

ELECTRICAL & TELECOMMUNICATION DUCTING

(POLYETHYLENE & PVC DUCTING SYSTEMS)



Intelligent Ducting

POLYETHYLENE TELECOMMUNICATION DUCT AND SUBDUCT.

Technical data and range available:

O.D.	Iplex Code	Colour	Coil Length	SDR Rating	Outside Diameter (mm)	Wall Thickness (mm)
32	TELEDUCT PE32/25.200	Lime Green	200m	11	32.0 - 32.3	3.1 - 3.3
32	TELEDUCT PE32/25.500	Lime Green	500m	11	32.0 - 32.3	3.1 - 3.3
63	TELEDUCT PE63/55.100	Lime Green	100m	17	63.0 - 63.6	3.8 - 4.3
63	TELEDUCT PE63/55.150	Lime Green	150m	17	63.0 - 63.6	3.8 - 4.3
110	TELEDUCT PE110/97.50	Lime Green	50m	17	110.0 - 111.0	6.6 - 7.4
110	TELEDUCT PE110/97.100	Lime Green	100m	17	110.0 - 111.0	6.6 - 7.4

Note, Black 32mm subduct with coloured stripes are available on a 'made to order basis'. Sub-duct identification is made easy in the situation where more than one sub-duct is to be inserted inside a main duct. For further details please contact Iplex Pipelines.

Electrical and Telecommunication Fittings.

Iplex Pipelines has a range of PVC and polyethylene fittings for use with electrical and telecommunication ducting. The most common fittings are the post-formed bends. Other fittings, such as tees, y-junctions, couplers etc are available but have not been listed in this brochure. For information on these fittings contact any Iplex Pipeline's representative.

Bends: The following range of post-formed bends is available from Iplex Pipelines -

Solid Wall, PVC Cableduct Bends, SOE

Nominal Size (mm)	Colour	Angle (mm)
15	White	45°
15	White	90°
20	White	45°
20	White	90°
50	Orange	45°
50	Orange	90°
80	Orange	45°
80	Orange	90°
100	Orange	45°
100	Orange	90°

Solid Wall, PVC Telecommunication Bends

Nominal Size (mm)	Joint Type	Angle (mm)
20	SOE	90°
50	RRJ	30°
50	RRJ	45°
50	RRJ	90°
100	RRJ	22°
100	RRJ	30°
100	RRJ	45°
100	RRJ	90°

Note: colour - green

Nexus, Twin walled Polyethylene Bends, Green or Orange:

Nominal Size (mm)	Angle (mm)	Bend Radius (mm)	Overall length (mm)
100	220	600	850
100	220	900	1000
100	450	600	1000
100	450	900	1200
100	900	600	1500
100	900	900	2000

Lubricant, solvent cement, cleaner primer:



Pipe lubricant in 500gm and 2kg containers are available from Iplex Pipelines to aid the joining of rubber ring jointed duct.



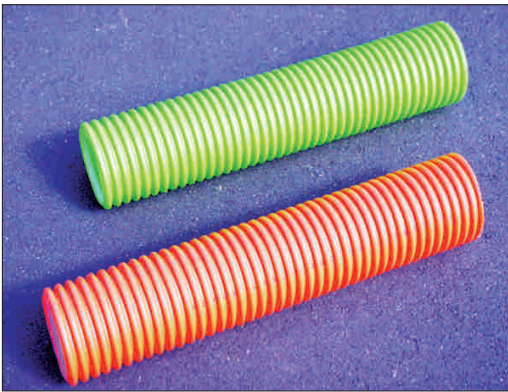
Non-pressure solvent cement in 125, 250, 500ml and 1 litre containers and cleaner primer in 250ml containers are available for jointing PVC socketed duct.

POLYETHYLENE & PVC DUCTING SYSTEMS

Iplex Pipelines NZ Ltd. is one of New Zealand's largest plastic pipe and fittings manufacturer. Iplex Pipelines has a comprehensive range of ducting products available for use in the electrical and telecommunication markets. The Iplex Pipelines name and products are widely recognised by specifiers and end users throughout New Zealand for consistent high quality and long term reliability.

The Iplex Pipelines range of ducting products is available in a variety of materials, diameters and wall construction to offer a 'fit for purpose' product to serve a multitude of ducting applications.

NEXUS, 100mm NB, TWIN WALL POLYETHYLENE (TWPE) DUCTS.



The twin wall profile of the Nexus duct brings all the advantages of plastic technology to the electrical and telecommunications market. Nexus 100mm NB ducts have a corrugated outer layer and a smooth inner wall. The two layers are extruded simultaneously and heat welded together in a continuous process. This produces a semi-rigid high strength duct ideal for use where high crush loads may occur during installation or in service. The ducts are supplied in 6 metre lengths and are joined using Nexus HDPE couplers that can be used with or without rubber rings. The combination of high strength and light weight construction makes the product an attractive alternative to the solid wall equivalent.

