

Flexicon Flexible Conduit, Glands and Clamps

by Unipart Rail

Flexible conduit designed and accepted for use in Class II equipment and in Flood Prone areas



FLEXICON
FLEXIBLE CONDUIT SOLUTIONS



Network Rail Approved

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The Flexicon Range



The Flexicon insulated flexible conduit system for cable protection is now available for use in new and upgraded Signalling Power Distribution Systems in accordance with NR/L2.SIGELP/27410 Issue 2.



With a minimum dielectric strength of 3.5kV, in various weights and flame retardant ratings, and with variants specifically designed for use in flood-prone areas, the range is suitable for use in the majority of track-side locations.

PADS approved flexible conduit from Flexicon is available in diameters 21mm to 106mm for indoor and outdoor applications, and from 21mm to 67mm for external applications in areas prone to flooding. Network Rail has also approved a range of accessories including fixing clips, heavy-duty conduit clamps, rubber end clamps and non-metallic conduit cutters.

Its integrated sealing technology delivers an IP rating of 66, 67, 68 and 69, while its all round teeth provide 360° strength to give the strongest tensile strength available of up to 70Kg (for 21mm size conduit). The new fitting also has the highest levels of anti-vibration and shock protection performance testing to EN 61373 Cat 2.

Unusually for such a high performance fitting, Flexicon Ultra™ has a one-piece construction, so there is no risk of missing components on site which could result in the potential for an inferior/incorrect assembly. It is easily installed using a simple push and twist connection to the conduit, and is compatible with both fine and coarse pitch conduits without any loss of sealing performance.

Flood Areas

Network Rail has recently enhanced their PADS requirements to include a provision for areas prone to flooding or prolonged immersion under water. Crucially if an area is prone to flooding and/or there is a risk of cabling being immersed then currently only Flexicon can provide a PADS approved system for Network Rail signalling and infrastructure installations

For areas prone to flooding, use the PAI2 range of conduit with NRFP AU fittings and glands.

Class II Installations

The Flexicon flexible conduits are approved for use in Class II installations, note that the Network Rail Certificate of Acceptance states "A Class II installation is satisfied if the insulating flexible conduits, glands and accessories are installed with other system components in accordance with NR/L2/ SIGELP/24710 Issue 2. The use of insulating flexible conduit, glands and accessories alone in a Class I installation does not provide a protective measure."

Flame Retardant Materials

The Flexicon range has two levels of flame retardancy – 'Standard' and 'Highly' flame retardant.



Dual slit conduit ideal for retrofit.

PADS Approved Non-metallic Conduits



	Size Range (ø)	IP Rating	Temp Range	High Mechanical Strength	Low Fire Hazard	Halogen Free	Self Extinguishing	High Fatigue Life	High Abrasion Resistance	High UV Resistance	Flood Areas
NRFPAS Nylon PA6 corrugated, standard weight 	21 mm to 106 mm	IP66 IP67 IP68 IP69	-40°C to +120°C			✓	✓	✓	✓	✓	
NRFPFR Nylon PA6 corrugated, standard weight 	21 mm to 106 mm	IP66 IP67 IP68 IP69	-40°C to +120°C			✓	✓		✓	✓	
NRFPAH Nylon PA6 corrugated, heavy weight 	21 mm to 54 mm	IP66 IP67 IP68 IP69	-40°C to +120°C	✓		✓	✓		✓	✓	
NRFPIH Nylon PA12 corrugated, heavy weight 	21 mm to 67 mm	IP66 IP67 IP68 IP69	-50°C to +110°C	✓		✓	✓	✓	✓	✓	✓
NRFPIHR Nylon PA12 corrugated, heavy weight 	21 mm to 54 mm	IP66 IP67 IP68 IP69	-50°C to +110°C	✓		✓	✓	✓	✓	✓	✓
NRFPADS Nylon PA6 corrugated, standard weight 	21 mm to 54 mm	IP40	-40°C to +120°C			✓	✓		✓	✓	



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PADS Approved Fittings & Accessories



NRFPAU

Nylon (PA66) One piece fast fit straight fitting with integrated conduit seal.

