



**ELECTRICAL and TELECOMMUNICATIONS
DUCTING and CONDUIT
(PVC and POLYETHYLENE SYSTEMS)**



PVC RIGID ELECTRICAL CABLE DUCT:

Iplex PVC electrical cable ducts are “rigid conduits” as defined in AS / NZS 2053.1.

They are intended for durable underground installation using conventional open cut trench methods, to identify and protect contained underground electrical cables. If used unprotected from the sun above ground, UV / weathering resistance of the duct will be limited and colour fading (whitening), with some loss of impact strength will occur over time.

- DN 80, 100 and 150mm NB ducts colored orange are manufactured in accordance with AS/NZS 2053.2:2001 “Conduits and fittings for electrical installations - Part 2: Rigid plain conduits and fittings of insulating material”
- DN 32, 40 and 50 NB ducts colored orange are manufactured to the OD and wall thickness dimensions of AS / NZS 1260:2009



2700.50.6 SOE



2700.100HD.6SOE

Technical data and product range available:

+	Iplex Order 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	2700.80LD.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
100mm	2700.100HD.6SOE	Heavy Duty	Orange	Spigot/Socket SCJ	110.0 – 110.4	5.7 – 6.5
150mm	2700.150HD.6SOE	Heavy Duty	Orange	Spigot/Socket SCJ	160.0 – 160.5	8.3 – 9.3

*Classification: as depicted in Table 101, AS/NZS 2053.2:2001

SCJ = Solvent Cement Joint

PVC RIGID ELECTRICAL CONDUIT:

Iplex PVC Electrical Conduits are “pliable conduits” as defined in AS/NZS 2053.2:2001

They are colored either orange or grey and intended for durable above-ground installation inside commercial and domestic buildings, to identify and protect contained electrical wiring or cables.

If used unprotected from the sun above ground, UV / weathering resistance of the conduit will be limited and colour fading (whitening), with some loss of impact strength will occur over time.

- 20mm, 25mm, 32mm, 40mm and 50mm NB PVC conduits colored orange or grey are manufactured in accordance with AS/NZS 2053.2:2001 “Conduits and fittings for electrical installations - Part 2: Rigid plain conduits and fittings of insulating material” – Medium Duty



2800.25.4 SOE (Grey)



2800.25.4 SOE (Orange)

Technical data and range available:

+	Iplex Order Code	*Classification	Colour	Joint Type	Outside Diameter (mm)	Wall Thickness (mm)
20mm	2800.20.4 SOE	Medium Duty	Grey	Spigot/Socket SCJ	19.7 – 20.0	1.8 – 2.1
25mm	2800.25.4 SOE	Medium Duty	Grey	Spigot/Socket SCJ	24.7 – 25.0	1.8 – 2.1
32mm	2800.32.4 SOE	Medium Duty	Grey	Spigot/Socket SCJ	31.7 – 32.0	2.1 – 2.4
40mm	2800.40.4 SOE	Medium Duty	Grey	Spigot/Socket SCJ	39.7 – 40.0	2.4 – 2.7
50mm	2800.50.4 SOE	Medium Duty	Grey	Spigot/Socket SCJ	49.7 – 50.0	2.8 – 3.1
20mm	2850.20.4 SOE	Medium Duty	Orange	Spigot/Socket SCJ	19.7 – 20.0	1.8 – 2.1
25mm	2850.25.4 SOE	Medium Duty	Orange	Spigot/Socket SCJ	24.7 – 25.0	1.8 – 2.1
32mm	2850.32.4 SOE	Medium Duty	Orange	Spigot/Socket SCJ	31.7 – 32.0	2.1 – 2.4
40mm	2850.40.4 SOE	Medium Duty	Orange	Spigot/Socket SCJ	39.7 – 40.0	2.4 – 2.7
50mm	2850.50.4 SOE	Medium Duty	Orange	Spigot/Socket SCJ	49.7 – 50.0	2.8 – 3.1

*Classification: as depicted in Table 101, AS/NZS 2053.2:2001

PVC TELECOMMUNICATION DUCTING (Chorus Branded):

(Sold only to Chorus approved installers*)

Iplex Pipeline’s range of PVC telecommunication ducting is available for telecommunication projects requiring cable protection

** Only approved Chorus Contractors can purchase and install these products. For further details please contact Iplex Pipelines..*

