



Testing & Applications



The risks of Cable Protection failure can have significant consequences to Personal Safety, Continuity of Power / Data Supply and System Integrity.

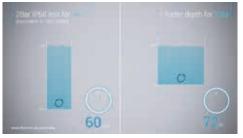
Flexicon ULTRA™ is the world's best solution to protect critical cabling and vulnerable installations. Ideal for the harshest environments and technically demanding applications, Flexicon ULTRA™ exceeds expectations when it comes to Cable Protection Performance.



Flexicon ULTRA™ is ideal for applications which demand...



- Simplicity: One piece solution no separate parts or pre-assembly required
- High level of Ingress Protection: IP66, IP67, IP68 and IP69 performance
- Dynamic performance: Highest tensile strength non-metallic fitting, upto 70kg
- Light weight: Non-metallic components
- · Reliability: Tested to extremes
- · Corrosion resistance: Long life performance



Our products have been tested to the extremes to ensure suitability for technically demanding environments.

For example, to demonstrate the Ingress Protection performance to IP68 we've tested our products for Ingress Protection to 1 metre depth for a period of 72 hours, far beyond the requirements of the BS EN IEC 60529.

We've also tested our products for 2 Bar (equivalent to 20 metre depth) for a period of 1 hour.

Typical applications include...









il Automation

Utilities

Marine

Product Features & Benefits







Performance & Safety Critical applications.

Integrity.

NEW

- One Piece Integrated Sealing Technology
- IP68, IP69 performance
- Simple push and twist connection

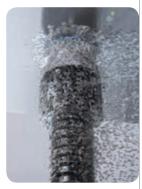
Strength.

- 360° Strength All round teeth
- 70kg Tensile Strength
- · Anti-tamper, Dynamic & Vibration performance

Assurance.

- Lifetime sealing & reliability
- Independently tested to extremes
- UK Manufacturer















non-metallic conduit

							NEW	
			FPAS	FPR	FPAH	FPI	FPIH	FPIHR
Weight			Standard	Standard	Heavy	Standard	Heavy	Heavy
Material			PA6	PA6*	PA6	PA12	PA12	PA12*
Compression Stre	engt		75kg	75kg	120kg	45kg	60kg	60kg
High fatigue Life			Yes	Yes	-	Yes	Yes	Yes
Temperature Rang	ge		-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-50°C to +110°C	-50°C to +110°C	-50°C to +110°C
Low Temperature	lmp	act	5J @ -40°C	3J @ -40°C	5J @ -40°C	6J @ -50°C	6J @ -50°C	9.8J @ -50°C
Low Fire Hazard			LOW FIRE HAZZARD	COTIDA LOW FIRE HAZARD	STANDARS LOW FIRE HAZARD	LOW FIRE HAZARD	COW FIRE HAZARD	COTTIAL LOW FIRE HAZARD **
Halogen Free			Yes	Yes	Yes	Yes	Yes	Yes
Self Extinguishing	g		Yes	Yes	Yes	Yes	Yes	Yes
High Abrasion Re	esista	ance	Yes	Yes	Yes	-	Yes	Yes
Resistant to Solve	ents	& Oil	Yes	Yes	Yes	Yes	Yes	Yes
High UV Resistan	nce (l	Black	Yes	Yes	Yes	Yes	Yes	Yes
BS EN IEC 61386	5		Yes	Yes	Yes	Yes	Yes	Yes
Lloyds Register A		oved	Yes	Yes	-	-	-	-
UL Recognised	To John		Yes	Yes	Yes	Yes	Yes	_
UL Listed			Yes	-	-	-	-	_
EN 45545-2			-	HL3	_	_	_	HL3
LUL 1-085			_	Yes	_	_	_	Under Test
BS 6853			Yes	Yes	Yes	Yes	Yes	Under Test
NF F 16-101/2			Yes	Yes	Yes	Yes	Yes	Under Test
DIN 5510		-	Yes	103	Yes	Yes	Under Test	
CEI 11170			Yes	_	-	-	Under Test	
AS/NZS 1530.3				Yes	_	_	_	Under Test
ASTM E 162		-	Yes	-	-	-	Under Test	
ASTM E 162 ASTM E 662				Yes	-	Yes	Yes	Under Test
				1				
CE			Yes	Yes	Yes	Yes	Yes	Yes
ROHS			Yes	Yes	Yes	Yes	Yes	Yes
REACH			Yes	Yes	Yes	Yes	Yes	Yes
Highly Flame retardant	ean (NW) sizes	pitch nominal ciza (mm)	FPAS part number	F P R part number	FPAH part number	F P I	FP I H part number	FPIHR part number
1	10	F 1	FPAS13	FPR13	FPAH13	FPI13	FPIH13	FPIHR13
1	12 12	F 1 F 1 F 1	FPAS16	FPR16	FPAH16	FPI16	FPIH16	FPIHR16
1			FPAS21	FPR21	FPAH21	FPI21	FPIH21	FPIHR21
		F 2 C 2 C 2	FPAS21C					
1	23	C 2 C 2 F 2	FPAS21C FPAS28	FPR28	FPAH28	FPI28	FPIH28	FPIHR28
2	23	C 2	FPAS21C FPAS28 FPAS28C FPAS34	FPR28	FPAH28 FPAH34	FPI28 FPI34	FPIH28 FPIH34	FPIHR28 FPIHR34
2 2 2	23 29 29	C 2 C 2 F 2 C 2 C 3 F 3	FPAS21C FPAS28 FPAS28C FPAS34 FPAS34F	FPR34	FPAH34	FPI34	FPIH34	FPIHR34
2 2 2 2 3	23 29 29 29 36	C 2 C 2 F 2 C 2 C 3	FPAS21C FPAS28 FPAS28C FPAS34 FPAS34F FPAS34F					

