

Cable Protection Systems



A complete cable protection system for almost any application:

- Power
- Motorway comms
- Lighting
- Utilities
- UPVC specification
- General purpose
- Installation advice



Frequently asked questions

1. Is all cable protection the same?

No. There is high quality cable protection ranging from Rigiduct, through Suretwin to lower quality General Purpose duct.

2. Would you recommend general purpose duct?

Depending on the installation, general purpose ducting can be a cost effective solution, however general purpose ducting does not have any specification, so for more critical applications a higher quality system should be used.

3. The spec says PVC cable protection, can I use Twinwall?

Most probably, PVC tends to be used as a generic term for plastic, there are high quality PVC cable protection, most Twinwall cable protection, including Rigiduct and Suretwin are on a par with the higher specification PVC cable protection.

4. Do you make a full range of colours?

Yes, please refer to the following pages.

5. What are the common sizes for access boxes?

290mm x 275mm, 300mm x 450mm, 450mm x 450mm, 450mm x 600mm, 600mm x 600mm, 290mm x 275mm and 450mm x 450mm pole boxes. All in single, double or triple height units.

6. Do you supply covers and frames to suit?

Yes, composite and non locking, galvanised steel and ductile iron.

7. Can I install cable protection in a road?

Yes, provided there is suitable cover or adequate protection is given to the cable protection.

8. Are there any installation details for access boxes?

Yes, please refer to the following pages.

9. Is there any other manufacturer who makes both cable protection systems, access boxes, or who has a product range as extensive?

No.

Cable Protection Systems



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The Polypipe Civils cable protection range of products are independently certified to British and European standards where required and have been used extensively for highways, housing developments, commercial projects, retail and industrial infrastructure applications. **With a proven tried and tested range of over 1000 individual products and sizes to choose from, Polypipe Civils provides ground workers and contractors with a complete cable protection system for almost any application.**

Ridgiduct power



Key benefits

- A preferred choice of regional electricity companies
- Low weight, flexible, durable and high strength
- Good impact resistance, even at low temperatures
- BBA approved and complies with BS EN 50086-2-4 and ENATS
- Available in an alternative twin wall split duct form for easy installation around existing cables with minimal change in strength

ENATS
(12-24)



Ridgiduct power

Ridgiduct is a twin wall system, specifically engineered to provide a light, yet robust alternative to conventional cable protection. Ridgiduct is manufactured in HDPE and the resulting stiff, yet flexible twin wall structure easily outperforms alternative products. Complementing the Ridgiduct range are a selection of twin wall long radius drawn bends, manufactured in HDPE. These are available in most sizes and a range of angles.

Ridgiduct for ENATS

Polypipe Civils is the UK's leading supplier to the power utilities. Ridgiduct Power 100, 125 and 150mm a class 2 product complies fully with the electrical supply industry specification for cable protection, ENATS. Ridgiduct has been independently tested and certified by the BBA to ENATS.

Ridgiduct Power ENATS 12-24 (Standard sizes)

ID mm	OD mm	Length m	Code	Pack Qty
100	118	2	RB7100X2	85
125	148	2	RB125X2	46
150	178	2	RB150X2	36
100	118	3	RB7100X3	85
125	148	3	RB125X3	46
150	178	3	RB150X3	36
100	118	6	RB7100X6	85
125	148	6	RB125X6	46
150	178	6	RB150X6	36

Ridgiduct Power ENATS (Non-standard sizes)

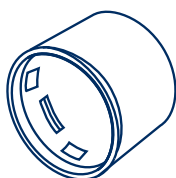
ID mm	OD mm	Length m	Code	Pack Qty
94	110	94	RB94X6	95

Printed Electrical Cable Duct.

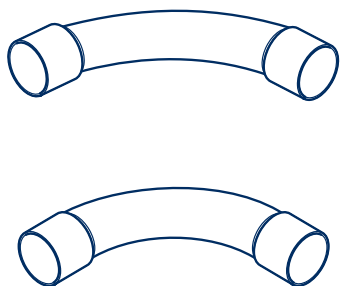
Ridgiduct Fittings

Description	Length mm	Code	Pack Qty
Black coupling	94	RBC94	10
Black coupling	100	RBC100	10
Black coupling	125	RBC125	10
Black coupling	150	RBC150	10

Note: 94, 100, and 150mm are also available as a sealed system if manufactured as plain ended, supplied with couplers and seals. Subject to minimum order quantity.



Ridgiduct power



Ridgiduct Bends				
Description	OD m	Angle°	Code	Pack Qty
uPVC Double Socket Bend 100mm	2.4	11.25	RBB10011X2.4	1
	2.4	22.5	RBB10022X2.4	1
	0.45	45	RBB10045X0.45	1
	0.45	90	RBB10090X0.45	1
uPVC Double Socket Bend 125mm	2.4	11.25	RBB125X11X2.4	1
	2.4	22.5	RBB125X22X2.4	1
	0.61	45	RBB125X45X0.61	1
	0.61	90	RBB125X90X0.61	1
uPVC Double Socket Bend 150mm	2.4	11.25	RBB150X11X2.4	1
	2.4	22.5	RBB150X22X2.4	1
	0.61	45	RBB150X45X0.61	1
	0.61	90	RBB150X90X0.61	1

Sealed Ridgiduct bends are available for 100 & 150mm duct.

Ridgicoil Power

Ridgicoil is coiled twin wall cable protection, its flexibility eliminates the need for special bends.