Features

- HDPE with twin wall construction.
- HDPE smooth inner bore.
- Lightweight, 6 metre lengths.
- Dual purpose Nexus coupler.
- O.D. compatible with 100mm solid wall duct.

Benefits

- Excellent ring strength and impact resistance.
- Enhances cable draw-in.
- Easy handling and laying
- Allows coupler to be used with or with-out rubber ring.
- Can be used with standard PVC fittings.



The Nexus TWPE duct conforms to BS EN 50086 2.4:1994, "Conduit systems buried underground." Nexus Cableduct, is designed specifically for the electrical industry. Nexus Teleduct is for the telecommunication market.

Technical data:

Product	Nom. Size (mm)	Colour	*Stiffness	Joint Type	Outside Diameter (mm)	Inside Diameter (mm)	Inner Wall Thickness (mm)	Effective Length (mm)
Nexus Cableduct	100	Orange	450N	Push Fit	110.2±0.2	95.3±0.2	0.5±0.05	6007±12.7
Nexus Teleduct	100	Green	750N	RRJ	110.2±0.2	94.7±0.2	0.8±0.05	6007±12.7

*Stiffness: the applied force required to achieve a 5% deflection

PVC ELECTRICAL DUCTING.

Iplex Pipelines NZ Ltd. has a comprehensive range of PVC electrical duct. The three main sizes, 80, 100 and 150mm NB are manufactured in accordance with AS/NZS 2053.2:1995, 'Conduits and fittings for electrical installations'. The socketed 6m lengths are most suitable for underground ducting using open trench installation. The most common usage for these ducts is overhead to underground projects and extension of existing networks. PVC ducts provide a simple way of safeguarding underground electrical cables using traditional installation methods.

Features

- Conforms to NZ Electrical Code of Practice, ISSN 0114-0663
- Durable
- Easy to install

Benefits

- Meets regulatory obligations
- Meets long term performance requirements.
- Ideal for open trench installation



Technical data and range available:

Size	Iplex Code	*Classification	Colour	Joint Type	Outside Diameter (mm)	Wall Thickness (mm)
32mm	2700.32.6 SOE	N.A.	Orange	Spigot/Socket SCJ	36.2 - 36.4	2.1 - 2.4
40mm	2700.40.6 SOE	N.A.	Orange	Spigot/Socket SCJ	42.9 - 43.1	2.0 - 2.6
50mm	2700.50.6 SOE	N.A.	Orange	Spigot/Socket SCJ	55.8 - 56.0	2.2 - 2.6
80mm	2700.80VLD.6SOE	Very light duty	Orange	Spigot/Socket SCJ	82.3 - 82.7	1.8 - 2.2
80mm	2700.80LD.6SOE	Light duty	Orange	Spigot/Socket SCJ	82.3 - 82.7	2.2 - 2.6
100mm	2700.100LD.6SOE	Light Duty	Orange	Spigot/Socket SCJ	110.0 - 110.4	2.9 - 3.4
150mm	2700.150LD.6SOE	Light Duty	Orange	Spigot/Socket SCJ	160.0 - 160.5	4.2 - 4.8

*Classification: as per Figure 101, Ammendment No.2, AS/NZS 2053.2:1995

PVC TELECOMMUNICATION DUCTING.

Iplex Pipeline's range of PVC telecommunication ducting is available for telecommunication projects requiring cable protection - the range is only for use on non - *Telecom NZ Ltd. projects.

*Telecom NZ Ltd.: Iplex Pipelines has a specific range of Telecom Branded Green approved duct available for use on Telecom NZ projects. The range is not for use on unrelated Telecom projects and only approved Telecom Contractors can purchase and install these products. For further details please contact any Iplex Pipeline's representative.



Features

- Compliance to recognised Standards
- Durable
- Easy to install

Benefits

- Meets regulatory obligations
- Meets long term performance requirements.
- Ideal for open trench installation

Technical data and range available:

Size	Iplex Code	Colour	Joint Type	Outside Diameter (mm)	Wall Thickness (mm)
15mm	CD80015	White	Spigot/Socket, SCJ	21.2-21.5	1.2 - 1.5
20mm	CD80020	White	Spigot/Socket, SCJ	26.6 - 26.9	1.3 - 1.6
20mm	TELEDUCT.20.6SOE	Green	Spigot Socket, SCJ	26.6 - 26.9	1.9 - 2.3
50mm	TELEDUCT.50.6Z	Green	Rubber Ring Joint	60.2 - 60.5	2.4 - 2.9
100mm	TELEDUCT.100.6RRJ	Green	Rubber Ring Joint	110.0 - 110.4	3.4 - 3.9
100mm	TELEDUCT.MLP.100.6RRJ	Green	Rubber Ring Joint	110.0 - 110.4	2.7 - 3.3

POLYETHYLENE ELECTRICAL AND TELECOMMUNICATION DUCTING.