Flexicon ULTRA™ - The World's Best Conduit Fitting!

FPAU system

nylon and metallic threaded options

Featuring Integrated Sealing Technology, Flexicon ULTRA™ provides a true one piece solution when it comes to cable protection for technically demanding environments.

With all round teeth to secure the conduit, Flexicon ULTRA™ offers superior dynamic performance providing Integrity, Strength & Assurance in one package.

For technically demanding, safety and performance critical applications such as Rail, Machinery & OEM's, Automation or Marine, Flexicon ULTRA™ is the proven one piece fitting for all round performance.









ULTRA™ system straight





STRAIGHT

swivel brass

internal thread

Fast fit, swivel, nickel

plated brass internal

threaded fitting with

integrated conduit seal.





STRAIGHT

Fast fit, swivel, nickel plated

gland fitting with integrated conduit seal. Suitable for

brass external threaded cable

knockouts or threaded entries.

cable gland





external thread

STRAIGHT

threaded fitting with integrated conduit seal. Suitable for knockouts

Fast fit, external or threaded entries

















STRAIGHT

UNEF swivel

internal thread

plated brass swivel

Fast fit fitting with nickel

UNFF internal thread for

attachment to circular

connectors with integrated conduit seal.











Fast fit fitting with nylon

integrated conduit seal and with 'O' ring

FLANGE

swivel flange with

flange

face seal.









thread



threaded entries.

STRAIGHT

swivel brass external

Fast fit, swivel, nickel plated

with integrated conduit seal. Suitable for knockouts or

brass external threaded fitting



































Ext Metric	Int UNEF	Flange	NPB Ext Metric	NPB Ext PG	NPB Int Metric	NPB Metric
FPAU13-M16			FPAU13-BM16	FPAU13-BPG9	FPAU13-BFM16	FPAU13-BM16-CG
FPAU16-M16	FPAU16-BU075	FPAU16-FL	FPAU16-BM16	FPAU16-BPG9	FPAU16-BFM16	FPAU16-BM16-CG
FPAU16-M20	FPAU16-BU100 FPAU16-BU119		FPAU16-BM20	FPAU16-BPG11	FPAU16-BFM20	FPAU16-BM20-CG
FPAU21-M20	FPAU21-BU100 FPAU21-BU119 FPAU21-BU138	FPAU21-FL	FPAU21-BM20	FPAU21-BPG13 FPAU21-BPG16	FPAU21-BFM20	FPAU21-BM20-CG
FPAU28-M25	FPAU28-BU138 FPAU28-BU144	FPAU28-FL	FPAU28-BM25	FPAU28-BPG21	FPAU28-BFM25	FPAU28-BM25-CG
FPAU34-M32	FPAU34-BU144	FPAU34-FL	FPAU34-BM32	FPAU34-BPG29	FPAU34-BFM32	FPAU34-BM32-CG
FPAU42-M40	FPAU42-BU200	FPAU42-FL	FPAU42-BM40	FPAU42-BPG36	FPAU42-BFM40	FPAU42-BM40-CG
FPAU42-M50	FPAU42-BU225		FPAU42-BM50			
FPAU54-M50	FPAU54-BU200		FPAU54-BM50	FPAU54-BPG48	FPAU54-BFM50	FPAU54-BM50-CG
FPAU54-M63	FPAU54-BU225		FPAU54-BM63			



