tubes that do not kink
- Temperature range from -40 to +70°C (12-96f: -35 to +70°C)
- Excellent bend performance, ≥30 mm
- Easy to prepare and identify fibers

Application

The Hexatronic Viper series of micro cables are characterized by state of the art installation performance when installed by blowing into microducts. Particularly, installations in access networks with difficult routes, which are facilitated by the enhanced performance of the Viper cables.

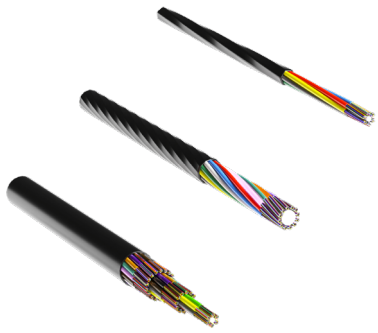
AI parameters such as cable diameter, sheath friction, cable stiffness etc are optimized for best installation performance without compromizing mechanical or environmental properties. The micro cables are based on a slim loose tube design with up to 36 tubes per cable. The design facilitates fiber preparation and mid-span access. The cables are suitable for long-distance, air blown installation in microducts, with an inner diameter of 8 to 16 mm, depending on fiber count. The cables have excellent bend performance and an extremely wide operational temperature range.

Design

The Micro Cables are designed with one, two or three layers of inner protective tubes made of a unique compound. The compound gives a special strength to the product, while increasing the bending properties as well as other benefits such as extreme temperature resistance. To enable installation into smallest possible microducts, the Hexatronic Viper super slim series is designed with 200 µm fibers.

Colour

Black



Article number	Article name	Fiber count	Layout	Tensile force [N]	Crush [N/ 100mm]	Bend rad. [mm]	Diameter Ø [mm]	Weight [kg/km]
TOL4019038/12C	GNHL 12/T12 G657A1 200um TIA	12	1×12	600	1000	80	4.3	14
TOL4019038/24C	GNHL 24/T12 G657A1 200um TIA	24	2×12	600	1000	80	4.3	14
TOL4019038/48C	GNHL 48/T12 G657A1 200um TIA	48	4×12	800	1000	80	4.3	14
TOL4019038/72C	GNHL 72/T12 G657A1 200um TIA	72	6×12	800	1000	80	4.3	14
TOL4019038/96C	GNHL 96/T12 G657A1 200um TIA	96	8×12	1500	1000	80	5.1	17
TOL4019035/144C	GNHL 144/T24 G657A1 200um TIA	144	6×24	1500	3000	100	5.6	26
TOL4019035/192C	GNHL 192/T24 G657A1 200um TIA	192	8×24	2000	3000	100	6.7	38
TOL4019038/288C	GNHL 288/T12 G657A1 200um TIA	288	24×12	2000	2000	100	7.95	65
TOL4019035/288C	GNHL 288/T24 G657A1 200um TIA	288	12×24	3000	3000	100	8.5	57
TOL4019035/432C	GNHL 432/T24 G657A1 200um TIA	432	18×24	2500	1500	100	8.8	56
TOL4019035/576C	GNHL 576/T24 G657A1 200um TIA	576	24×24	3800	1500	120	10.5	80
TOL4019035/864C	GNHL 864/T24 G657A1 200um TIA	864	36×24	4500	1800	120	11.7	100

Hexatronic Stingray Air Blown Fiber

Air Blown Fibers (ABF) are extremely slim cable units with a diameter of only 1.1 to 1.6 mm. Despite the super slim design each Air Blown Fiber has a capacity of 2 to 24 fibers. Air Blown Fibers can be installed in all types of microducts with an inner diameter of 2 up to 6 mm. Hexatronic Stingray is a high performance Air Blown Fiber with class leading long distance installation performance.

High Performance Air Blown Fiber

ABF 2-24 fibers TIA - Box

Features

- Extra strong and durable design
- Smooth, low-friction sheath
- 2, 4, 6, 8, 12 or 24 fiber
- Bend insensitive fibers
- Extra wide operational temperature range
- Water and Ice tested
- State of the art blowing performance
- Zero sheath shrinkage

Applications

Hexatronic Stingray is a high performance Air Blown Fiber Unit (ABFU) intended for blowing into microducts. The main application area of singlemode ABFU is for fiber access networks such as Fiber To The Home (FTTH).

Multimode ABFUs are typically employed in enterprise networks such as airports, container ports and hospitals.

Design

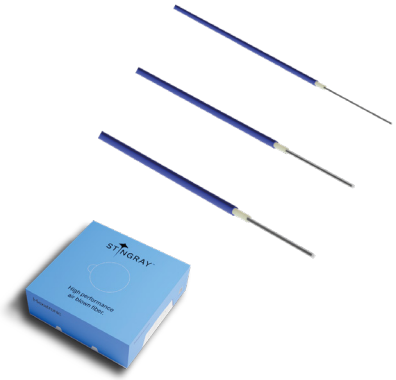
The Hexatronic Stingray Air Blown Fiber is designed with durability and performance in mind. The unique design offers a combination of properties previously not available on the market. A sturdy fiber unit with state of the art fiber blowing performance increases the installation success rate and provides quick and problem free installation. The Stingray has a unique sheath material with zero sheath shrinkage ,which means no fragile splice points or sensitive installations in wall outlets or fiber cabinets.

The Air Blown Fiber unit is coloured dark blue for good visibility when installed in semi-translucent microducts.

The Air Blown Fiber is delivered in bulk lengths in cardboard PANs. For optimum blowing performance, use the Hexatronic Air Blown Tool LTT 179 2040.

Colour

Dark Blue



Article number	Article name	Fiber count	Layout	Tensile force [N]	Bend rad. [mm]	Diameter Ø [mm]	Weight [kg/km]
KRPM258019	ABF 2 G657A2 TIA598 PAN	2	1×2	12	20	1.1	0.94
KRPM258022	ABF 4 G657A2 TIA598 PAN	4	1×4	20	20	1.1	1.02
KRPM258041	ABF 6 G657A2 TIA598 PAN	6	1×6	36	25	1.25	1.2
KRPM258034	ABF 8 G657A2 TIA598 PAN	8	1×8	48	35	1.4	1.59
KRPM258044	ABF 12 G657A2 TIA598 PAN	12	1×12	70	35	1.4	1.65
KRPM259101	ABF 12 200um G657A1 TIA598 PAN	12	1×12	70	25	1.3	1.58
KRPM259102	ABF 24 200um G657A1 TIA598 PAN	24	1×24	140	40	1.6	2.42
KRPM258023	ABF 12 MM 50µm OM3 TIA598 PAN	12	1×12	30	40	1.4	1.65
KRPM258030	ABF 12 MM 50µm OM4 TIA598 PAN	12	1×12	30	40	1.4	1.65

A lasting link to the future

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Hexatronic enables non-stop connectivity for communities worldwide. We partner with customers across four continents – from telecom operators to network owners – offering leading-edge fiber technology and solutions for any and all conditions.

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