Iplex Pipeline's range of polyethylene cable ducting complements the modern art of 'trenchless technology'. In many instances the most cost effective way of installing electrical and/or telecommunication ducting in under road applications, or heavily built up areas, is to use directional drilling technology. For this type of application, long runs of polyethylene ducting have proven to be most suitable.

The range of ducts is designed to suit a myriad of end use applications. Iplex Pipeline's ability to stripe polyethylene ducting makes identification in multiply duct situations easy. The available range conforms dimensionally to AS/NZS 4130, "PE Pipes for Pressure Applications", for SDR17 and SDR11 duct using standard PE80B (MDPE), or when specifically requested PE80C (HDPE) materials.

Features

- Supplied in coil lengths
- Durable
- Striping options
- Approved by major power and telecommunication authorities

Benefits

- Suitable for use with trenchless applications
- Less requirement for couplers
- Can be dispensed using purpose built trailers
- Meets long term performance requirements
- Ease of identification
- Meets regulatory obligations



POLYETHYLENE ELECTRICAL DUCT.

Technical data and range available:

OD (mm)	Iplex Code	Colour	Coil Length	*SDR Rating	Outside Diameter (mm)	Wall Thickness (mm)
32	CABLEDUCT OR 32/25.200	All Orange	200m	11	32.0 - 32.3	3.1 - 3.3
32	CABLEDUCT OR 32/25.500	All Orange	500m	11	32.0 - 32.3	3.1 - 3.3
63	CABLEDUCT BOR 63/55.100	Black, Orange Stripes	100m	17	63.0 - 63.6	3.8 - 4.3
63	CABLEDUCT BOR 63/55.150	Black, Orange Stripes	150m	17	63.0 - 63.6	3.8 - 4.3
90	CABLEDUCT BOR 90/79.50	Black, Orange Stripes	50m	17	90.0 - 90.9	5.4 - 6.1
90	CABLEDUCT BOR 90/79.100	Black, Orange Stripes	100m	17	90.0 - 90.9	5.4 - 6.1
100	CABLEDUCT BOR 110/97.50	Black, Orange Stripes	50m	17	110.0 - 111.0	6.6 - 7.4
100	CABLEDUCT BOR 110/97.100	Black, Orange Stripes	100m	17	110.0 - 111.0	6.6 - 7.4

*SDR: Standard dimensions ratio - a nominal ratio of the pipe outside diameter to it's wall thickness.

ELECTRICAL & TELECOMMUNICATION DUCTING

(POLYETHYLENE & PVC DUCTING SYSTEMS)



Iplex Pipelines NZ Limited Product Range

NOVADRAIN

uPVC DRAIN WASTE & VENT SYSTEMS

NOVAKEY

uPVC PRESSURE SYSTEMS

NEXUSFLO, NEXUSCOIL & NEXUS HI-WAY®

LAND DRAINAGE SYSTEMS

REDLINE™

MEDIUM DENSITY POLYETHYLENE PIPE

GREENLINE & AGFIT

FLEXIBLE MEDIUM DENSITY POLYETHYLENE PIPE & FITTINGS

POLIPLEX

POLYETHYLENE PRESSURE PIPE

POLIDRAIN

POLYETHYLENE DRAINAGE SYSTEM

BLUELINE

MDPE PRESSURE PIPE

IPLEX EFFLUENT PIPE

MEDIUM DENSITY POLYETHYLENE PIPE

NOVATHENE®

LOW DENSITY POLYETHYLENE PIPE

FARMTUFF EXTRA®

uPVC CULVERT PIPE

ROOFLINE & RAINBOW

uPVC SPOUTING AND DOWNPIPE

RHINO®

MPVC PRESSURE PIPE

SUPERTUFF™

PVC SEWER AND DRAIN PIPE

SUPERSTORM, STORMFLO & HANDYPIPE®

STORMWATER DUCT

STORMCHANNEL

SURFACE WATER DUCTING SYSTEM

TRANSIT SPEC

PVC CULVERT PIPES

POLIGAS

POLYETHYLENE GAS SYSTEMS

MONOLINE ELECTROFUSION

POLYETHYLENE PRESSURE FITTINGS

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Pipelines

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The information contained in this brochure is intended to be of a general nature and should be used as a guide only. Before relying on any of the information in this brochure, you should first refer to the appropriate codes and standards and consult Iplex Pipelines and / or your local authority.