Ridgicoil Power Duct			
OD mm	ID mm	Length m	Code
40	31	50	RC40X50BE
50	40	50	RC50X50BE
63	50	50	RC63X50BE
75	60	50	RC75X50BE
90	71	50	RC90X50BE
110	94	50	RC110X50BE
160	140	25	RC160X25BE

Printed Electrical Cable Duct.



Polyduct Power				
ID mm	OD mm	Length m	Code	Pack Qty
32	37	100	PD3237X100BEPE	1
38	44	100	PD3844X100BEPE	1
50	60	50	PD5060X50BEPE	1

25m and 50m coils available.

Polyduct Power

Polyduct is manufactured in MDPE or HDPE and is a class 3 product which is available in both straight lengths and coils. It can be used for either open trench or trenchless applications.



ENATS
(12-24)

Key benefits

Polyduct:

- High impact
- Ease of use and transportation
- Flexibility of coiled duct eliminating the need for special bends
- Exceptional durability
- Can be used for trenchless applications
- Meets ENATS requirements

Mole Duct		
Diameter	Length m	Code
50	1.5/3	PVO37X1.5E
75	1.5	PVO45X1.5E
89	1.5	PVO55X1.5E

Mole Duct

Single wall PVC black duct for trenchless applications.

Ridgiduct power

Key benefits

PVC Duct:

- Full range of fittings available
- Bend radius information required to quote
- 6m lengths as standard (other lengths available on request)
- Standard markings - Electrical Cable Duct (other markings available on request)

PVC Duct				
OD mm	ID mm	Length m	Colour	Code
UNSEALED				
40	110	6	Black	SD7110X6BNS
50	125	6	Black	SD7125X6BNS
63	160	6	Black	SD7160X6BNS
75	110	6	Red	SD7110X6RNS
90	125	6	Red	SD7125X6RNS
110	160	6	Red	SD7160X6RNS
SEALED				
40	110	6	Black	SD7110X6BSPE UG402B
50	160	6	Black	SD7160X6BSPE UG402B
63	110	6	Red	SD7110X6RSPE UG404B
110	160	6	Red	SD7160X6RNS UG402B

All sizes are available in uPVC and Polyethylene.

PVC Duct

Polypipe class 1 PVC duct is designed to meet ENATS 12-24 and the standards set by the Regional Electricity companies. This product gives you a viable option to the use of Ridgiduct when necessary and both systems can be used in high, medium and low voltage applications.



Ridgiduct Power Split Duct			
ID mm	Length m	Code	Pack Qty
100	1	RB100X1S	85
125	1	RB125X1S	46
150	1	RB150X1S	36
100*	2	RB100X2S	85
125*	2	RB125X2S	46
150*	2	RB150X2S	36
100*	3	RB100X3S	85
125*	3	RB125X3S	46
150*	3	RB150X3S	36

*Made to order

Ridgiduct power split duct

Ridgiduct Power Split Duct is mainly used for ducting existing cables.



Motorway Comms

Ridgiduct comms

Polypipe Civils is able to offer Ridgiduct Comms 94, 100 and 150mm as a sealed system specifically designed for motorway communications applications. Ridgiduct is fully integrated with Polypipe access boxes. (Refer to Lighting section).

Key benefits

- Type 450, normal duty
- IP47 rated sealed system
- BBA certified as a fully sealed system
- Certified to BS EN 50086-2-4 and meets the requirements of MCHW 1530
- Print options available
- Available in 6 and 12m lengths to minimise the number of joints



Couplers & Seals

ID mm	Coupler Code	Seal Code
94	CRD94	SRD94
100	CRD100	SRD100
150	CRD150	SRD150

1 coupler & 2 seals per joint.

