



# PRODUCT CATALOGUE





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## ABOUT UCS

Underground Civil Supplies (UCS), is an Australian owned and operated business that was established to provide products and services to the civil and electrical sectors.

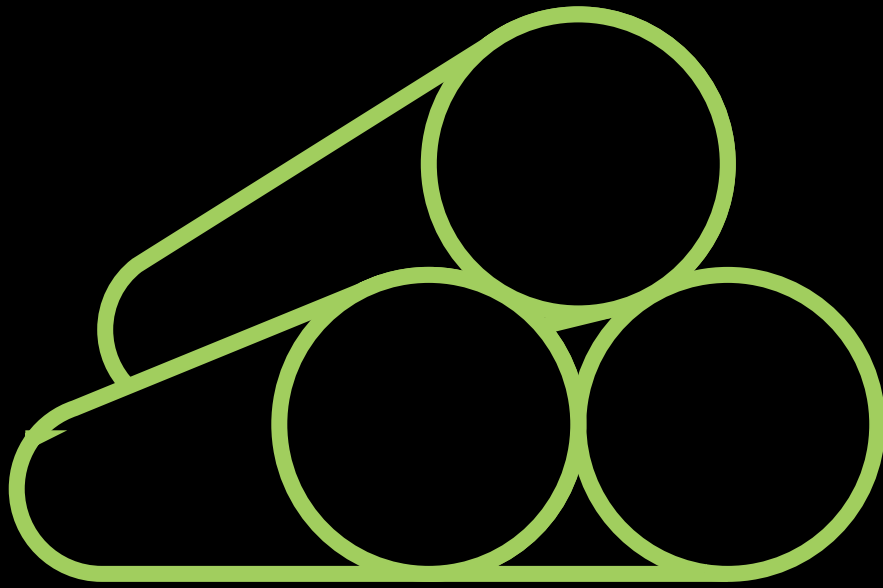
Together, our team of account managers and sales staff boast over 30 years of industry experience, giving us the ability to problem solve, understand and meet the requirements of our customers.

Renowned for quick turnaround times, customer service, industry knowledge and range of products, UCS is your "one stop shop" for following sectors:

- Electrical
- Communications
- Civil
- NBN
- Rail
- Road
- Defence
- CSG
- Substations
- Transmission Lines

All UCS products meet Australian Standards AS/NZS 2053.1:2001





# CONDUIT

UCS offer a range of PVC orange, grey electrical and communications conduits.





All conduits are manufactured to meet Australian standards AS/NZS 2053.1:200

#### DIAMETERS 20MM THROUGH TO 200MM IN THE FOLLOWING RATINGS:

HDPVC or Class 12 - Orange  
LDPVC or Class 6 - Orange  
MDPVC or Class 9 - Grey

#### OTHER RATINGS OF CONDUIT UCS CAN SUPPLY IN SIZES 20MM TO 150MM INCLUDE:

Communications  
HD Communications  
Telstra  
NBN

#### DRAINAGE

DWV  
Stormwater

#### ELECTRICAL CONDUIT - HD:

20mm HD Orange Conduit 4M
25mm HD Orange Conduit 4M
25mm HD Grey Solar Conduit 4M
32mm HD Orange Conduit 4M
40mm HD Orange Conduit 4M
50mm HD Orange Conduit 4M
63mm HD Orange Conduit 4M
80mm HD SC Orange Conduit 4M
100mm HD SC Orange Conduit 4M
125mm HD SC Orange Conduit 4M
150mm HD SC Orange Conduit 4M
200mm HD Orange Conduit 4M

#### ELECTRICAL CONDUIT - LD:

80mm LD Orange Conduit 6M
100mm LD Orange Conduit 6M
125mm LD Orange Conduit 6M
150mm LD Orange Conduit 6M
200mm LD Orange Conduit 6M

#### ELECTRICAL CONDUIT - COMMS:

20mm Austel Commun Conduit 4M
25mm Austel Commun Conduit 4M
32mm Austel Commun Conduit 4M
50mm Austel Commun Conduit 4M
80mm Austel Commun Conduit HD
100mm Austel Commun Conduit 6m & HD
150mm Austel Commun Conduit 4m HD

#### DWV PIPE - SWJ

50mm DWV Pipe 6m Length
65mm DWV Pipe 6m Length
80mm DWV Pipe 6m Length
100mm DWV Pipe 6m Length SN6
150mm DWV Pipe 6m Length SN4
225mm DWV Pipe 6m Length SN4
300mm DWV Pipe 6m Length SN4

#### DWV SN8 PIPE

150mm SN8 DWV SC Pipe 3M SW & RRJ
225mm SN8 DWV SC Pipe 3M SW & RRJ
300mm SN8 DWV SC Pipe 3M SW & RRJ
375mm SN8 DWV SC Pipe 3M SW & RRJ

#### STORMWATER PIPE

90mm Stormwater Pipe 6m Length & Extra Heavy
160mm White Stormwater Pipe 6m Length
225mm White Stormwater Pipe 6m Length
300mm White Stormwater Pipe 6m Length
375mm White Stormwater Pipe 6m Length



# BENDS

UCS are an industry leader in the supply of electrical and communications PVC conduit bends. UCS has the capability to supply both standard and custom bends with fast turn around times.





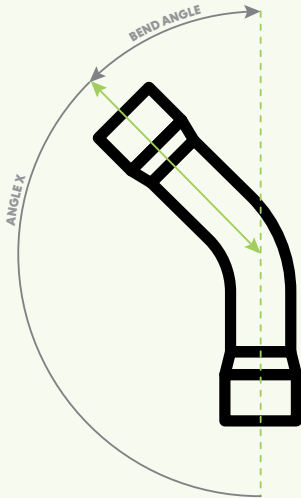
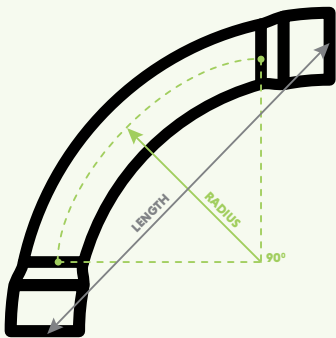
STANDARD BENDS



SIZE:	DEGREE:	RADIUS:
20mm	6	150
25mm	11.25	300
32mm	15	450
40mm	22.5	600
50mm	30	750
63mm	45	800
80mm	60	1000
100mm	90	1200
125mm		1500
150mm		1830
200mm		2000
		2400
		3000
		4000
		5000
		6000

ORDERING CUSTOM BENDS

The radius of a bend is measured from the 90° point not including the socket, through to the centre line of the conduit.  
The radius is also equal to the offset distance as shown by the dotted line.



When ordering a bend make sure you are ordering by the "BEND ANGLE" as shown here.

"BEND ANGLE" = 180 - "ANGLE X"





# FITTINGS





**SLIP COUPLINGS**

Heavy Duty Orange  
Light Duty Orange  
Communications White  
NBN/Telstra

**BELL MOUTHS**

Socket, Spigot &  
Double-Ended

Heavy Duty Orange  
Light Duty Orange  
Communications White  
NBN/Telstra

**JOINERS**

Heavy Duty Orange  
Light Duty Orange  
Communications White  
NBN/Telstra

20mm	50mm	125mm
25mm	63mm	150mm
32mm	80mm	200mm
40mm	100mm	

**REDUCERS & ADAPTORS**

Heavy Duty Orange  
Light Duty Orange  
Communications White

**REDUCERS:**

25-20mm
32-25mm
40-32mm
50-40mm
63-50mm
80-63mm
100-80mm
125-100mm
150-125mm

**ADAPTORS:**

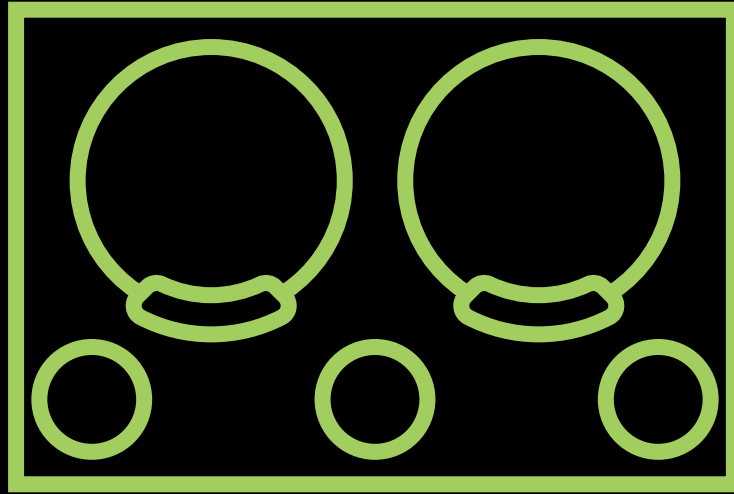
63PE-50HD
63PE-50COM
63PE-50Telstra
63PE-50NBN
110PE-100HD
125PE-100HD
140PE-125HD
140PE-150HD
180PE-150HD