PVC Telecommunication duct (Chorus Branded)

Size	Iplex Order Code	Colour	Joint Type	Outside Diameter	Wall Thickness
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				(mm)	(mm)
20mm x 6m	10012937	Green	Spigot/Socket, SCJ	26.6 – 26.9	1.3 – 1.6
20mm x 6m	10013281	White	Spigot/Socket, SCJ	26.6 – 26.9	1.3 – 1.6
50mm x 6m	P4001	Green	Rubber Ring Joint	60.2 – 60.5	2.4 – 2.9
100mm x 6m	P4000	Green	Rubber Ring Joint	110.0 – 110.4	2.7 – 3.3



20mm Telecommunications Duct (Chorus branded)

PVC Telecommunication repair sleeve (Chorus Branded)

Size	Iplex Order Code	Colour	Joint Type	Internal Diameter (mm)	Wall Thickness (mm)
50mm x 2m	10013103	Green	Plain end, SCJ	60.5	2.4 – 2.9
100mm x 2m	10013102	White	Plain end, SCJ	110.4	2.7 – 3.3



100mm PVC Repair sleeve



50mm PVC Repair sleeve

Repair sleeve slides over the outside of the PVC telecommunication duct, and is joined to the duct with PVC solvent cement.



100 mm green PVC Telecommunication ducts, showing horizontal separation in the trench space from other services such as recycled water (purple), potable water (white) and gas (Yellow)
Also trench wall is marked to locate backfill compaction zones above the pipes

POLYETHYLENE ELECTRICAL and TELECOMMUNICATION DUCTING:

Iplex Pipeline's range of polyethylene cable ducting complements the use of trenchless installation methods, including Horizontal Directional Drilling, under roads and built up areas, or where conventional open cut trenching is impractical.

Iplex Pipeline's ability to color or color- stripe polyethylene ducting, assists the duct asset owner with identification in multiple duct applications.

The available PE duct range conforms dimensionally to AS/NZS 4130, "PE Pipes for Pressure Applications", for SDR17 duct using PE80 (MDPE) materials.

100 mm orange PVC Electrical ducts, showing correct horizontal separation in the trench space from other services such as recycled water (purple), potable water (white) and gas (Yellow)
Also trench wall is marked to locate backfill compaction zones above the pipes

POLYETHYLENE ELECTRICAL DUCT:



Two DN 110 PE electrical ducts in 50m coils on a dual-coil dispensing trailer



DN 110 PE electrical ducts with pull heads in place, ready for pull-in by horizontal directional drilling

Technical data and range available:

COILED PE ELECTRICAL CABLE DUCT SDR 17 (ORANGE)

OD mm	Iplex Code	Colour	Coil Length	SDR Rating	Outside Diameter (mm)	Wall Thickness (mm)
32	CABLE DUCT OR 32/25.200	All Orange	200m	17	32.0 – 32.3	1.9 – 2.2
32	CABLE DUCT OR 32/25.500	All Orange	500m	17	32.0 – 32.3	1.9 – 2.2
63	CABLE DUCT OR 63/55.100	All Orange	100m	17	63.0 – 63.6	3.8 – 4.3
63	CABLE DUCT OR 63/55.150	All Orange	150m	17	63.0 – 63.6	3.8 – 4.3
90	CABLE DUCT OR 90/79.50	All Orange	50m	17	90.0 – 90.9	5.4 – 6.1
90	CABLE DUCT OR 90/79.100	All Orange	100m	17	90.0 – 90.9	5.4 – 6.1
110	CABLE DUCT OR 110/97.50	All Orange	50m	17	110.0 – 111.0	6.6 – 7.4
110	CABLE DUCT OR 110/97.100	All Orange	100m	17	110.0 – 111.0	6.6 – 7.4
125	CABLE DUCT OR 125/110.100	All Orange	100m	17	110.0 – 111.0	7.4 – 8.3

COILED PE TELECOMMUNICATION DUCT



DN 32 PE telecommunication duct in a 500m coil on a coil dispensing trailer



DN 110mm PE telecommunication duct in a 100m coil on a coil dispensing trailer

Technical data and range available:

COILED PE TELECOMMUNICATION DUCT SDR 17 (Green)

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	2.9 – 3.3
32	TELEDUCT PE32/25.500	Lime Green	500m	11	32.0 – 32.3	2.9 – 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

