

Technical Data Sheet	DS023/0614
Product Description	Standard weight nylon (flame retardant PA6) corrugated flexible conduit
Product Range	FPAS - Non-Metallic Conduits

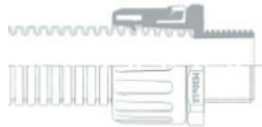
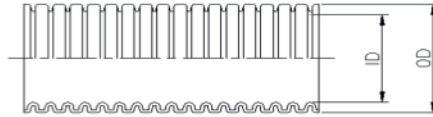
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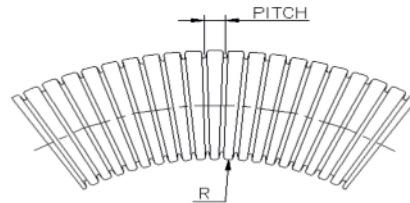
Roman Way, Coleshill
Birmingham, B46 1HG
(t) +44 (0)1675 466900
(w) www.flexicon.uk.com
(e) sales@flexicon.uk.com



Above picture illustrates Conduit complete with FPA fitting



Conduit complete with FPA fitting



Material

Nylon PA6
(Flame retardant)

Colour

Black or
Grey (RAL 7031)

Fire Performance

Highly flame retardant,
halogen, sulphur and
phosphorous free



IP Rating

IP66
with FPA fittings

IP66 IP67 IP68 IP69
with FPAX fittings

Applications

Ideal for use in both internal
and external applications,
FPAS conduit provides
excellent resistance to UV
(black only), abrasion, oil and
solvents.

Compression Strength

75kg/100mm
(21 mm size)

Pull-off (Tensile) strength

40kg FPA & FPAX fittings
25kg FLK fittings
(21mm size)

Temperature Performance

Static: -40°C to +120°C
Dynamic: -20°C to +100°C

Nominal Size	Pitch F= fine C= coarse	Part No	Dimensions and Mechanical Properties					Weight g/M
			Reel Length (M)	OD (mm)	ID (mm)	Min Bend radius R (mm)	Compression Strength kg/100mm	
10	F	FPAS10#	50	10.0	6.3	15	100	19
11	F	FPAS11#	50	11.5	8.2	20	60	22
13	F	FPAS13#	50	13.0	9.8	25	75	28
16	F	FPAS16#	50	15.8	11.8	35	60	38
18	F	FPAS18#	50	18.5	14.2	40	80	49
20	C	FPAS20#	50	20	14.8	45	80	56
21	F	FPAS21#	50	21.2	16.7	45	75	60
25	C	FPAS25#	50	25.0	19.1	50	80	80
28	F	FPAS28#	50	28.5	22.8	50	70	100
28	C	FPAS28C#	50	28.5	21.7	50	90	100
34	F	FPAS34F#	50	34.5	28.8	60	70	135
34	C	FPAS34#	50	34.5	28.1	60	90	135
42	C	FPAS42#	25	42.5	35.5	70	100	165
54	C	FPAS54#	25	54.5	47.2	80	100	235
67	C	FPAS67#	10	67.2	56.3	130	120	365

Compliance, Approvals & Accreditation;



EN 61386 Classification Available on request

Vibration and Shock resistant to EN 61373 Cat 2

UL File No. E246572

RU File No. E229161

Lloyds Register of shipping Type Approved

Russian Fire Safety Certificate No. 0642449

Typical Applications;



NB: # add B for Black or G for Grey

Errors, omissions and amendments excepted. As part of continuing product development Flexicon Ltd reserve the right to alter product specifications without prior notice. Data given is correct at time of compilation. Product specification and application data is for guidance only and does not constitute a warranty of any kind, either expressed or implied for Flexicon products or their suitability for a specific purpose. Third party approvals maybe limited to certain sizes within a product range.

Created by: Colin Legg - Marketing Manager	Approved by: Ian Gibson - Technical Director	Date: June 2014	Page Number: Page 1 of 2
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Technical Properties and Performance	
Detail	Rating
Highly flexible with excellent fatigue life	Yes
IP (Ingress Protection) rating with FPA fittings	IP66
IP (Ingress Protection) rating with FPAX Fittings	IP66+67+68+69
Temperature range-static	-40°C to +120°C
Temperature range-dynamic	-20°C to +100°C
Displays self recovery if crushed	Yes
Water and dust resistant	Yes
Abrasion resistant	Yes
High impact strength (at -25 ° C)	> 6 Joules
Vibration and Shock resistant to EN 61373 Cat 2 (TUV Report 75908286)	Yes
UV resistant (Black) - (UL Report No. 13CA50836)	Yes
UL Recognised (File No. E229161)	Yes
34,42 and 54mm UL listed and CUL approved (File No.E246572)	Yes
Lloyds Register Type Approval	Yes

Fire Performance	
Limiting Oxygen index to ISO 4589 (RAPRA Report No. 38985)	26.4%
Flame Retardancy to UL 94 (RAPRA Report No. 39933)	V2
Ignition and fume rating to NFF16-101/2 (RAPRA Report No.43386)	I4F1
Maximum smoke opacity to BS 6853 annex D8.3 (RAPRA Report No. 38985)	Ao = 0.02
Toxicity Index to BS6853 B.1 (WFRC Report No. 141180)	r = 1.55
Toxicity Index to NFX70 - 100 (WFRC Report No. 141180)	CIT = 29.93
Self extinguishing to EN61386-1 (BSI Report No. 2381/7847798)	Yes
Halogen Sulphur and Phosphorous free	Yes
Russian Fire Safety Certificate No. 0642449	Yes

Other Variants Available

FPAH

Construction: Heavy weight, flame retardant, nylon (PA6) corrugated flexible conduit. Colour black.

Typical Applications: All types of machinery and public buildings where high mechanical strength required.



FPAL

Construction: Light weight nylon (PA6) corrugated flexible conduit. Colour black or grey (RAL 7031).

Typical Applications: Machines where lower mechanical protection is required and buildings.