**HOCKEY STICKS/  
LEAD IN BENDS**

Heavy Duty Orange

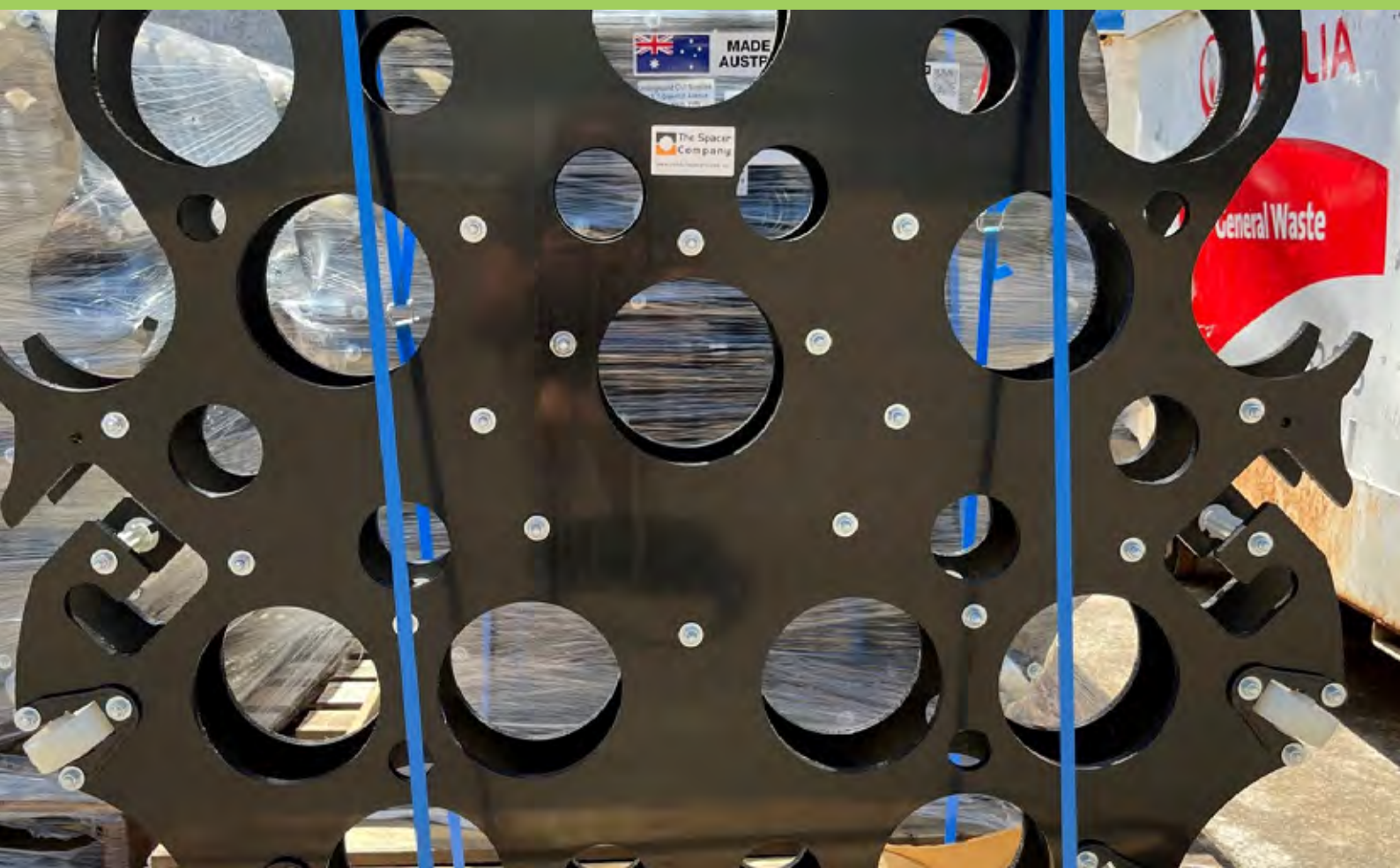
**PIT BUSHES**

Heavy Duty Orange  
Communications White  
NBN/Telstra



# SPACERS

Spacers allow conduit of varying sizes and configurations to be laid within a conduit trench or duct at a consistent separation. Spacers assemble easily with no special tools required.



## ORIGINAL SPACER



**ORIGINAL CONDUIT SPACERS ARE DESIGNED TO SUIT 100MM, 125MM, 150MM AND 200MM CONDUIT.**

- Designed to accommodate either light or heavy duty standard conduits
- Allows for various conduit sizes together in the same trench
- Quick pre-assembly outside of trench
- Spacers lock together using the unique locking lugs to form a matrix
- The matrix can be customised on site to suit the particular application
- Minimum 50mm separation between conduits by design
- Vary separation as desired during assembly

## QIKBUILD SPACER



The QIKBUILD Conduit Spacer System allows for quick and simple slide-fit assembly. The unique Taper Locks connect, forming a sturdy connection.

Unlike the Standard Conduit Spacer, the QIKBUILD Spacer is flexible to better conform to uneven trench bases. The thin walls ensure backfill is unhindered and can flow completely around the conduits.

## BAFFLE SPACERS



Baffle Spacers allow you to customise the trench or duct layout for applications that may not be possible with standard spacers.

Designs can be made to suit your application. Baffles are CNC Machined using 15mm thick PVC Celuka Sheet.

Baffle Saddles are available for 100mm, 125mm, 150mm and 200mm conduit to reduce any ovality caused by ground settling.

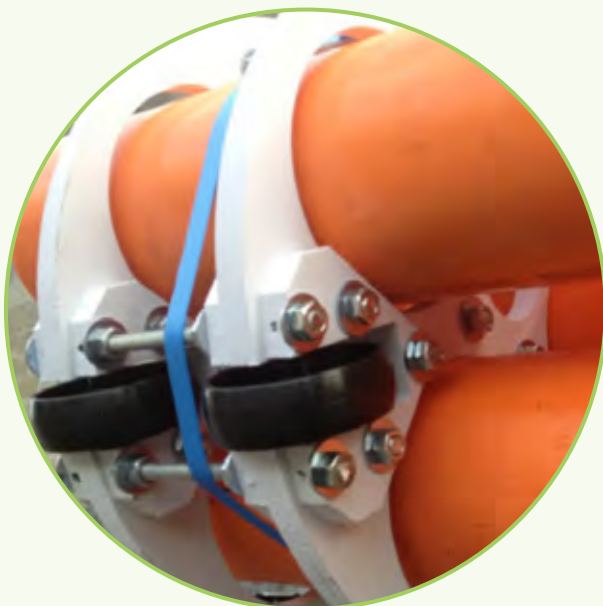
Baffle feet can be used to help stabilise a baffle whilst loading conduits. The baffle feet are especially useful in open top situations where conduits are loaded into the top of a baffle.







## TRENCHLESS BORE SPACER



Trenchless Bore Spacer allows telecommunications and power utilities to quickly and easily install conduit underground beneath structures such as roads and railways. The Trenchless Bore Spacer is designed to support the bundles of conduit throughout the installation process.

Each Trenchless Bore Spacer is custom designed and cut using a CNC Router.

## SPACER BLOCKS



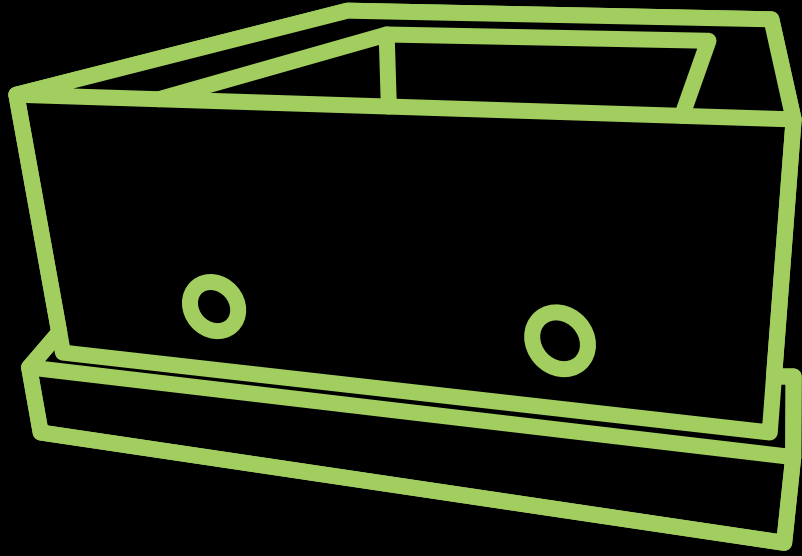
Customised Conduit layout is possible using combinations of Spacer Blocks placed throughout the assembly.