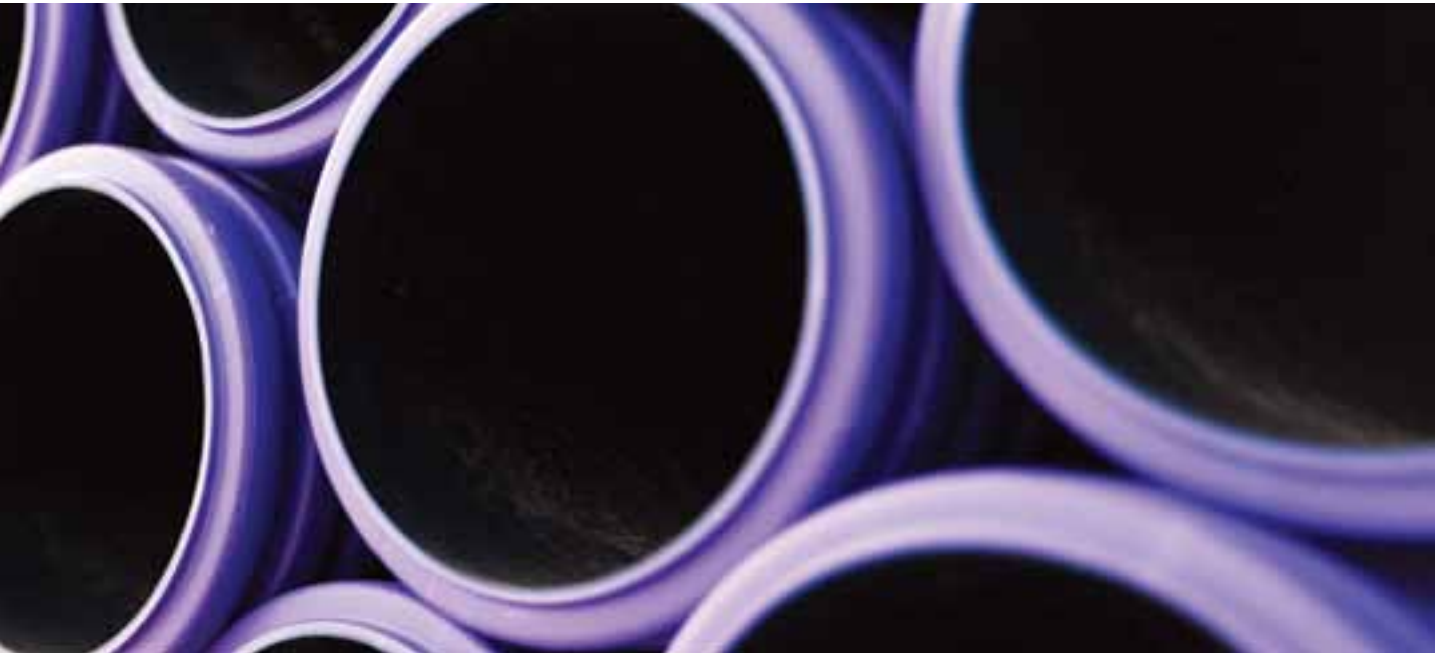


Ridgiduct Motorway Comms

ID mm	Length m	Code	Pack Qty
94	6	RB94X6PMCPPE	95
100	6	RB100X6PMCPPE	85
150	6	RB150X6PMCPPE	65
94	9	RB94X9PMCPPE	60
100	9	RB100X9PMCPPE	60

Conforms to Highways Agency Specification for sealed systems. For Scottish market printed Motorway Comms/Power. Also available in black. Please contact us for further information. Other print options available. Please state requirements when ordering.





Duct Spacers			
Description	Duct ID	Code	Pack Qty
2 way Duct Spacer (to suit 110mm O.D.)	94	RBS110x2	50
4 way Duct Spacer (to suit 110mm O.D.)	94	RBS110x4	25
6 way Duct Spacer (to suit 110mm O.D.)	94	RBS110x6	12
2 way Duct Spacer (to suit 118mm O.D.)	100	RBS118x2	50
4 way Duct Spacer (to suit 118mm O.D.)	100	RBS118x4	25
6 way Duct Spacer (to suit 118mm O.D.)	100	RBS118x6	12

Note: Highways Agency requires 1 per metre.

Duct spacers

High quality injection moulded spacers are available to secure multiple installations of all 94 and 100mm diameter ducts.

The unique modular designs enables multiple configurations to be assembled. Duct spacers comply with the requirements of MCHW 1530.



Motorway Comms

Key benefits

- IP47 rated sealed system
- Two part plug allows for rapid fitting, both new and retrofit
- Integral air test valve
- Design resists ejection from the cable protection
- All 4 ports can be utilised by the use of an additional draw cord bracket



Comtite			
Description	Code	Pack Qty	
94mm plug	DP94	40	
100mm plug	DP100	40	
Blanking grommet with rope attachment point	DPGO	10	
9mm grommet	DPG9	10	
12mm grommet	DPG12	10	
14mm grommet	DPG14	10	
16mm grommet	DPG16	10	
18mm grommet	DPG18	10	
21mm grommet	DPG21	10	
24mm grommet	DPG24	10	
27mm grommet	DPG27	10	
4x9mm grommet	DPG9x4	10	
7x9mm grommet	DPG9x7	10	
L-bracket for rope attachment	DPRAB	10	

4 grommets required per plug. In order to achieve a sealed plug, use a blanking grommet where cable grommet is not required. Patent pending.

Comtite transit systems

Comtite cable protection plugs, when used in conjunction with the insertable cable grommets, ensures full compliance with the requirements of Series 1530 of the Highways Agency Specification for Highway Works and is the only transit system accredited by the BBA for motorway comms. When used with Ridgiduct it completes a certified sealed system.



Ridgicoil Motorway Comms

OD mm	ID mm	Length m	Code
63	50	50	RC63X50PMCP
110	94	50	RC110X50PMCP



Ridgicoil comms

Ridgicoil is coiled twin wall cable protection, its flexibility eliminates the need for special bends and the smooth bore has a low co-efficient of friction for ease of cable installation.

Key benefits

- Compliance with BS EN50086-2-4: Type 450N, normal duty impact resistance
- Manufactured in polyethylene with excellent impact resistance at low temperatures
- Long coil lengths for reduced jointing
- Factory installed draw cord and coupling
- Optional sealing rings for sealed system
- Low weight, high strength

Draw Cord

Description	Pallet Qty	Code	Pack Qty
6mm Dia. x 220m	160	DC220	240
6mm Dia. x 500m (wooden drum)	72	DC500	108



Draw Cord

Manufactured from high quality polypropylene to a nominal breaking strength of 5kN.

SPECIAL NOTE FOR APPLICATIONS SUBJECT TO HIGHWAYS AGENCY REQUIREMENTS

It should be noted that a number of versions of the Manual of Contract Documents for Highway Works are in use and individual contracts can be subject to substantial variation. Suitability should always be checked with the overseeing organisation. Products selected should be BBA approved or meet the requirements of Table 5/2 unless exceptional requirements demand an alternative. It should also be noted that there are differences between requirements for ducts in Series 500 and 1500 of the Specification for Highway Works.