- UV resistant
- -50°C to +135°C
- 21mm to 67mm
- IP66, IP67, IP68, IP69



NRFPAU 90°

Nylon (PA66) One piece fast fit 90 degree fitting with integrated conduit seal.

- UV resistant
- -50°C to +135°C
- 21mm to 54mm
- IP66, IP67, IP68, IP69



NRFPAU 45°

Nylon (PA66) One piece fast fit 45 degree fitting with integrated conduit seal.

- UV resistant
- -50°C to +135°C
- 21mm to 54mm
- IP66, IP67, IP68, IP69



NRFPAX-FPAX

Nylon (PA66) with internal elastometric seal fast fit coupler to join corrugated conduits.

- 21mm to 54mm
- IP66, IP67, IP68, IP69



NRFPAX-CG

Nylon (PA66) straight conduit fitting with integral cable strain relief.

- UV resistant
- -30°C to +100°C
- 21mm to 28mm
- IP66, IP67, IP68, IP69



NRFCL

Nylon (PA66) conduit clip with integral lid for use with corrugated flexible conduit.

- 21mm to 54mm



NRREC

Thermoplastic elastomer cap used to seal end of conduit. Can be cut to size depending on size of cable.

- 28mm to 80mm



NRFLAMP

Nylon (PA66) heavy duty fixing clamp for non-metallic corrugated conduit.

- 21mm to 80mm



LOW FIRE HAZARD END OF LINE GLAND

One piece fitting with Integrated Sealing Technology

- UV Resistant
- Fast Fit - simple push & twist
- 28mm to 54mm

- Anti vibration & Tamper Resistant
- High tensile strength due to all round retaining teeth
- Can be removed using a screwdriver
- Suitable for fine or coarse pitch conduits

- High IP rating
- Supplied with retained High Performance face seal washer
- Supplied with PA6 coupler & cable gland
- Network Rail PADS approval pending



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Flexicon Flexible Conduit and Glands Range



	Catalogue Number	Description	Pack Qty
NYLON CONDUIT			
NRFPAS Standard weight flame retardant PA6, black. Use with NRFP AU glands.			
	0086/008738	21 mm nominal outer diameter.	50m
	0086/008739	28 mm nominal outer diameter.	50m
	0086/008740	34 mm nominal outer diameter.	50m
	0086/008741	42 mm nominal outer diameter.	25m
	0086/008742	54 mm nominal outer diameter.	25m
	0086/008743	67 mm nominal outer diameter.	10m
	0086/008744	80 mm nominal outer diameter.	10m
	0086/008745	106 mm nominal outer diameter.	10m
NRFPFR Standard weight Highly Flame Retardant PA6 Flexible Conduit. Use with NRFP AU glands.			
	0086/008746	21 mm nominal outer diameter.	50m
	0086/008747	28 mm nominal outer diameter.	50m
	0086/008748	34 mm nominal outer diameter.	50m
	0086/008749	42 mm nominal outer diameter.	25m
	0086/008750	54 mm nominal outer diameter.	25m
	0086/008751	67 mm nominal outer diameter.	10m
	0086/008752	80 mm nominal outer diameter.	10m
	0086/008753	106 mm nominal outer diameter.	10m
NRFP AH Heavy weight flame retardant PA6 Flexible Conduit. Use with NRFP AU glands.			
	0086/008754	21 mm nominal outer diameter.	50m
	0086/008755	28 mm nominal outer diameter.	50m
	0086/008756	34 mm nominal outer diameter.	25m
	0086/008757	42 mm nominal outer diameter.	25m
	0086/008758	54 mm nominal outer diameter.	25m
NRFPADS Standard weight Double slit PA6 Conduit. Use with NRFP AU glands.			
	0086/008759	21 mm nominal outer diameter.	50m
	0086/008760	28 mm nominal outer diameter.	50m
	0086/008761	34 mm nominal outer diameter.	25m
	0086/008762	42 mm nominal outer diameter.	25m
	0086/008763	54 mm nominal outer diameter.	25m
NRFP I H Heavy weight PA12 Low fire hazard highly resistant to solvents & oils. For flood areas. Use with NRFP AU glands. The only N Rail approved conduit for areas of Flooding or excess water			
	0086/008764	21 mm nominal outer diameter.	50m
	0086/008765	28 mm nominal outer diameter.	50m
	0086/008766	34 mm nominal outer diameter.	25m
	0086/008767	42 mm nominal outer diameter.	25m
	0086/008768	54 mm nominal outer diameter.	25m
	0086/008769	67 mm nominal outer diameter.	10m
NRFP I HR Heavy weight PA12, highly flame retardant, highly resistant to solvents & oils. For flood areas. Use with NRFP AU glands. The only N Rail approved conduit for areas of Flooding or excess water.			
	0086/008770	21 mm nominal outer diameter.	50m
	0086/008771	28 mm nominal outer diameter.	50m
	0086/008772	34 mm nominal outer diameter.	25m
	0086/008773	42 mm nominal outer diameter.	25m
	0086/008774	54 mm nominal outer diameter.	25m