Spacer Blocks are also being used to clip to the sides of a frame to allow support rods to be attached to reduce movement of the frame during a pour.

Spacers Blocks are available in 20mm, 25mm and 50mm to provide a flexible solution for your layout.







# PITS





## CONCRETE PITS

Concrete Pits are designed for use in electrical and telecommunications applications. Concrete Jointing Pits, single or multi part, are for use in jointing of underground electrical cables (HV/LV), communication jointing or fibre optics. UCS also offer a range of SCEC endorsed security lids, pits and accessories. Concrete pits can be manufactured to specification – please contact your account manager for more details.

### APPLICATIONS:

- Defence (SCEC)
- Feeder upgrades
- Substations
- Quarries
- Rail
- Airports
- Road projects

## GRC PITS

Glass Reinforced Concrete (GRC) Pits combine the high strength of glass fibre with the rigidity of cement mortar to give a tough, rigid material that has a superior strength to weight ratio. GRC pits are easy to work with and can be used in a wide range of projects.

### APPLICATIONS:

- Substations
- Quarries
- Rail
- Airports
- School projects
- Sporting fields

## PLASTIC PITS

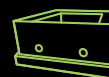
Plastic (polyethylene) Pits are designed for use in a range of electrical and telecommunications applications. They are robust, cost-effective and versatile. Plastic pits are extremely lightweight, providing on-site manual handling solutions for a health and safety conscious design. Plastic pits can support either a Class A or B load rated cover.

### APPLICATIONS:

- Median strips
- Sports venues
- Residential
- Streetscapes
- Landscaped areas

### PLASTIC CABLE PIT SIZES:

<b>P1 Pit:</b> 520mm x 230mm x 408mm	<b>P5 Pit:</b> 710mm x 400mm x 830mm
<b>P2 Pit:</b> 655mm x 287mm x 565mm	<b>P6 Pit:</b> 1375mm x 615mm x 685mm
<b>P3 Pit:</b> 780mm x 350mm x 625mm	<b>P8 Pit:</b> 1375mm x 615mm x 900mm
<b>P4 Pit:</b> 710mm x 455mm x 635mm	<b>P9 Pit:</b> 2100mm x 610mm x 920mm





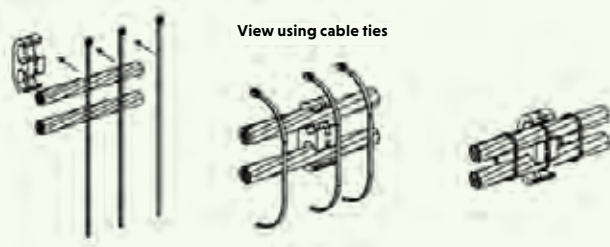
# EARTHING CRIMPS

## NOTES

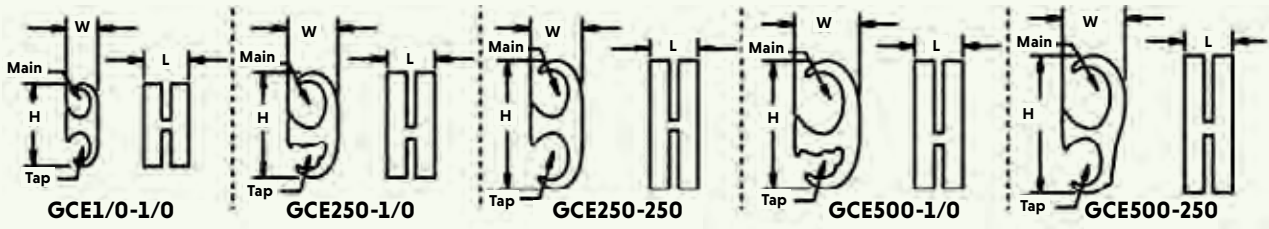


## TYPE GCE

- Rapid Wide range-taking ability and multi-conductor design provide flexibility with a minimum number of parts, allowing for conductor to conductor, conductor to rebar, and conductor to ground rod applications
- Designed for the enhanced crimp process using patent pending technology meets IEEE Std 837™ - 2002
- Slotted design allows quick and easy assembly of conductor to connector using Panduit cable ties, included
- Pre-applied conductive antioxidant compound ensures a high quality mechanical and electrical bond, speeding installation
- Color-coded and marked with Panduit die index numbers for proper crimp die selection
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete when crimped with Panduit or industry standard crimping tools and Panduit dies
- Complies with vibration tests per MIL-STD-202G (METHOD 201A)

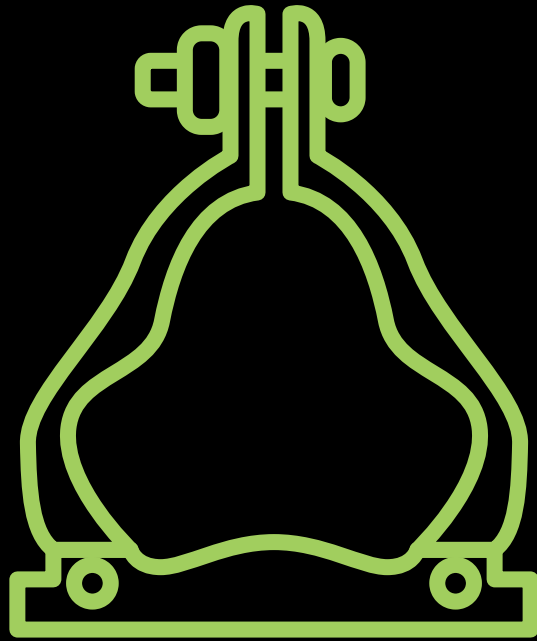


View using cable ties



Part No.	Element	Copper Conductor Size Range mm <sup>2</sup>	Ground Rod Size mm	Rebar Size mm	Figure Dimensions mm			Panduit Die Index No.
					L	W	H	
GCE1/0-1/0	Main	16 - 50	-	-	23.9	16.8	43.7	PG10
	Tap							
GCE250-1/0	Main	70 - 120	12.7-15.9	9.5-12.7	25.4	26.7	55.4	PG25
	Tap	16 - 50	-	-				
GCE250-250	Main	70 - 120	12.7-15.9	9.5-12.7	25.4	27.4	67.6	PG25
	Tap							
GCE500-1/0	Main	150 - 240	12.7-19.1	15.9-19.1	25.4	34.5	67.1	PG50
	Tap	16 - 50	-	-				
GCE500-250	Main	150 - 240	12.7-19.1	15.9-19.1	25.4	33.4	72.4	PG50
	Tap	70 - 120	-	-				





# CABLE CLEATS

Cable cleats ensure cables remain in place in the event of a short circuit fault, minimising damage to personnel and property. Our range of Panduit cleats are engineered for ease of installation in a variety of environments.





UCS offers Panduit's full range of fault current rated cable cleats, all tested and certified to IEC61914.

We have a focus on Panduit's revolutionary MLT and MS double loops strapping style cleats, of which UCS hold significant stock for the convenience of our customers.

Along with the one-size fits all stainless steel strapping cleats, we supply a range of Panduit's traditional cleats including single & trefoil Poly, along with Aluminium and Stainless Steel.



