

Polyamide Flexible Conduits, End Fittings & Accessories



PPS International Private Limited

(www.ppsinternational.in)



IRISTM
Certified



About Us :-

PPS International is an ISO 9001:2015 and IRIS certified Company engaged in the manufacturing of **“Polyamide Flexible Conduits, End fittings and accessories”**.

We have developed a wide range of **“Polyamide Flexible Conduits”** and its **“End Fittings”** for the many different applications like Railways, Industrial Machines, Solar Equipments, High-rise Buildings, Automobiles and many more.

Why PPS International ?

- **Best and world class export quality product with stringent quality measures.**
- **Ex-stock delivery as we keep huge inventory all the time.**
- **Consistent innovation and experienced technical team enabling continuous product improvement .**
- **Competitive pricing- oem supplies based on volumes.**
- **Reliable partner for new product development- always eager to develop new and better products in co-operation with customers and vendors.**

Features :-

- **Material :- PA 6, PPCP, HDPE, (Both FR & Non-FR Grade)**
- **Color :- Black (RAL 9005) / Grey / Multi Color**
- **Temperature Range :- - 30°C to 105°C (150°C for short time)**
- **U.V. Protected**
- **Protection Degree: IP 67 in combination with conduit glands / End fittings**
- **Flexible and Excellent Tenacity / Grip**
- **Glossy Surface**
- **Small Bending Radius**
- **High Mechanical Strength**
- **Resistant to Oil, Acid and Solvents**
- **Anti-friction**
- **Free of Halogen, Phosphorus and Cadmium (Passed RoHS)**

CERTIFICATE

awarded to

PPS International
Plot No. 32- Udyog Kendra , Ecotech-3,
201308, Greater Noida, UP
India

TÜV Rheinland (China) Ltd.

confirms, as an IRIS Certification[®] approved certification body, that the Management System of the above organization has been assessed and found to be in accordance with the

IRIS Certification[®]

Performance Assessment:2023

Certification activities:
 Design and development & Production & Service provision & EPPPS & Project management & Requirements management

Business category:
 Rolling Stock

Product scope:
 Railway network, Components

Certificate valid from: 25/06/2024 Certificate valid until: 24/06/2027*

Current date: 21/10/2024

Certificate-Register-No: 39 10 004 2105

* Providing that the subsequent surveillance audits are successful before the validity date of the previous audit.
 Certification body address: Room 301, 3F and Room 1203, 12F, Building 4, No.15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), 100176, P. R. China, 100176 Beijing, China

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Certificate of Registration

This certificate has been awarded to

PPS INTERNATIONAL

Unit-1-Plot No. 32, Udyog Kendra, Ecotech 3, Greater Noida, Uttar Pradesh, 201308, India

In recognition of the organization's Quality Management System which complies with

ISO 9001:2015

The scope of activities covered by this certificate is defined below

Please refer to the Appendix

Certificate Number 134579/A/0001/NB/En			
Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
12 March 2024	1	11 March 2027	1
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
25 October 2024	5	12 March 2024	n/a

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by MUKESH SINGHAL - On behalf of the Schemes Manager

URS Certification Limited, F. 3, Sector 4, Noida, 201301 India. www.urs-holdings.com Please contact above address to check current validity of Certificate. URS Certification Limited is a part of URS Register (URS is a member of URS Register of Systems (URS) Ltd., 20 Finsbury Park, London, N3 2PP, UK. Company Registration no. 1206888)

RAIL COACH FACTORY, KAPURTHALA

Office of
 The Principle Chief Electrical Engineer
 Date: 24.01.2023

IRIS/HSQ/ED/PTI/2019

Office address:
 M/s PPS International,
 Plot no.32, Udyog Kendra,
 Ecotech-III, Greater Noida,
 U.P - 201 308.
Email: ceo@ppsinternational.in

Works address:
 M/s PPS International,
 85, Ecotech-12, Greater Noida,
 U.P - 201 306.

Sub:- Prototype approval for Flexible Polyamide conduits with accessories as per RDSO Specification no. RDSO/PE/SPEC/AC-0138-2009 (Rev.-1).

Ref:- (i). Firm's Letter no.PPS/RCF/CONDUIT/22-23/003, dated: 01.10.2022.
 (ii). DY.CEE/D&D L.No. RCF/HSQ/ED/PTI/2019, dated: 20.10.2022.
 (iii). Firm's Letter no.PPS/RCF/CF/CONDUIT/22-23/005, dated: 31.10.2022.
 (iv). Firm's Letter No.PPS/CONDUIT/22-23/002, dated: 02.01.2023.
 (v). DY.CEE/D&D L.No. RCF/103/1603/00028677, dated: 02.01.2023.
 (vi). DY.CEE/D&D L.No. RCF/103/1603/00028697, dated: 03.01.2023.
 (vii). DY.CEE/D&D L.No. RCF/104/1401/00028731, dated: 03.01.2023.