Properties

- · Fast fit True one piece component
- PA66 Nylon moulded fitting
- · Metallic threads made from Nickel Plated Brass
- Retained Face seal details:
- Nylon and Brass external threads include **Retained High Performance washer**
- UNEF and Flange supplied with O-ring
- IP rating: for conduit & fitting IP66 + IP67 + IP68 (2 bar) + IP68 (72hrs @ 1m) + IP69
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed

- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- · Suitable for fine and coarse pitch conduits
- · Temperature range:

conduit fitting: -50°C to +135°C

- · Low Fire Hazard (LFH)
- · Halogen, sulphur and phosphorus free
- UV resistant
- Swivel threads allow assembly without twisting of cables

Industry Approvals















EN 45545

LTRA™ system













45°ELBOW 45°ELBOW

external thread

Fast fit, external threaded 45 degree elbow fitting with integrated conduit seal. Suitable for knockouts.













UNEF swivel

internal thread for

internal thread

Fast fit, 45 degree elbow

fitting with nickel plated brass swivel UNEF

attachment to circular connectors with

integrated conduit seal.









Fast fit 45 degree elbow fitting with nylon swivel flange with integrated conduit seal and 'O' ring face seal.

FLANGE







swivel brass external

45°ELBOW

thread

Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting with integrated conduit seal. Suitable for knockouts or threaded entries.









swivel brass

45°ELBOW

internal thread Fast fit, swivel, 45 degree elbow, nickel plated brass internal

threaded fitting with integrated conduit seal.









Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting with integrated conduit seal. Suitable for knockouts or threaded entries

cable gland

45°ELBOW



























Ext Metric	Int UNEF	Flange	NPB Ext Metric	NPB Ext PG	NPB Int Metric	NPB Metric
FPAU16-M20-45	FPAU16-BU100-45	FPAU16-FL-45	FPAU16-BM16-45	FPAU16-BPG13-45	FPAU16-BFM20-45	FPAU16-BM20-CG-45
	FPAU16-BU119-45		FPAU16-BM20-45	FPAU16-BPG16-45		
FPAU21-M 20-45	FPAU21-BU100-45	FPAU21-FL-45	FPAU21-BM20-45	FPAU21-BPG13-45	FPAU21-BFM20-45	FPAU21-BM20-CG-45
	FPAU21-BU119-45			FPAU21-BPG16-45		
	FPAU21-BU138-45					
FPAU28-M 25-45	FPAU28-BU138-45	FPAU28-FL-45	FPAU28-BM25-45	FPAU28-BPG21-45	FPAU28-BFM25-45	FPAU28-BM25-CG-45
	FPAU28-BU144-45					
FPAU34-M 32-45	FPAU34-BU144-45	FPAU34-FL-45	FPAU34-BM32-45	FPAU34-BPG29-45	FPAU34-BFM32-45	FPAU34-BM32-CG-45
FPAU42-M50-45	FPAU42-BU200-45	FPAU42-FL-45	FPAU42-BM40-45	FPAU42-BPG36-45	FPAU42-BFM50-45	FPAU42-BM40-CG-45
	FPAU42-BU225-45		FPAU42-BM50-45			
FPAU54-M 50-45	FPAU54-BU200-45		FPAU54-BM50-45	FPAU54-BPG48-45	FPAU54-BFM50-45	FPAU54-BM50-CG-45
	FPAU54-BU225-45		FPAU54-BM63-45			

Flexicon ULTRA™ fitting works with both fine and coarse pitch conduits



Fine Pitch



Coarse Pitch

How to identify a Flexicon ULTRA™ fitting



- · 2 Tone colour Capnut different to Body
- IP69 marked on product
- · Blue insert seal with visible ribs within capnut
- Retained Face Sealing Washer

How to install a Flexicon ULTRA™ fitting

Step 1: Offer conduit to fitting



Step 2: Push whilst twisting conduit















ULTRA™ system



90°ELBOW

external thread

Fast fit, external threaded 90 degree elbow fitting with integrated conduit for knockouts.