**TREFOIL CLEAT**  
Stainless Steel 12 Parts

20-25 mm	42-48 mm
23-28 mm	46-52 mm
26-32 mm	50-57 mm
30-36 mm	54-61 mm
34-40 mm	58-65 mm
38-44 mm	62-69 mm



**BUCKLE STRAP CLEAT**  
Stainless Steel 6 Parts

12-45 mm	95-120 mm
45-70 mm	120-150 mm
70-95 mm	150-170 mm



**LOCKING STRAP CLEAT**  
Stainless Steel 13 Parts

12-95 mm (5)
95-120 mm (1)
95-150 mm (3)
120-150 mm (1)
150-195 (3)



**TREFOIL CLEAT**  
Aluminium 14 Parts

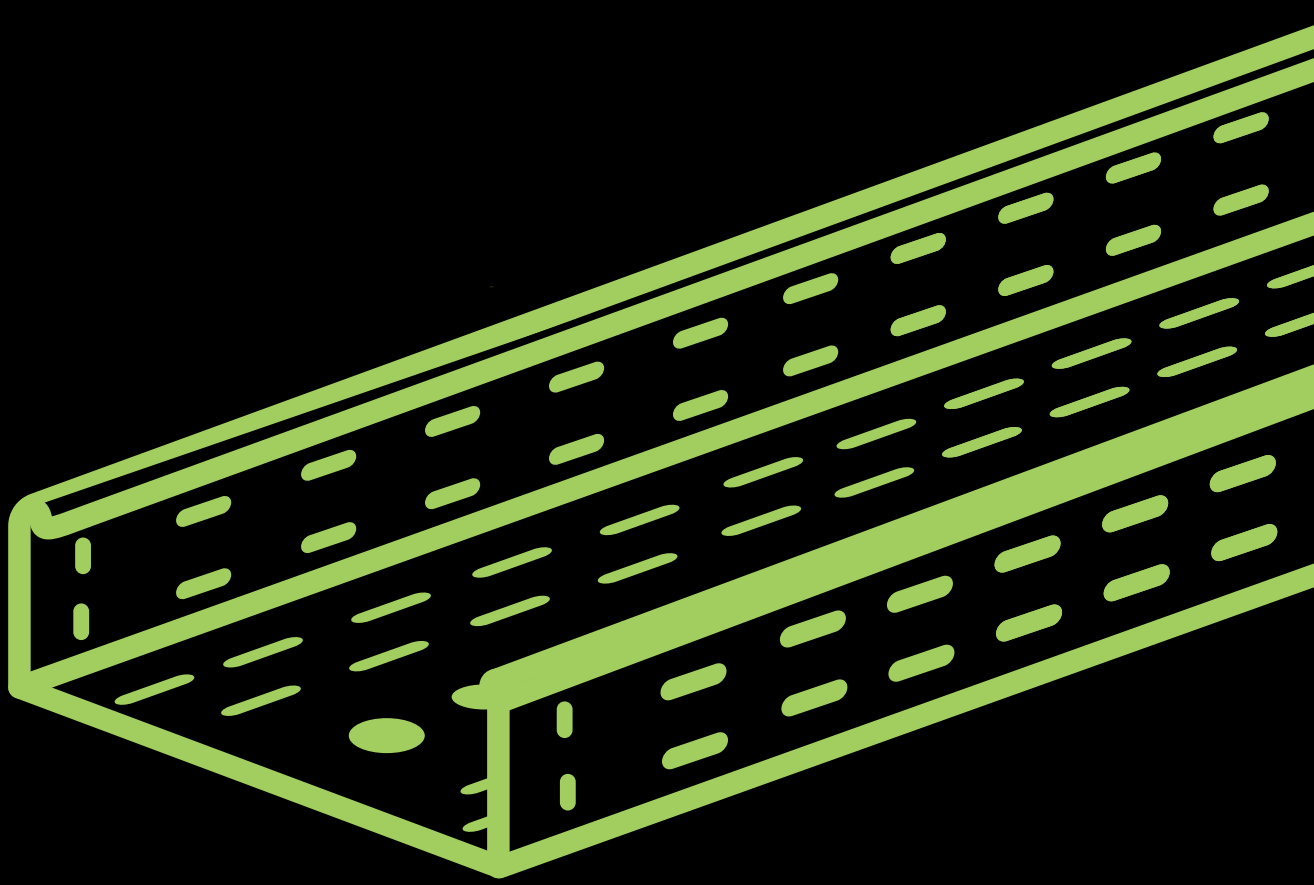
23-26 mm	40-44 mm
25-28 mm	43-47 mm
27-30 mm	46-51 mm
29-32 mm	50-56 mm
31-35 mm	55-61 mm
34-38 mm	60-67 mm
37-41 mm	66-75 mm



**ONE-HOLE CLEAT**  
Aluminium 10 Parts

10-13 mm	27-32 mm
13-16 mm	32-38 mm
16-19 mm	38-46 mm
19-23 mm	46-51 mm
23-27 mm	51-57 mm



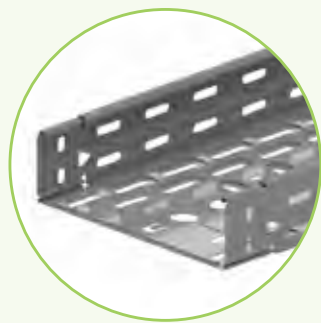


# **CABLE TRAYS & LADDERS**





### VERGOKAN CLICKABLE TRAY



A new generation of cable trays designed for quick and reduced installation costs.

- Rapid installation on straight runs by quick alignment and click in position
- Lower installation costs, immediate time and cost savings
- The unique 'click' and forget design saves you time and installation, no need for splice plates, nuts & bolts
- Wide range of accessories and covers
- Load Rating: 75kg/m at 2m spans
- Available in 100mm, 150mm and 300mm widths with a depth of 60mm
- Perforated pattern for extra stability, better cooling and many options to tie cables

### UT3 CABLE TRAY



A traditional style cable tray suitable for a wide range of applications.

- Load Rating: 75kg/m at 2m spans
- Available in 150mm, 300mm, 450mm and 600mm widths with depth of 50mm
- Wide range of accessories and covers
- Onsite fabrication of bends and tees
- Finishes available: Galvabond (GB), TureGalv (TG) and Stainless Steel (SS)

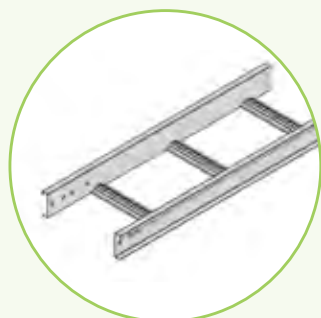
### VERGOKAN NEMA 1 CABLE LADDER



A NEMA 1 cable ladder system available in two side rail heights (60mm/VL60 and 85mm/VL85) and four cable laying width 150/300/450/600mm. Manufactured from light weight steel. The unique S profile side rail offers extra stability and firmness whilst maintaining cable ladder strength.

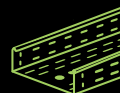
- Load Rating: 75kg/m (VL60) and 140kg/m (VL85) at 3m spans
- Cable laying width: 150/300/450/600mm
- Wide range of accessories and covers
- Tested to NEMA VE1 - 12AA for VL60

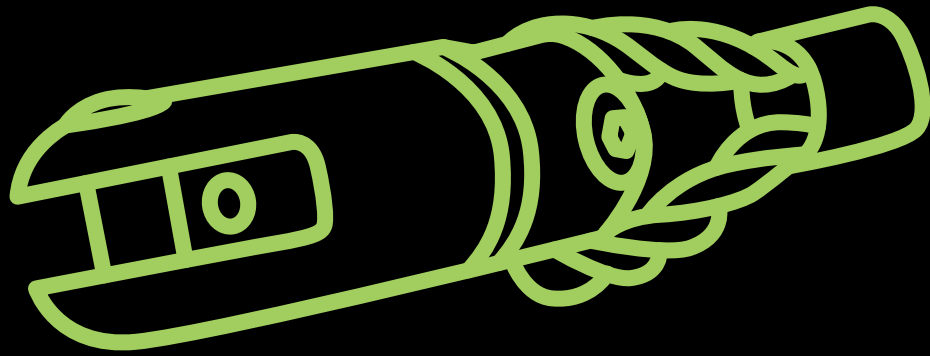
### 16A NEMA 2 CABLE LADDER



A heavy duty steel ladder with outward facing side rails designed for a wide range of applications

- Load Rating: 230Kg/m at 3m spans
- Cable laying width: 150/300/450/600mm
- Wide range of accessories and covers
- Tested to NEMA VE1
- Available in Hot Dipped Galvanised (GB) or Stainless Steel (SS)





# CABLE PULLING

Non-Metallic Aramid Cable Socks are ideal for use in fiber optic cable installation operations, offshore applications, or for a multitude of uses in the utilities industry.