Lighting Ridgiduct and Polyduct

Key benefits

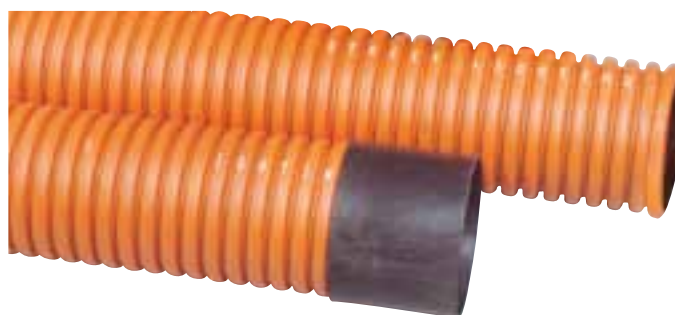
- Impact resistance, even at low temperatures
- BBA approved and complies with BS EN 50086-2-4
- Flexible in application, with a minimal requirement for special bends
- Available with print options for traffic signals and street lighting



Ridgiduct Lighting				
Nom. Size	OD mm	Length m	Code	Pack Qty
94	110	6	RB94X6O(SL or TS)	95
100	118	6	RB100X6O(SL or TS)	85
150	178	6	RB150X6O(SL or TS)	36

Ridgiduct lighting

Ridgiduct lighting is a twin wall low weight flexible cable protection system, specifically manufactured in orange for use in street lighting and traffic signals applications. A full range of access and junction boxes, bends, reducers and adaptors completes the system.



Polyduct Lighting					
OD mm	ID mm	Wall Thickness	Length m	Code	Pack Qty
60	50	5	6	PD5060X6O(TS or SL)	250
63	56	3.5	6	PD5663X6O(TS or SL)	250
100	97	3.5	6	PD97100X6O(TS or SL)	85
107	97	5	6	PD97107X6O(TS or SL)	85

Available with street lighting or traffic signal print. Please specify with order.

Polyduct lighting

Polyduct lighting is a single wall alternative to twin wall cable protection. Manufactured in orange MDPE or HDPE. It can be used in either open trench or trenchless applications.

Ridgicoil Lighting			
OD mm	ID mm	Length m	Code
63	50	50	RC63X50O(SL or TS)
110	94	50	RC110X50O(SL or TS)

Ridgicoil lighting

Ridgicoil's flexibility eliminates the need for special bends and the smooth bore has a low co-efficient of friction for ease of cable installation.



Key benefits

- Compliance with BS EN 50086-2-4: Type 450N, normal duty impact resistance
- Long coil lengths for reduced jointing
- Factory installed draw cord and coupling

Lighting in Scotland

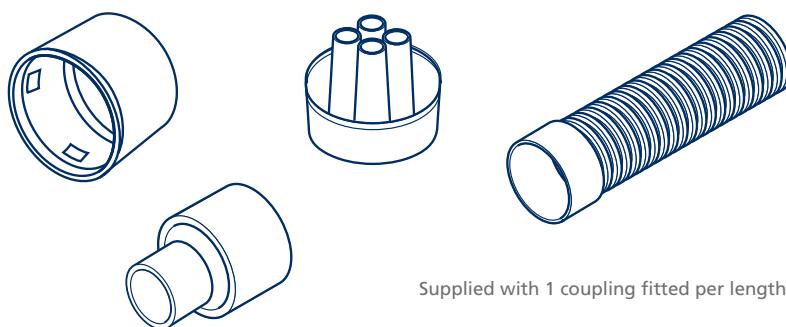
Lighting in Scotland			
Description	Size	ID mm	Code
40m coil	100	90	SSL100X40P

Purple as standard. Other colours available on request. Minimum order 50 coils.

Lighting in Scotland

Lighting in Scotland has specific requirements and for this purpose Polypipe Civils manufacture a single wall cable protection range.

Scottish Lighting Purple Cable Protection & Fittings			
Description	Size mm	ID mm	Code
SINGLE WALL CORRUGATED			
100m coil	60	53	SSL60X100P
40m coil	100	90	SSL100X40P
JUNCTION BOXES			
	100		SSLJB100
CONNECTORS			
	60		SSLC60
	100		SSLC100
REDUCERS			
Slotted	100 x x60		SSLR100X60Slot
Unslotted	100 x 60		SSLR100X60



Access boxes



Access Boxes						
Code	Description	Box Opening*mm	External mm			
		Height mm	Width	Depth	Width	Depth
AC2902751	290 x 275 Single Unit	320	325	310	390	375
AC4503001	450 x 300 Single Unit	320	485	335	550	400
AC4504501	450 x 450 Single Unit	320	470	470	550	550
AC6004501	600 x 450 Single Unit	320	635	485	700	550
AC6006001	600 x 600 Single Unit	320	635	635	700	700

* The clear opening for boxes is greater than the clear opening for frames.
See the relevant tables for details of clear openings of frames.