In reference to letter at (iv), above, firm has submitted samples of flexible polyamide conduits with its End fittings and accessories alongwith set of drawings as per RDSO Specification no. RDSO/PE/SPEC/AC-0138-2009 (Rev.-1) for approval. Accordingly vide letter at ref.(v)-(vii), FAI of flexible polyamide conduits with its End fittings and accessories as per RDSO Specification no. RDSO/PE/SPEC/AC-0138-2009 (Rev.-1) was carried out at firm's premises and it is observed that the prototype samples offered are generally conforming to the requirements of the specification. The sample offered details are as under:

S.no.	Description	Size
1.	Flexible Polyamide Conduits	NW - 10, 12, 17, 23, 29, 36, 48, 56, 70 & 95
2.	End Fitting with PG-Thread	PG - 9, 11, 16, 21, 29, 36 & 48
3.	Hexagonal PG Lock Nuts (Nickel Plated Brass)	PG - 9, 11, 16, 21, 29, 36 & 48
4.	PG Thread Plug Screws	PG - 16, 21, 29, 36 & 48
5.	Tube Clamp	NW - 17, 23, 29, 36 & 48
6.	O- Ring & Gasket	PG - 9, 11, 16, 21, 29, 36 & 48

In view of above FAI clearance alongwith approval of drawings is hereby granted subject to the under given conditions:

Chief Elect. Engineer D&D
 Kapurthala

- The Supply generally shall meet the requirement of the drawing/specification.
- Notwithstanding this approval, vendor is wholly and completely responsible for quality, on line performance, reliability and life of the item supplied by him.
- Complete compliance to the conditions given in purchase order of Railways and Production units.
- All future changes in equipment, facilities and establishment at your works should be promptly communicated to CEDE/RCF/Kapurthala.
- Notwithstanding what has been stated above, this office reserve the right to cancel/withdraw/withhold the registration/approval and down-grade/de-list from RCF's List of approved Vendors at any time without any notice and without assigning any reason thereto.
- It is advised to commence bulk supplies duly inspected by M/s RITES.

This has approval of CEDE/RCF.

This has approval of competent authority.

Dy.CEE/RCF
 For Principal Chief Electrical Engineer D&D
 R.C.F./Kapurthala

- Dy.CMM/TJK/NDLS
- M/s RITES, Northern Region,
 Scope Minar Core-1, 12th Floor,
 Laxmi Nagar, Delhi India 110092



Polyamide Flexible Conduits (For Railway Application)

S.No	Size	Part No.	Inner Diameter (mm)	Outer Diameter (mm)	Standard Packing (Mtrs)
1	NW8	25.11.652	6.5	10.0	100
2	NW10	25.11.001	9.6	13.0	100
3	NW12	25.11.002	12.0	15.8	100
4	NW17	25.11.003	16.0	21.2	50
5	NW23	25.11.004	22.0	28.5	50
6	NW29	25.11.005	28.0	34.4	50
7	NW36	25.11.006	36.0	42.4	25
8	NW48	25.11.007	47.0	54.4	25
9	NW56	25.11.008	54.0	67.2	20
10	NW70	25.11.009	65.0	80.0	20
11	NW95	25.11.010	91.0	106.0	20



Polyamide Flexible Conduits (For Industrial Application)



S. No	Size	Part No.	Inner Diameter (mm)	Outer Diameter (mm)	Standard Packing (Mtrs)
1	PG7	25.11.653	6.5	10.0	100
2	PG9	25.11.012	9.6	13.0	100
3	PG11	25.11.013	12.0	15.8	50
4	PG13.5	25.11.096	14.0	18.5	50
5	PG16	25.11.015	16.0	21.2	50
6	PG21	25.11.016	22.0	28.5	50
7	PG29	25.11.017	28.0	34.4	50
8	PG36	25.11.018	36.0	42.4	25
9	PG48	25.11.019	47.0	54.4	25
10	PG56	25.11.020	54.0	67.2	20
11	PG70	25.11.053	65.0	80.0	20
12	PG95	25.11.054	91.0	106.0	20





PPCP Flexible Pipes (For Auto-Mobiles and EV Protection)