#### ELECTRICAL CABLE PULLING SOCKS

Single Eye, Double Eye, Lace-up types  
With or without thimble eyes  
Galvanized / stainless or even Non-metallic material  
To suit Cable OD from 6mm – 115mm



#### OPTICAL FIBRE PULLING SOCKS

Single Eye  
Suitable for 12, 24, 48, 96, 144, 288 Fibre counts  
To suit cable OD 2.5mm – 19.0mm



#### SWIVELS

Standard Inline or Directional  
Working loads from 10kN to 66kN



#### C-CONNECTORS

Working loads from 10kN to 100kN



#### GUIDE ROLLERS

Standard Bridge Roller, Enclosure Edge Roller,  
Triple Corner Roller





NS TYPE - SINGLE EYE ARAMID CABLE SOCK



Single Eye Single Weave  
Non-Metallic Cable Sock



Single Eye Double Weave  
Non-Metallic Cable Sock

Part No.	Range		Lattice Length		Approx. Break Load	
	in	mm	in	mm	lb	kg
SINGLE EYE SINGLE WEAVE NON-METALLIC CABLE SOCK						
ZCS1040	0.38 - 0.75	10 - 20	21	552	2,460	1,115
ZCS1022	0.75 - 1.25	20 - 30	21	523	3,580	1,620
ZCS2923	1.00 - 1.50	25 - 38	23	573	3,580	1,620
ZCS1041	1.25 - 1.50	30 - 40	25	642	4,920	2,230
ZCS1042	1.50 - 2.00	40 - 50	19	485	5,820	2,640
SINGLE EYE DOUBLE WEAVE NON-METALLIC CABLE SOCK						
ZCS1023	1.25 - 1.50	30 - 40	25	642	9,860	4,470
ZCS1024	1.50 - 2.00	40 - 50	21	523	11,880	5,390
ZCS1179	2.00 - 2.50	50 - 65	25	636	15,900	7,210
ZCS1180	2.50 - 3.00	65 - 80	36	908	15,900	7,210
ZCS1181	3.00 - 4.00	80 - 100	40	1,029	15,900	7,210
ZCS4079	3.94 - 4.92	100 - 125	125	3,168	15,900	7,212
SINGLE EYE DOUBLE WEAVE HIGH STRENGTH NON-METALLIC SOCK						
ZCS13054	4.00 - 5.00	102 - 127	118	2,992	45,500	20,638

Part No.	Range		Colour Mode	Approx. Break Load	
	in	mm		lb	kg
ULTRA-FLEX SINGLE EYE DOUBLE WEAVE NON-METALLIC CABLE SOCK					
ZCS09336	0.63 - 0.75	16 - 19	Yellow	5,000	2,267
ZCS09337	0.75 - 1.00	19 - 25	Red	6,000	2,721
ZCS09338	1.00 - 1.25	25 - 32	Blue	6,000	2,721
ZCS09339	1.25 - 1.50	32 - 38	White	6,000	2,721

REEL LIFTER



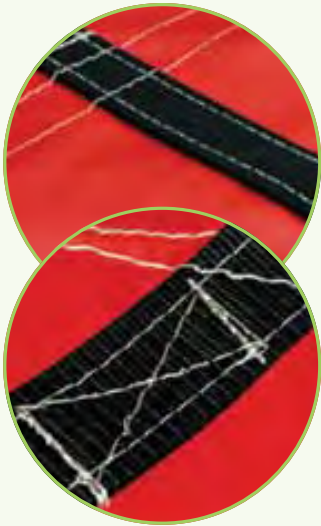
REEL LIFTER

Part No.	Arbor Hole Min.		Arbor Hole Max.		Capacity		Weight		Length	
	in	mm	in	mm	lb	kg	lb	kg	in	mm
ZLD08729	2	50.8	4	101.6	3,000	1360.78	6.50	2.95	16.125	409.6
ZLD09186	3	76.2	6	152.4	5,000	2267.96	14.50	6.58	21.125	536.6
ZLD10807	3	76.2	6	152.4	12,000	5443.11	32.5	14.74	30.5	774.7

REEL LIFTER REPAIR KIT

ZLD09708	1,360.78kg (3,000lb) factory repair kit with extension springs, cable assemblies and all necessary pins for replacement of the interior cable system. Suitable for ZLD08729.
ZLD09707	2,267.96kg (5,000lb) factory repair kit with extension springs, cable assemblies and all necessary pins for replacement of the interior cable system. Suitable for ZLD09186.

DIRT TARPS



Part No.	Tarp Dimensions		Maximum Capacity	
	ft	m	lb	kg
ZLD10015	10 x 10	3 x 3	5,000	2,267
ZLD10016	8 x 8	2.44 x 2.44	5,000	2,267
ZLD10793	7 x 7	2.13 x 2.13	4,000	1,814
ZLD10792	6 x 6	1.83 x 1.83	4,000	1,814



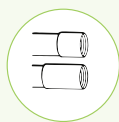
# **STEEL CONDUIT**



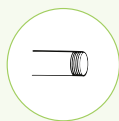




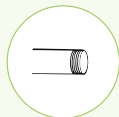
## THREADED CONDUIT



**(GAL) Galvanized Threaded Conduit**  
Australian Made



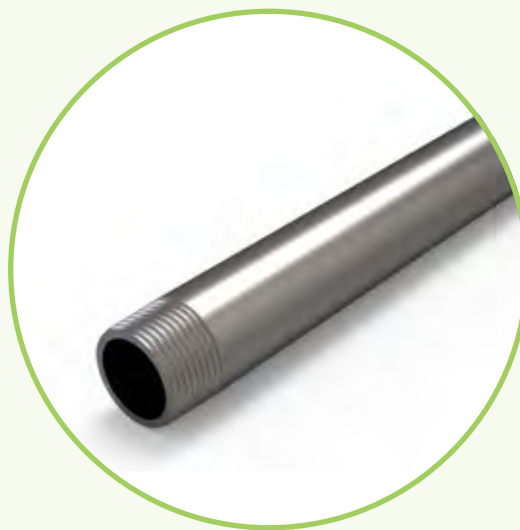
**(HDG) Hot Dipped Galvanised**  
Australian Made



**(HDG) Hot Dipped Galvanised**  
Imported



**Powder Coated Threaded Conduit**  
Australian Made



(GAL) Galvanized Threaded Conduit  
Australian made, supplied with coupling  
Standard 4 meter lengths, both ends threaded  
Class 3 HD - Manufactured to AS/NZ2053.7  
Galv to AS/NZ1397-2001