90°ELBOW

UNEF swivel internal thread

Fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with integrated conduit seal.

FLANGE

flange Fast fit 90 degree elbow fitting with nylon swivel flange with integrated conduit seal with 'O' ring face seal.

90°ELBOW

swivel brass external thread

Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting with integrated conduit seal. Suitable for knockouts or threaded entries.

90°ELBOW

swivel brass internal thread

Fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting with integrated conduit seal.

90°ELBOW

cable gland

Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting with integrated conduit seal. Suitable for knockouts or threaded entries















































































pitch	(mm) azis lenimon
F	- 1

Ext Metric	Int UNEF	Flange	NPB Ext Metric	NPB Ext PG	NPB Int Metric	NPB Metric	enro	pitch	шош
FPAU13-M16-90			FPAU13-BM16-90	FPAU13-BPG9-90	FPAU13-BFM16-90	FPAU13-BM16-CG-90	10	F	13
FPAU16-M16-90	FPAU16-BU075-90	FPAU16-FL-90	FPAU16-BM16-90	FPAU16-BPG9-90	FPAU16-BFM16-90	FPAU16-BM16-CG-90	12	F	16
FPAU16-M20-90	FPAU16-BU100-90		FPAU16-BM20-90	FPAU16-BPG11-90	FPAU16-BFM20-90	FPAU16-BM20-CG-90	12	F	16
	FPAU16-BU119-90						12	F	16
FPAU21-M20-90	FPAU21-BU100-90	FPAU21-FL-90	FPAU21-BM20-90	FPAU21-BPG13-90	FPAU21-BFM20-90	FPAU21-BM20-CG-90	17	F	21
	FPAU21-BU119-90			FPAU21-BPG16-90				C	21
	FPAU21-BU138-90							C	21
FPAU28-M25-90	FPAU28-BU138-90	FPAU28-FL-90	FPAU28-BM25-90	FPAU28-BPG21-90	FPAU28-BFM25-90	FPAU28-BM25-CG-90	23	F	28
	FPAU28-BU144-90							C	28
FPAU34-M32-90	FPAU34-BU144-90	FPAU34-FL-90	FPAU34-BM32-90	FPAU34-BPG29-90	FPAU34-BFM32-90	FPAU34-BM32-CG-90	29	C	34
							29	F	34
FPAU42-M40-90	FPAU42-BU200-90	FPAU42-FL-90	FPAU42-BM40-90	FPAU42-BPG36-90	FPAU42-BFM50-90	FPAU42-BM40-CG-90	36	C	42
FPAU42-M50-90	FPAU42-BU225-90		FPAU42-BM50-90				36	C	42
FPAU54-M50-90	FPAU54-BU200-90		FPAU54-BM50-90	FPAU54-BPG48-90	FPAU54-BFM50-90	FPAU54-BM50-CG-90	48	C	54
FPAU54-M63-90	FPAU54-BU225-90		FPAU54-BM63-90				48	C	54

Flexicon a global presence with a local focus

LEADING THE WAY IN TODAY'S DEMANDING MARKETPLACE

- Excellence through engineering
- Progression through innovation
- Assurance through competence

The Flexicon Group is proud of its British Manufacturing heritage. Over 98% of our products are manufactured in our centre of excellence in Birmingham, UK. Continuous investment in our facilities, research and development and people have contributed to the Group's market leading position in Cable Protection Systems.

Our comprehensive product range consists of over 52 metallic and non-metallic systems. Growth in markets such as Hazardous areas, the Food and Beverage sector along with Renewable Energy, and further expansion in existing markets has seen the Group continue to achieve its strategic growth objectives.

Flexicon Offers;

- Independently tested products that comply with and exceed relevant global standards
- · User friendly solutions offering time saving innovations
- · Precision engineered quality products from the global experts
- · International Technical Support
- Custom made solutions capability bespoke or made to order assemblies
- Global distribution serving our worldwide customer base
- Continuous product development and investment in products for the future

flexiapp – find-a-conduit

Try our new smart phone app and find the perfect conduit for your requirements!







This selection guide brochure is only a snapshot of the full Flexicon range.



See our latest product guide for the widest choice - over 100 pages featuring over 4,000 products.



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