Key benefits

- Robust, single-piece injection or rotational mouldings
- High strength, structured wall construction
- Manufactured in impact resistant polyethylene for installation in all conditions
- Corrosion free and chemical resistant material
- Ultraviolet light resistant material, suitable for extended storage periods
- Light, easy to handle, transport and install
- Modular construction, allowing access boxes to be used as rising sections as required
- Pre-trepanned points of entry to accommodate 54, 63, 110 and 118mm outside diameter ducting, covering the full range of products in the industry
- Can also be stacked

Lighting pole boxes, covers, frames

Pole boxes

The range of 4 pole boxes is available in 290 x 275mm and 450 x 450mm sizes, incorporating integral housings for 114 and 140mm poles and are manufactured from polyethylene. The pole box provides 450mm depth of cover as standard, extendable if required using modular access boxes as rising sections.

Pole Boxes							
Code	Description	Height	Box Opening*		External mm		Pole Box
		mm	Width	Depth	Width	Depth	mm
PB2902751	290 x 275	640	325	310	680	400	114
PB2902752	290 x 275	640	325	310	680	400	140
PB4504501	450 x 450	640	470	470	875	600	114
PB4504502	450 x 450	640	470	470	875	600	140

* The clear opening for boxes is greater than the clear opening for frames.



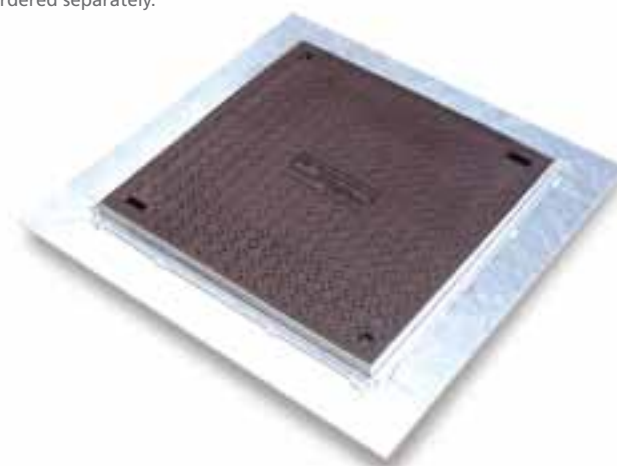
Composite covers

New advanced skid resistance composite covers are available for the range of access, pole and signal boxes. Manufactured in high strength, fibre-reinforced polyester resin and to BS EN 124 Class B125.

Composite Covers	
Code	Nominal Size mm
CC290275	290 x 275
CC450300	450 x 300
CC450450	450 x 450
CC600450	600 x 450
CC600600	600 x 600

Composite Cover Frames	
Code	Nominal Size mm
CCF290275L	290 x 275
CCF450300L	450 x 300
CCF450450L	450 x 450
CCF600450L	600 x 450
CCF600600L	600 x 600

A locking frame is required and must be ordered separately.



Lighting covers, frames

Galvanised Steel Covers & Frames	
Code	Nominal Size mm
GCF290275	290 x 275
GCF450300	450 x 300
GCF450450	450 x 450
GCF600450	600 x 450
GCF600600	600 x 600

Typical places of installation include areas subject to slow moving wheel loads, including footways, pedestrian areas, car parks and verges.



Galvanised steel covers

Galvanised steel covers and frames are manufactured to the FACTA (Fabricated Access Cover Trade Association) Class B specification, equivalent to BS EN 124 Class B125.

Ductile Iron Covers & Frames	
Code	Clear Opening mm
DCF450450	450 x 450
DCF600450	600 x 450
DCF600600	600 x 600



Ductile iron covers and frames

Ductile iron access box covers are manufactured to BS EN 124 Class B125.

Utilities Ridgiduct and Ridgicoil

Key benefits

- Low weight, flexible, durable and high strength
- Good impact resistance, even at low temperatures
- Available from stock
- BBA approved and complies with BS EN 50086-2-4



Ridgiduct Utilities				
ID mm	OD mm	Length m	Code	Pack Qty
94	110	6	RB94X6**	95
100	118	6	RB100X6**	85
150	178	6	RB150X6**	36
225	266	6	RB225X6***	14
300	354	6	RB300X6***	9

Y, BL, O, G, PMCP * Y & BL

Ridgiduct utilities

Available in a range of colours which comply with NJUG classifications.



KEY

Y = Yellow	OSL/OTS = Orange
BL = Blue	G = Green
BE = Black	PMCP = Purple

Other colours and print options available subject to minimum order quantity.

Ridgicoil			
OD mm	ID mm	Length m	Code
40	31	50	RC40X50*
50	40	50	RC50X50*
63	50	50	RC63X50**
75	60	50	RC75X50*
90	71	50	RC90X50*
110	94	50	RC110X50**
160	140	25	RC160X25*

* Black only **Y, BL, O, G, PMCP

Ridgicoil utilities

Ridgicoil is a strong yet flexible alternative to conventional ducting for underground utilities. Ridgicoil's flexibility eliminates the need for special bends and the smooth bore has a low co-efficient of friction for ease of cable installation.



Key benefits

- Compliance with EN 50086-2-4: Type 450N, normal duty impact resistance
- Manufactured in polyethylene with excellent impact resistance at low temperatures
- Factory installed draw cord and couplings
- Colours and printing to suit the end use application (subject to lead times)

Gas Ducting			
OD mm	Length m	Description	Code
60	150	Perforated	LD60150YGAS
60	150	Unperforated	UD60150YGAS
100	100	Perforated	LD100100YGAS
100	100	Unperforated	UD100100YGAS

Please ensure you are using this product to the correct specification of the end users requirements.