## THREADED FITTINGS



**Threaded Coupling**



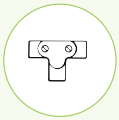
**Threaded Sweep Bends**  
90 Degrees



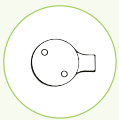
**Threaded Solid Elbow**  
90 Degrees



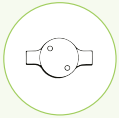
**Threaded Inspection Elbow**



**Threaded Inspection Tee**



**Threaded 1 Way Junction Box**



**Threaded 2 Way Junction Box**



**Threaded 3 Way Junction Box**



**Threaded 4 Way Junction Box**



**Threaded Angled Junction Box**



**Zinc Plated Threaded Nipple**



**Threaded Reducer Zinc**



**Threaded Hex Plugs Gal**



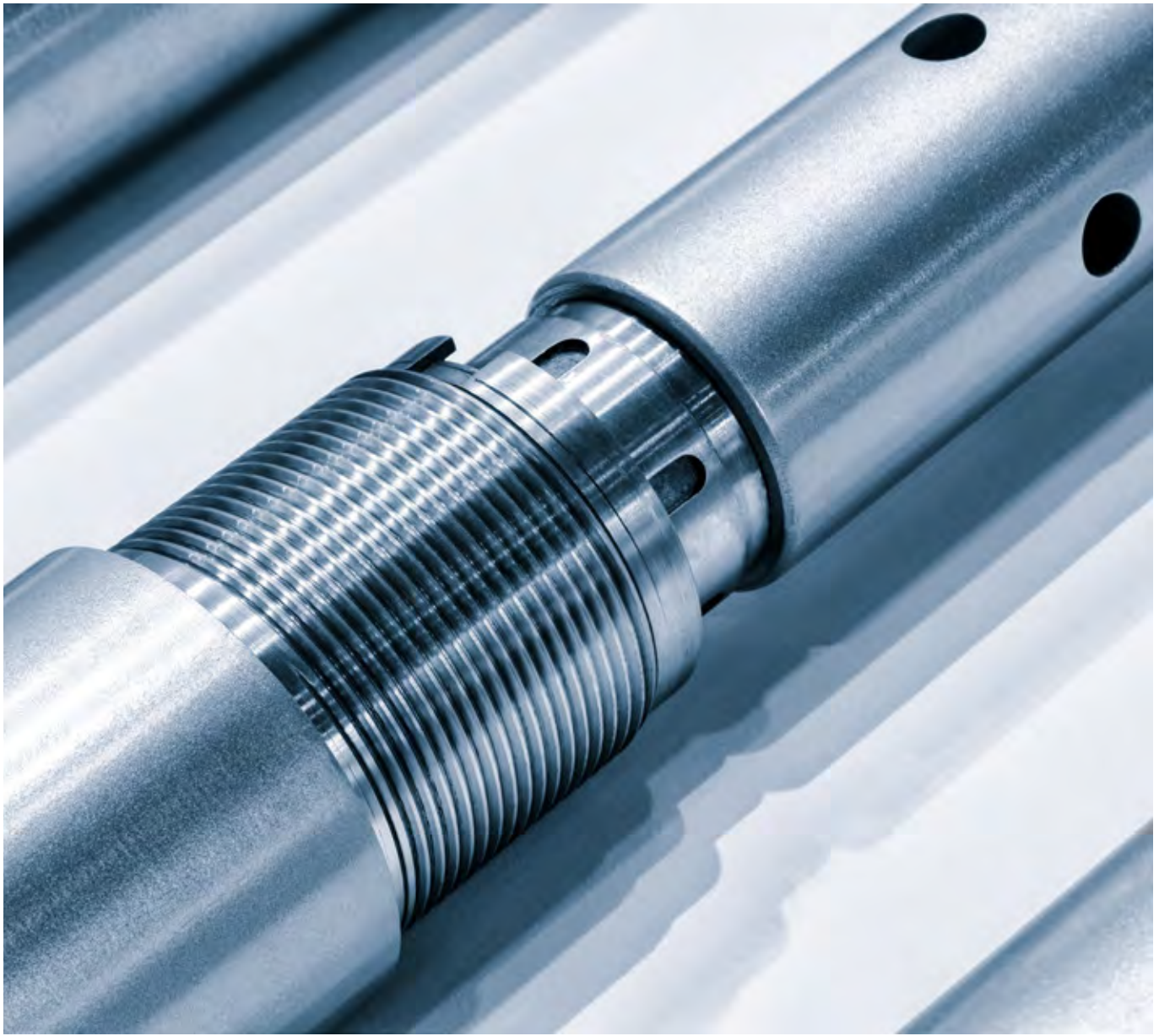
**Threaded Barrel Unions**



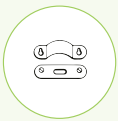
**Threaded Brass Male Bushes**



**Threaded Dome Cover**



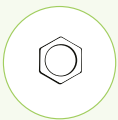
**THREADED  
SADDLES, LOCK RINGS, END CAPS**



**Spacer Saddles**



**Distance Saddles**



**Zinc Plated Threaded Locknut**



**Zinc Plated Lock Rings**



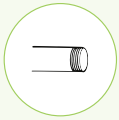
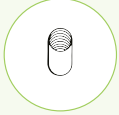
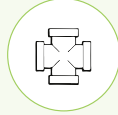
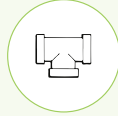
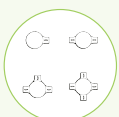
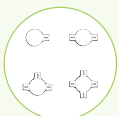
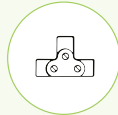
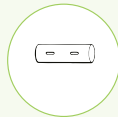
**Threaded Plastic End Caps**



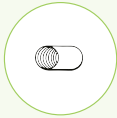
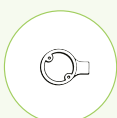
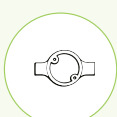
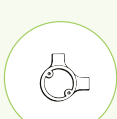
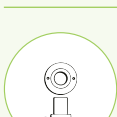
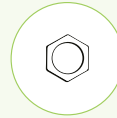
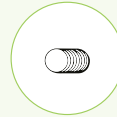
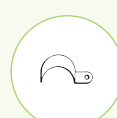
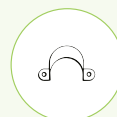
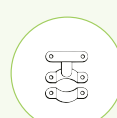
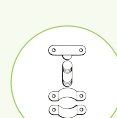
**Zinc Saddles**  
Available Until Sold Out

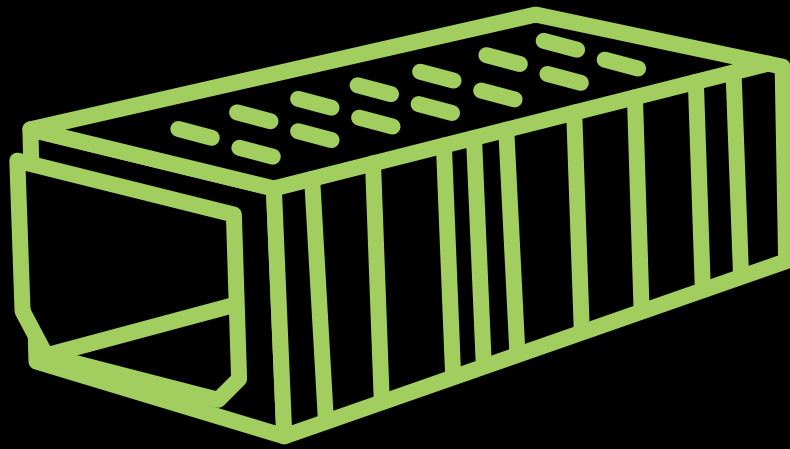


**HDG Saddles (Hot Dipped Galvanised)**

**RIGID NOMINAL BORE  
CONDUIT & FITTINGS****Rigid NB-HDG Threaded Conduit**  
Australian Made**Rigid NB-HDG Couplings****Rigid NB-HDG Solid 90 Degree Bend****Rigid NB-HDG Lock Nut****Rigid NB-HDG Elbow****v NB-HDG Reducing Sockets****Rigid NB-HDG Nipple****Rigid NB-HDG Cross****Rigid NB-HDG Tee****Rigid NB-HDG End Cap****Rigid NB-HDG Barrel Union****LOCFIT  
CONDUIT & FITTINGS****Locfit Galvanised Conduit****Nominal Bore Locfit Conduit****Locfit Conduit Fitting 20mm Junction Box****Locfit Conduit Fitting 25mm Junction Box****Locfit Conduit Fitting Inspection Tee****Locfit Conduit Fitting Inspection Elbow****Locfit Conduit Couplings**



**STAINLESS STEEL  
CONDUIT & FITTINGS****Stainless Steel Threaded Conduit**  
Per 3 mtr & 6 mtr Length**Stainless Steel Plain Threaded Coupling**  
1.5mm Thread Pitch  
SM – Specially Manufactured.  
Non Refundable**Stainless Steel Plain Bends**  
1.5mm Thread Pitch**Stainless Steel Inspection Elbow****Stainless Steel Inspection Tee****Stainless Steel 1 Way Junction Box****Stainless Steel 2 Way Junction Box****Stainless Steel Angled Junction Box****Stainless Steel 3 Way Junction Box****Stainless Steel 4 Way Junction Box****Stainless Steel Pendant Plate****Stainless Steel Locknut****Stainless Steel Threaded Nipple****Stainless Steel Threaded Reducer.**  
SM - Specially Manufactured  
Non-Refundable**Stainless Steel Saddle****Stainless Steel Half Saddles - 316 Grade**  
304 Grade Available Until Sold Out**Stainless Steel Half Saddles - 316 Grade**  
304 Grade Available Until Sold Out**Stainless Steel Munson Ring**  
30mm Drop**Stainless Steel Munson Ring**  
50mm Drop**Stainless Steel Munson Ring**  
75mm Drop**Stainless Steel Lock Ring**  
SM - Specially Manufactured.  
Non-Refundable**Stainless Steel Universal Enclosure**



# TUFDUCT

A fully engineered, non-conductive elevated ducting system, TESS (TufMate Elevated Support System), especially suited to the unique conditions of Australia's Railway Networks. Traditionally used as ground troughing.