COILED PE TELECOMMUNICATION DUCT (Chorus Branded)

ORDER CODE	COLOUR	SIZE mm	COIL LENGTH m
20021793	GREEN	20mm	200m
10012829	BLACK with RED TRI-STRIPE	32mm	1000m
10012829500	BLACK with RED TRI-STRIPE	32mm	500m
10012830	BLACK with GREEN TRI-STRIPE	32mm	1000m
10012830500	BLACK with GREEN TRI-STRIPE	32mm	500m
10012831	BLACK with VIOLET TRI-STRIPE	32mm	1000m
10012831500	BLACK with VIOLET TRI-STRIPE	32mm	500m
10012832	BLACK with BROWN TRI-STRIPE	32mm	1000m
10012832500	BLACK with BROWN TRI-STRIPE	32mm	500m






DN 32 PE sub- ducts inside 100mm PVC carrier ducts, at a roadside connection pit

** Only approved Chorus Contractors can purchase and install Chorus branded products. For further details please contact Iplex Pipelines..*


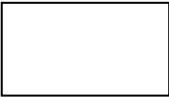
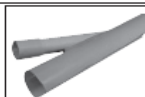

Electrical and Telecommunication Fittings

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. For more information on these fittings contact Iplex Pipelines.

PVC Telecommunication Bends, Couplers and Saddles (Chorus Branded)

ORDER CODE	COLOUR	SIZE mm	QTY	
10012582	GREEN	20mm x 90° ROD* 240	1	 20MM FORMED BEND
10013280	GREEN	20mm x 90° ROD* 400	1	
10012939	GREEN	20mm x 90° ROD* 530	1	
10013279	WHITE	20mm x 90° ROD* 100	1	
10012940	WHITE	20mm x 90° ROD* 300	1	
10013084	GREEN	50mm x 30° ROD*350	1	 50MM FORMED BEND M&F
10013087	GREEN	50mm x 45° ROD*200	1	
10013086	GREEN	50mm x 45° ROD*350	1	
10013100	GREEN	50mm x 45° ROD*900	1	
10013088	GREEN	50mm x 90° ROD*350	1	
10013099	GREEN	50mm x 90° ROD*900	1	 100MM FORMED BEND M&F
10013098	GREEN	100mm x 22° ROD*900	1	
10013091	GREEN	100mm x 30° ROD*300	1	
10013093	GREEN	100mm x 45° ROD*300	1	
10011337	GREEN	100mm x 90° ROD*350	1	
10013095	GREEN	100mm x 90° ROD*400	1	
10013094	GREEN	100mm x 90° ROD*600	1	
10013096	GREEN	100mm x 90° ROD*900	1	

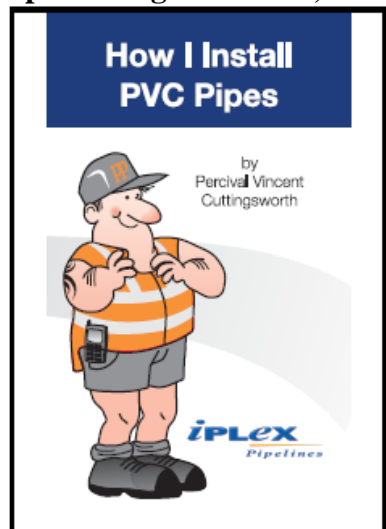
*Radius of Diameter

ORDER CODE	COLOUR	SIZE mm	QTY	
10013109	GREEN	50mm	1	 COUPLER
10012938	GREEN	50mm x 20mm	1	
				 REDUCING SADDLE
P4004	BLACK	50mm	1	
P4005	BLACK	100mm	1	 DUST CAP SOCKET ONE END (WHITE)

PVC-U CABLE DUCT BENDS (WHITE)

ORDER CODE	SIZE mm	QTY	
CD8032045	20 x 45°	1	 FORMED BENDS F&F (WHITE)
CD8032090	20 x 90°	1	

Pipe Joining Lubricant, solvent cement, and cleaner primer:



Refer to “How I install PVC Pipes” available at <http://www.iplex.co.nz>

How I Solvent Cement Joint PVC Pipes

by
Percival
Vincent
Cuttingsworth



iplex
Pipelines

Refer to “How I solvent Cement Joint PVC Pipes” available at <http://www.iplex.co.nz>

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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/or consult Iplex Pipelines