Flexicon Network Rail Flexible Conduit and

	Catalogue Number	Description	Pack Qty
NYLON CONDUIT GLANDS			
NRFPAU Straight conduit fitting, external metric thread, complete with glass reinforced PA nut.			
	0086/008782	One piece, fast fit, 21mm nominal diameter straight conduit fitting, external M20 thread.	10
	0086/008783	One piece, fast fit, 28mm nominal diameter straight conduit fitting, external M25 thread.	10
	0086/008784	One piece, fast fit, 34mm nominal diameter straight conduit fitting, external M32 thread.	10
	0086/008785	One piece, fast fit, 42mm nominal diameter straight conduit fitting, external M40 thread.	2
	0086/008786	One piece, fast fit, 42mm nominal diameter straight conduit fitting, external M50 thread.	2
	0086/008787	One piece, fast fit, 54mm nominal diameter straight conduit fitting, external M50 thread.	1
	0086/008788	One piece, fast fit, 54mm nominal diameter straight conduit fitting, external M63 thread.	1
	0086/008789	Two piece fast fit, 67mm nominal diameter straight conduit fitting, external M63 thread.	1
NRFPAU 90Deg conduit fitting, external metric thread. Complete with glass reinforced PA nut.			
	0086/008795	One piece, fast fit, 21mm nominal diameter 90° elbow conduit fitting, external M20 thread.	10
	0086/008796	One piece, fast fit, 28mm nominal diameter 90° elbow conduit fitting, external M25 thread.	10
	0086/008797	One piece, fast fit, 34mm nominal diameter 90° elbow conduit fitting, external M32 thread.	10
	0086/008798	One piece, fast fit, 42mm nominal diameter 90° elbow conduit fitting, external M40 thread.	2
	0086/008799	One piece, fast fit, 42mm nominal diameter 90° elbow conduit fitting, external M50 thread.	2
	0086/008800	One piece, fast fit, 54mm nominal diameter 90° elbow conduit fitting, external M50 thread.	1
	0086/008801	One piece, fast fit, 54mm nominal diameter 90° elbow conduit fitting, external M63 thread.	1
NRFPAU 45Deg conduit fitting, external metric thread. Complete with glass reinforced PA nut.			
	0086/008790	One piece, fast fit, 21mm nominal diameter 45° elbow conduit fitting, external M20 thread.	10
	0086/008791	One piece, fast fit, 28mm nominal diameter 45° elbow conduit fitting, external M25 thread.	10
	0086/008792	One piece, fast fit, 34mm nominal diameter 45° elbow conduit fitting, external M32 thread.	10
	0086/008793	One piece, fast fit, 42mm nominal diameter 45° elbow conduit fitting, external M50 thread.	2
	0086/008794	One piece, fast fit, 54mm nominal diameter 45° elbow conduit fitting, external M50 thread.	1
Large diameter (80, 106mm) Straight & 90Deg elbow flange conduit fittings for NRFPAS & NRFPR flexible conduit.			
	0086/008802	80mm nominal diameter straight gland with an 80mm flange diameter.	1
	0086/008803	106mm nominal diameter straight gland with an 106mm flange diameter.	1
	0086/008804	80mm nominal diameter 90° elbow conduit fitting with an 80mm flange diameter.	1
	0086/008805	106mm nominal diameter 90° elbow conduit fitting with an 80mm flange diameter.	1
NRFPAUX Coupler conduit fitting, NRFPAUX To FPAUX.			
	0086/008775	Fast fit, coupler to join 21mm corrugated flexible conduits.	10
	0086/008776	Fast fit, coupler to join 28mm corrugated flexible conduits.	10
	0086/008777	Fast fit, coupler to join 34mm corrugated flexible conduits.	10
	0086/008778	Fast fit, coupler to join 42mm corrugated flexible conduits.	2
	0086/008779	Fast fit, coupler to join 54mm corrugated flexible conduits.	2
NRFPAUX-CG Straight conduit fitting with Integral Cable Strain Relief.			
	0086/008780	Non metallic flexible 21mm conduit to cable gland with 20mm male thread for 7-13mm diameter cables.	10
	0086/008781	Non metallic flexible 28mm conduit to cable gland with 21mm male thread for 9-17mm diameter cables.	10