# TufDuct

## BENEFITS

The benefits of TufDuct and TESS (TufMate Elevated Support System) over traditional raised GST are:

- NOT a conductor of electricity
- Made from 100% recycled plastic
- 100 yr. design life
- Thermal properties of concrete
- Material cost and installation cost reduction

## HISTORY

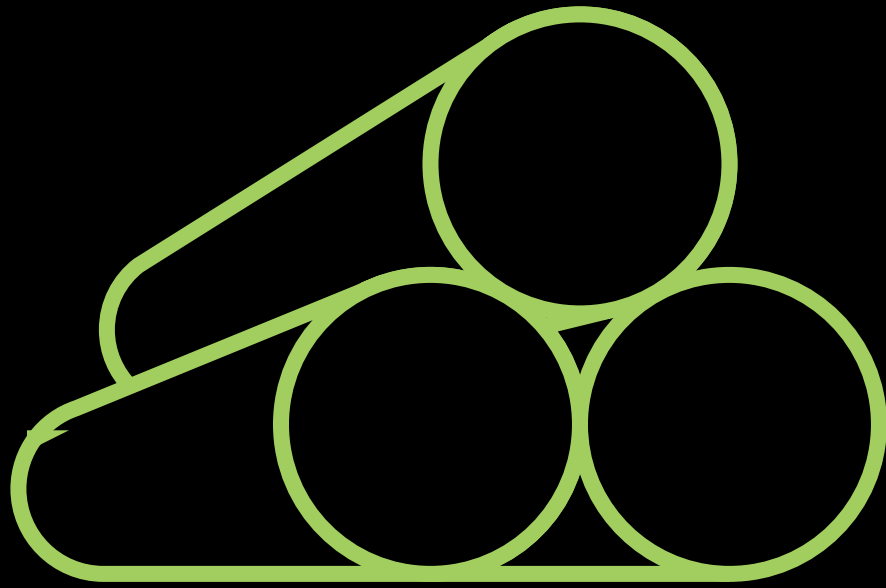
- TESS (TufMate Elevated Support System) is the carrier for the TufDuct units which utilise Wagners CFT to both elevate and position the system. The application is composed of 100% composite materials with a 100 year design life. The speed of installation of TESS is second to none, and just one of the many benefits over the conventional legacy solutions.
- Wagners CFT (Wagners Composite Fibre Technologies) is a diversified Australian company that was established in Toowoomba QLD. Their lightweight composite material is manufactured locally in QLD and exported worldwide.
- TufDuct is made from 100% recycled post-consumer plastic waste. TufDuct is also halogen free, fire resistant, environmentally friendly and supported by a full international EPD (Environmental Product Declaration)



Available in a wide range of sizes with internal capacity ranging from 9,000mm<sup>2</sup> to 114,750mm<sup>2</sup>

Series	Width Internal	Height Internal	Width External	Height External	Length mm	Weight Total KG	Weight Base KG	Weight Lid KG	Internal Capacity
90	90	100	120	136	1000	7	4	3	9000mm <sup>2</sup>
135	135	125	170	170	1000	10	6	4	16,875mm <sup>2</sup>
150	150	135	210	190	1000	13	8	5	21,600mm <sup>2</sup>
200	200	185	270	255	1000	21	14	7	37,000mm <sup>2</sup>
300	300	175	390	265	1000	27	16	11	52,500mm <sup>2</sup>
430	430	255	540	360	500	24	15	9	114,750mm <sup>2</sup>





# PE PIPE





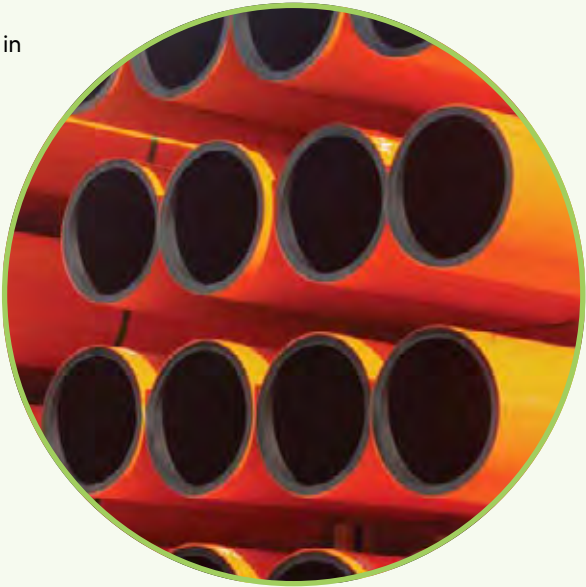
ABOUT PE PIPE

UCS can supply Polyethylene (PE) pipe to the telecommunication and electrical industries to protect their vital network of cables that transmit information throughout Australia and worldwide.

This pipe withstands high tensile loads applied during underboring and tolerates the crushing pressures that accompany being installed underground.

Joining of conduits is made easy by the use of thermal or electrofusion welding techniques. Standard compression fittings used for metric poly pressure pipes are also suitable.

All PE Communications Conduits and Subducts are made in continuous lengths that allow customers to order custom coil lengths. Poly Pipe cable is supplied in coils or lengths and manufactured using only quality PE100 materials to Australian Standard 1159.













INDUSTRY APPLICATIONS

- Telecommunications
- Electrical
- Mining
- Water
- Gas
- Air
- Irrigation
- Sewerage & Drainage
- Civil Applications

BENEFITS OF PE PIPE

- Long lengths
- Cost effectiveness
- Easy installation
- Flexibility & resilience
- Chemical resistance
- Corrosion resistance
- Abrasion resistance
- High flow capacity
- Weathering resistance
- Durability
- High impact resistance

STANDARD PIPE COLOURS

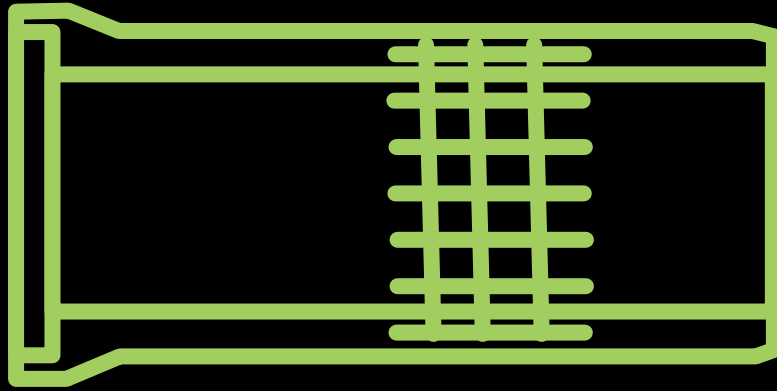
				
BLUE	YELLOW	RED	PURPLE	CREAM
				
ORANGE	LIGHT YELLOW	GREEN	GREY	WHITE



## DIMENSIONS

Nom Size	Outside Diameter		Inside Diameter		Wall Thickness		Ovality	WT/MT	IF Strip - Min width
	Min	Max	Min	Max	Min	Max			
25mm 9	25.00	25.30	20.00	21.10	2.10	2.50	0.75	0.16	1.5
32mm 6	32.00	32.30	27.60	28.50	1.90	2.20	0.96	0.19	1.9
32mm 9	32.00	32.30	25.80	26.90	2.70	3.10	0.96	0.26	1.9
40mm 6	40.00	40.40	34.60	35.80	2.30	2.70	1.20	0.29	2.4
40mm 9	40.00	40.40	32.20	33.60	3.40	3.90	1.20	0.40	2.4
50mm 6	50.00	50.40	43.40	44.60	2.90	3.30	1.50	0.44	2.9
50mm 9	50.00	50.40	40.40	42.00	4.20	4.80	1.50	0.62	2.9
63mm 9	63.00	63.50	51.00	52.90	5.30	6.00	1.89	0.98	3.7
110mm 6	110.00	110.90	95.80	98.30	6.30	7.10	3.30	2.10	6.5
110mm 9	110.00	110.90	89.40	92.50	9.20	10.30	3.30	2.96	6.5
125mm 9	125.00	126.00	101.80	105.20	10.40	11.60	3.75	3.80	7.4
140mm 9	140.00	141.20	114.00	117.80	11.70	13.00	4.20	4.78	8.2
160mm 6	160.00	161.30	0.00	0.00	9.20	10.30	4.80	4.44	9.4
160mm 9	160.00	161.30	0.00	0.00	13.40	14.90	4.80	6.26	9.4
200mm 6	200.00	201.60	0.00	0.00	11.50	12.80	6.00	6.92	11.8
200mm 9	200.00	201.60	0.00	0.00	16.70	18.50	6.00	9.73	11.8
225mm 6	255.00	226.80	0.00	0.00	12.90	14.30	6.75	8.71	13.3
225mm 9	255.00	226.80	0.00	0.00	18.80	20.80	6.75	12.31	13.3
250mm 6	250.00	252.00	0.00	0.00	14.30	15.90	7.50	10.73	14.7
250mm 9	250.00	252.00	0.00	0.00	20.90	23.10	7.50	15.20	14.7
280mm 6	280.00	282.30	0.00	0.00	16.00	17.70	8.40	13.44	11.0
280mm 9	280.00	282.30	0.00	0.00	23.40	25.90	8.40	19.08	11.0
315mm 6	315.00	317.60	0.00	0.00	18.00	19.90	9.45	17.00	12.4
315mm 9	315.00	317.60	0.00	0.00	26.30	29.10	9.45	24.12	12.4
355mm 6	355.00	357.90	0.00	0.00	20.30	22.50	10.65	21.63	13.9
355mm 9	355.00	357.90	0.00	0.00	29.60	32.70	10.65	30.58	13.9
400mm 6	400.00	403.20	0.00	0.00	22.90	25.30	12.00	27.45	15.7
400mm 9	400.00	403.20	0.00	0.00	33.30	36.80	12.00	38.77	15.7