Gas ducting

Single wall corrugated ducting for gas pipes. Available in either perforated or unperforated options.

Utilities uPVC cable TV duct

Key benefits

- Durable, high quality construction
- Low coefficient of friction for easy cable installation
- A short 54mm branch on swept tees for trouble-free installation in congested footways
- uPVC Telecommunications Ducts include integral socket. Telecommunications Ducts are available in black, grey and green as standard. Other colours are available on request subject to minimum order quantities and lead times

uPVC CABLE TV Duct

ID mm	OD mm	Length m	Standard	Code	Pack Qty
GREEN DUCT					
49	54	6	-	TD54X6G	400
90	96.5	6	BSEN50086	TD96X6G	121
GREY DUCT					
49	54	6	-	TD54X6GR	121
90	96.5	6	BSEN50086	TD96X6GR	121
BLACK DUCT					
49	54	6		TD54X6B	121
90	96.5	6	BSEN50086	TD96X6B	121

Some items are made to order and subject to lead times.

Telecommunications duct

A range of specialist uPVC Telecommunications ducting systems, manufactured in accordance with dimensions and performance requirements tried and tested by the telecommunications industry.



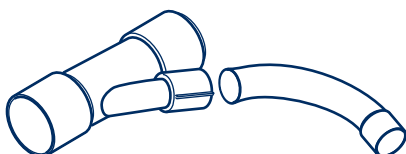
Bends		
Description	Code	Pack Qty
54mm GREEN BENDS Also available in Grey (GR) and Black (B)	TDB54X11G	60
	TDB54X22G	60
	TDB54X45G	60
	TDB54X90G	50
96mm GREEN BENDS	TDB96X11G	15
	TDB96X22G	15
	TDB96X45G	15
	TDB96X90G	10
96mm GREY BENDS	TDB96X11GR	15
	TDB96X22GR	15
	TDB96X45GR	15
	TDB96X90GR	10
96mm BLACK BENDS	TDB96X11B	15
	TDB96X22B	15
	TDB96X45B	15
	TDB96X90B	10



Couplings		
Description	Code	Pack Qty
54mm	TDC54G	10
54mm Slip Coupling	TDSC54G	10
96mm	TDC96G	50
96mm Slip Coupling	TDSC96G	50



Swept Tees		
Description	Code	Pack Qty
96 x 54mm	TDJT96X54G	15



Utilities uPVC specification

Key benefits

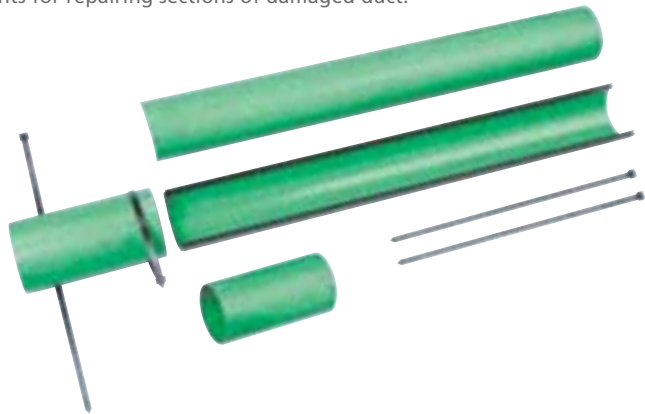
- Available in 0.5, 2 and 3m lengths
- Easy installation
- Assembly instructions supplied

Duct Repair Kits

Description	Standard Length m	Code	Pack Qty
96.5mm Duct Repair Kit	0.5	DRK096	1

Duct repair kits

Components for repairing sections of damaged duct.



Key benefits

- 54 and 96.5mm Utility ducting for electrical cables, water services, telecommunications and gas services
- 110 and 160mm OD Type 4660 ducting in dimensional compliance with BS 4660 available sealed and unsealed

Type 4660 duct non-sealed

ID	OD	Length m	Code	Pack Qty
110	116	6	SD110X6B	95
160	169	6	SD160X6B	46

(dimensions compliant only)

uPVC specification and utility ducts

Polypipe Civils specification and utility ducts are widely and successfully used for the carriage of all types of services in a range of applications including industrial, domestic and commercial. Specification ducts are more robust than General Purpose duct. uPVC utility ducts were the first widely available thermoplastic ducts and are available in a number of different sizes to suit all common specification requirements.



Type 4660 duct sealed				
ID	OD	Length m	Code	Pack Qty
110	116	6	SD110X6BPE	95
160	169	6	SD160X6BPE	46

(dimensions compliant only)

Please note:

Order couplings separately.

Bends			
ID	Angle°	Code	Pack Qty
110	45	SDB110X45PE	1
110	90	SDB110X90PE	1
160	45	SDB160X45PE	1
160	90	SDB160X90PE	1

Couplings (Polypropylene)		
ID	Code	Pack Qty
110	UG402B	1
160	UG602B	1



Utilities general purpose

General purpose ducting

General Purpose uPVC duct and fittings are a cost effective alternative to higher specification systems, for use in light and medium duty applications. The products are manufactured to traditionally accepted dimensions but do not meet the requirements of BS EN 50086-2-4: 1994. General Purpose ducting is not suitable for Highways Agency applications and will require a better standard of installation than more robust systems for successful performance. All ducts include an integral socket and accessories include bends, junctions and end caps.