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Glands Range Cont...




	Catalogue Number	Description	Pack Qty
FLEXICON FLEXIBLE CONDUIT CLIPS AND CLAMP			
Conduit fixing Clips with integral lid.			
	0086/008806	Nylon Conduit fixing clip for 21mm conduit, M6 fixing.	10
	0086/008807	Nylon Conduit fixing clip for 28mm conduit, M6 fixing.	10
	0086/008808	Nylon Conduit fixing clip for 34mm conduit, M6 fixing.	10
	0086/008809	Nylon Conduit fixing clip for 42mm conduit, M6 fixing.	5
	0086/008810	Nylon Conduit fixing clip for 54mm conduit, M6 fixing.	5

NRF-CLAMP non metallic heavy duty conduit clamp.			
	0086/008811	Nylon Conduit fixing clamp for 21mm conduit, M6 fixing.	10
	0086/008812	Nylon Conduit fixing clamp for 28mm conduit, M6 fixing.	10
	0086/008813	Nylon Conduit fixing clamp for 34mm conduit, M6 fixing.	5
	0086/008814	Nylon Conduit fixing clamp for 42mm conduit, M6 fixing.	5
	0086/008815	Nylon Conduit fixing clamp for 54mm conduit, M6 fixing.	2
	0086/008816	Nylon Conduit fixing clamp for 67mm conduit, M6 fixing.	2
	0086/008817	Nylon Conduit fixing clamp for 80mm conduit, M6 fixing.	1

NRREC Rubber end caps for flexible corrugated conduits.			
	0086/008824	Rubber End Cap for 28mm conduit, 3-21mm cable range.	10
	0086/008825	Rubber End Cap for 34mm conduit, 3-25mm cable range.	10
	0086/008826	Rubber End Cap for 42mm conduit, 5-34mm cable range.	10
	0086/008827	Rubber End Cap for 54mm conduit, 5-46mm cable range.	10
	0086/008828	Rubber End Cap for 67mm conduit, 12-52mm cable range.	10
	0086/008829	Rubber End Cap for 80mm conduit, 12-62mm cable range.	10

ULTRA - FPAU - End Of Line. Straight conduit fitting, combined with nylon cable gland. (NR PADS Approval Pending)			
	0050/565384	Conduit Size 28mm. 10-17mm Cable Clamp Range.	2
	0050/565385	Conduit Size 34mm. 11-21mm Cable Clamp Range.	2
	0050/565386	Conduit Size 42mm. 19-28mm Cable Clamp Range.	1
	0050/565387	Conduit Size 54mm. 27-35mm Cable Clamp Range.	1

CONDUIT CUTTER			
	0086/008830	Non Metallic Conduit cutter to 34mm diameter conduit.	1
	0086/008831	Non Metallic Conduit cutter to 67mm diameter conduit.	1



About Unipart

The Unipart Group is a leading UK manufacturer, full service logistics provider and consultant in operational excellence. Operating across a range of market sectors, including automotive, manufacturing, mobile telecoms, rail, retail and technology, Unipart offers a breadth of services to a wide range of blue chip clients internationally.

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