# REINFORCED CONCRETE

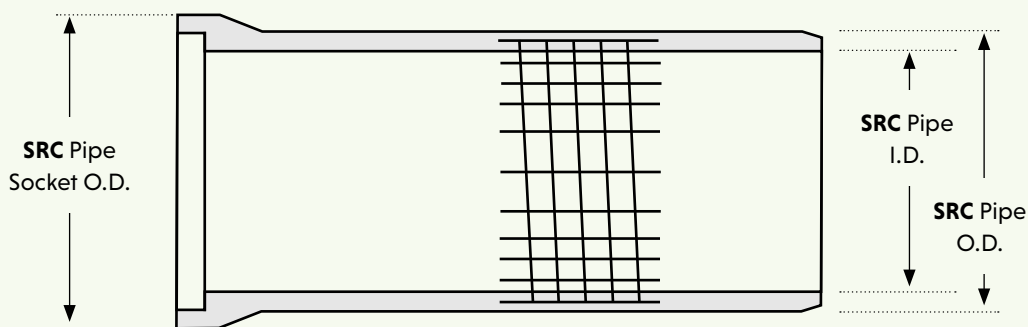




### ABOUT REINFORCED CONCRETE

- Rapid production rates
- Pipes comply with AS/NZS 4058:2007
- Precision Manufacturing technology
- Low impact and sustainable process

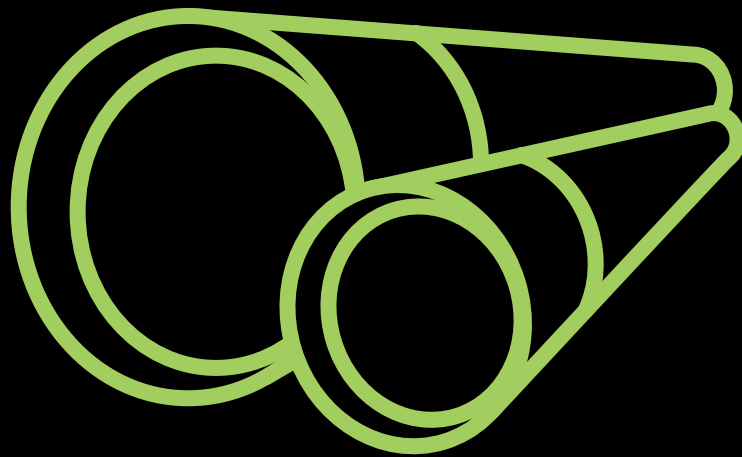
### RUBBER RING JOINT



Nom. ID (mm)	Pipe ID (mm)	Socket OD (mm)	Pipe OD (mm)			Weight (kg)		
			Class 2	Class 3	Class 4	Class 2	Class 3	Class 4
375	370	546	-	-	449	-	-	330
450	445	643	-	-	540	-	-	490
525	520	734	621	621	621	600	600	610
600	595	825	700	700	700	720	720	730
675	670	913	781	781	781	850	850	860
750	745	1004	870	870	870	1040	1040	1050
825	820	1093	951	951	951	1190	1200	1210
900	895	1184	1038	1038	1038	1410	1420	1450
1050	1045	1345	1186	1186	1186	1650	1690	1720
1200	1195	1493	1400	1400	1400	2600	2640	2680
1350	1345	1690	1570	1570	1570	3150	3180	3200
1500	1495	1910	1730	1730	1730	3800	3820	3880
1650	1645	2055	1840	n/a	n/a	3650	n/a	n/a
1800	1795	2226	1996	n/a	n/a	4180	n/a	n/a
2100	2095	2556	2300	n/a	n/a	5020	n/a	n/a

- Dimensions & weights subject to change
- Effective length - 2340mm
- Rubber rings supplied with all pipes
- Other classes available on request

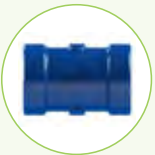
- Pipes listed above conform with AS/NZS 4058:2007 for normal environment exposure conditions
- Pipes DN375-DN1050 produced at Somersby NSW
- Pipes DN1200-DN2100 produced at Thornton NSW
- Marine environment pipes available on request

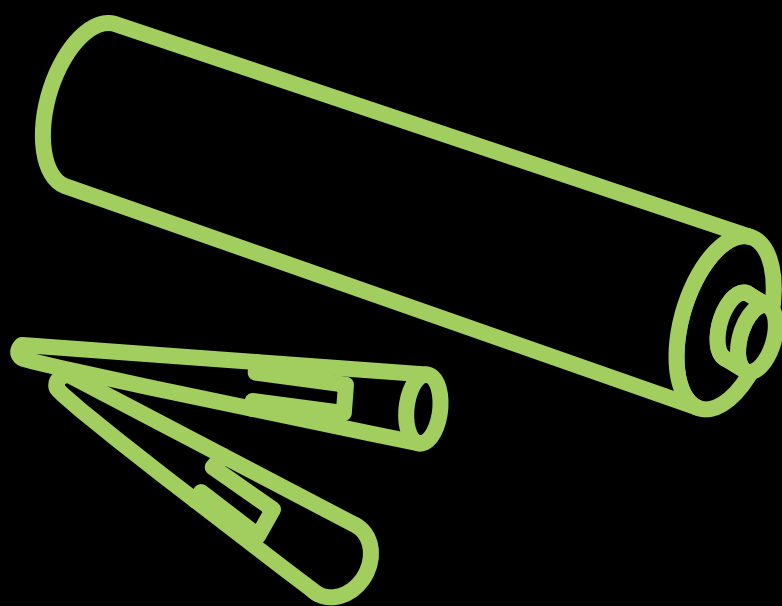


# **DICL PIPE & FITTINGS**





**Pipe****PE Puddle Flanges****Bends****Flanged Offtakes****Bellmouth****PreTap Connectors****Caps****Tapers****Connectors****Tees/Scour Tees****Crosses****Thrust Connectors****Giboults****Hydrant/Washout Bends****Hydrant Risers****Wye Junctions**



# ACCESSORIES/CONSUMABLES





EMS MARKER BALL



FILOSEAL



MASTIC



PRE FILLED SAND BAGS

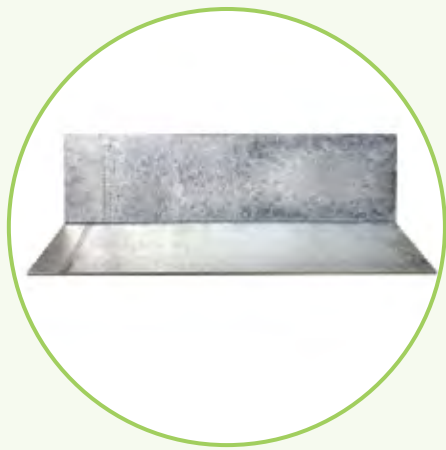


WD40, SILVER GAL &amp; MARKER PAINT



FORMATUBE





STEEL PLATES



LUBRICANT



TYPE 2 RAGBOLTS



HAULING EQUIPMENT

Pressure Gun	Rope	Balloon Liner
--------------	------	---------------



CABLE COVER

300mm x 1200mm strips	200mm x 25mtr roll
1500mm x 25mtr roll	300mm x 20mtr roll



PVC END CAPS 20MM - 1500MM

Heavy Duty Orange
Communications White



DUST CAPS 32MM - 150MM

Black

Red



PIT LIFTERS



DANGER MARKER TAPE & DETECTABLE TAPE

For all Utilities



PIPE CEMENT/PVC GLUE

500mL

1L

4L



CONDUIT CLEANERS

500mm up to 200mm



MANDRELS

500mm up to 200mm

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