General Purpose Ducting					
Dia. inches	Dia. mm	Wall Thickness mm	Length m	Code	Pack Qty
2*	54	1.5-1.7	6	GP2X6B	400
3*	88.9	1.8-2.2	6	GP3X6B	144
4*	114	1.8-2.1	6	GP4X6B	86
6*	168	2.2-2.9	6	GP6X6B	36
8*	200	3.2-3.6	6	GP8X6B	25

General purpose ducting lengths include integral socket.
Please note this product comes in colour grey to black for both pipe and fittings.

Bends			
Dia. inches	Dia. mm	Code	Pack Qty
2	54	GPB2X11	60
2	54	GPB2X22	60
2	54	GPB2X45	60
2	54	GPB2X90	50
3	89	GPB3X11	25
3	89	GPB3X22	25
3	89	GPB3X45	15
3	89	GPB3X90	10
4	114	GPB4X11	10
4	114	GPB4X22	10
4	114	GPB4X45	10
4	114	GPB4X90	7
6	168	GPB6X11	3
6	168	GPB6X22	3
6	168	GPB6X45	3
6	168	GPB6X90	3
8	200	GPB8X11	1
8	200	GPB8X22	1
8	200	GPB8X45	1
8	200	GPB8X90	1

Please note this product comes in colour grey to black for both pipe and fittings.

Suretwin				
ID mm	OD mm	Length m	Code	Pack Qty
150	178	6	GPT150X6B	36

Suretwin

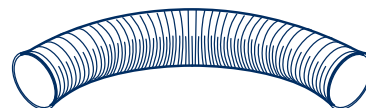
Suretwin is a non-certified twin wall system which provides a cost effective alternative to conventional systems where a BBA or ENATS duct is not required. The Suretwin system is currently available in 150mm diameter and meets the stiffness and normal duty impact requirements of BS EN 50086-2-4: Type 450 compression resistance only.

Ancillary products

150mm Bends

Radius mm	Angle°	Code	Pack Qty
610	11.25	RBDB150X11X0.61	5
610	22.5	RBDB150X22X0.61	5
610	45	RBDB150X45X0.61	4
610	90	RBDB150x90x0.61	3

Ridgiduct black long radius drawn bends



Coupling

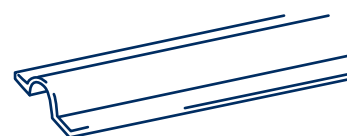
ID	Code	Pack Qty
150mm black coupling	RBC150	10

Cable Guard

Diameter "	Code	Pack Qty
0.5	CG001X10	50
0.75	CG002X10	25
1.0	CG003X10	25
1.5	CG004X10	10
2.0	CG005X10	10
2.5	CG006X10	10
3.0	CG007X10	5
4.0	CG008X10	5

Cable guard

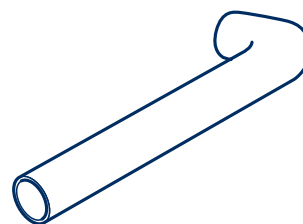
Supplied in 10 foot lengths.



Hockey Sticks

Utility provider	Size mm	Colour	Code	Pack Qty
Central Network	Oval	White	HSPV019WHITE	25
EDF - Eastern	39	White	HSPV018WHITE	25
NEDL - Northern	39	White	HSPV018WHITES	25
Scottish Power	32	Black	HSPV032BLACK	25
Scottish & Southern Power	38	Black	HSPV017SEBBLK	25
Scottish & Southern Power	38	White	HSPV01WHITE	25
United Utilities	32	White	HSPV032WHITES	25
Western Power	37	White	HSPV016WHITE	25

Hockey Sticks



Some items are made to order and subject to lead times.

Installation advice

Installation information

Ridgiduct Twin-Walled High Density Polyethylene cable protection must be installed in accordance with the general requirements and any additional site requirements. The general requirements are to be in accordance with MCHW, Volume 3, as shown below. Cable protection laid in depths of cover other than those specified below must be laid in accordance with the procedures described in the contract with the Highways Agency (HA). Ridgiduct must be adequately protected against damage from site construction traffic and from agricultural or similar operations. When used as cable protection for fibre optic cabling the recommendations in BS 7718 : 1996 should be followed.

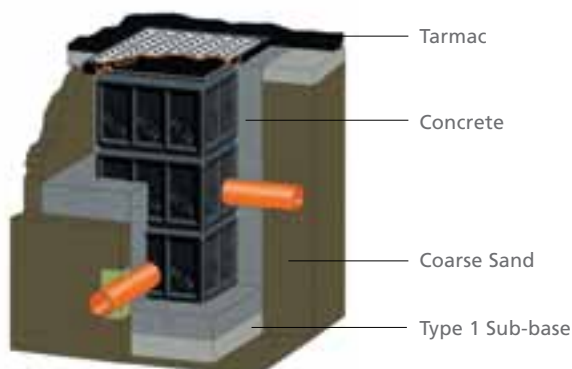
Procedure (unsealed)

Joints are made by a simple push-fit of one cable protection length into the coupler attached to the adjacent length, ensuring that the connection is fully made. Inspection points can be made in the conventional manner depending upon the type of services to be installed.

Access and pole box installation advice

Polypipe Civils recommends that the systems be installed in general accordance with the Traffic Control Signals Unit (TCSU) specification. Polypipe access and pole boxes are designed to meet the requirements of the TCSU, making installation easy and trouble-free. Local specifications and requirements may apply.

Typical installation of a 450 x 450mm access box subject to vehicle traffic



Covers and frames

Access box covers and frames should meet the requirements of BS EN 124 Class B125. In carriageways or other locations where vehicles may run over access boxes, heavier grades of cover may be required.

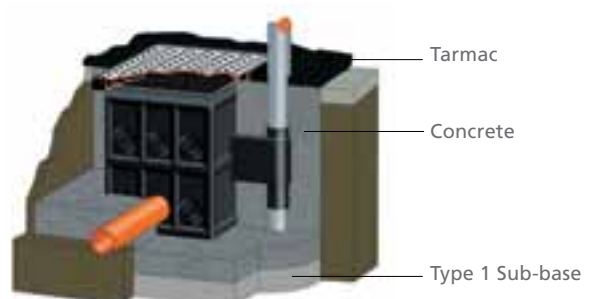
General

In footways cable protection for signal post cables and linking cables must have minimum cover depths of 450mm and 250mm respectively. The minimum depth of cover in carriageways is 600mm. Subject to local cable protection specification, cable protection should be bedded on 100mm of compacted bedding material. Cable protection lengths must be continuous and fully jointed, with the printing placed uppermost when laying. Suitable surround material should also be used to fill any voids between multiple cable protection and should extend to 100mm above the cable protection. Polypropylene draw cords should be provided in each cable protection with no knots or joints and should extend a minimum of 1 metre into each access box.

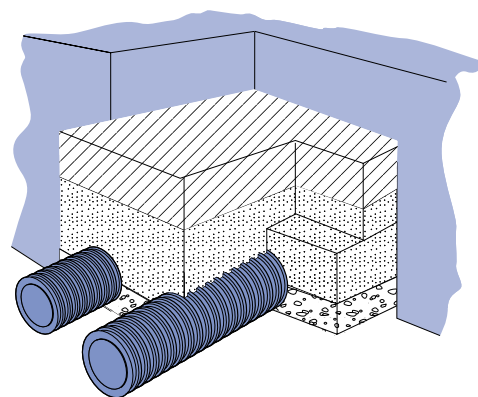
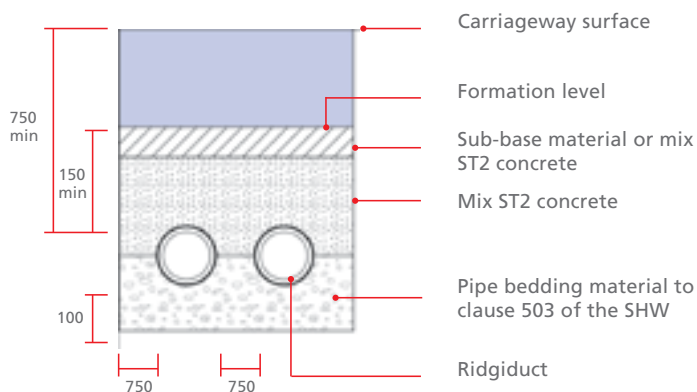
Access and pole boxes

Cable protection are easily connected to the selected entry point. The pre-trepanned section for the size of cable protection to be used can be cut out with a knife or hole saw. The cable protection should be inserted through the opening and cut to length. Boxes that may be subject to traffic loading are typically installed as illustrated.

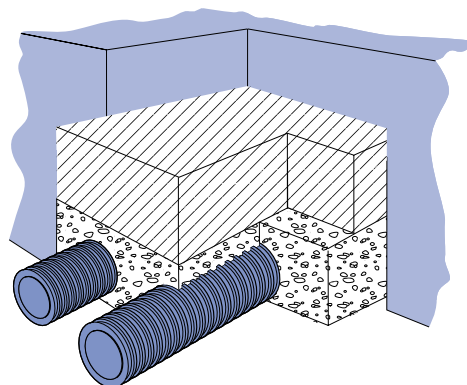
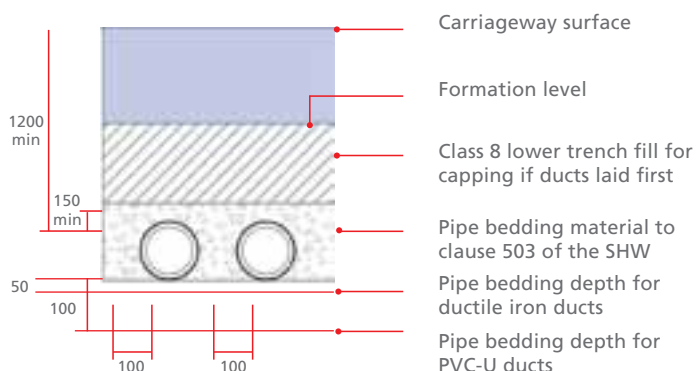
Typical installation of a Polypipe 450 x 450mm pole box



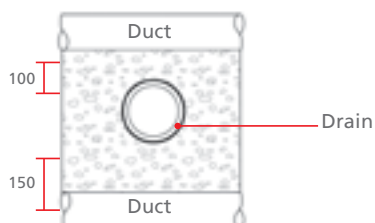
Typical unsealed standard duct installations Type A shallow ducts (750 to 1200 cover)



Type B deep cuts (over 1200 cover)



Minimum clearance between duct and drain



Motorway Comms installations should be in accordance with MCHW series 1500, for installation details regarding multiple duct configurations and sealed systems, please refer to our technical office for specific advice.



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