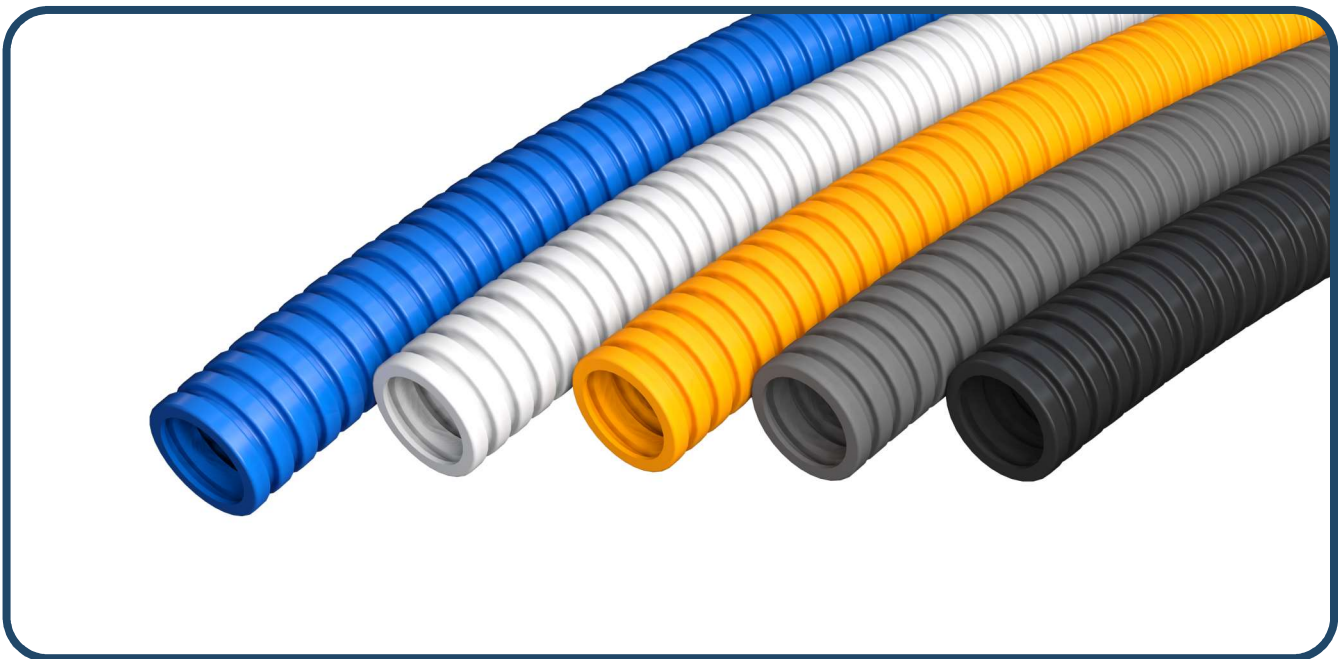
S.No	Size	Part No.	Inner Diameter (mm)	Outer Diameter (mm)	Standard Packing (Mtrs)
1	10 MM	25.11.627	6.5	10.0	100
2	12 MM	25.11.628	9.0	12.0	100
3	14 MM	25.11.629	10.5	14.0	100
4	16 MM	25.11.630	12.0	16.0	50
5	18 MM	25.11.631	14.0	18.0	50
6	20 MM	25.11.632	16.0	20.0	50
7	25 MM	25.11.633	22.0	25.0	25
8	32 MM	25.11.634	29.0	32.0	25
9	40 MM	25.11.635	36.0	40.0	20
10	50 MM	25.11.636	46.0	50.0	20
11	65 MM	25.11.637	58.0	65.0	20
12	80 MM	25.11.638	65.5	80.0	20
13	106 MM	25.11.639	91.0	106.0	10



HDPE Flexible Pipes (For Industrial & Building Application)



S.No	Size	Part No.	Inner Diameter (mm)	Outer Diameter (mm)	Standard Packing (Mtrs)
1	10 MM	25.11.088	6.5	10.0	100
2	12 MM	25.11.089	9.0	12.0	100
3	14 MM	25.11.101	10.5	14.0	100
4	16 MM	25.11.090	12.0	16.0	50
5	18 MM	25.11.103	14.0	18.0	50
6	20 MM	25.11.091	16.0	20.0	50
7	25 MM	25.11.092	22.0	25.0	25
8	32 MM	25.11.093	29.0	32.0	25
9	40 MM	25.11.094	36.0	40.0	20
10	50 MM	25.11.095	46.0	50.0	20
11	65 MM	25.11.104	58.0	65.0	20
12	80 MM	25.11.107	65.5	80.0	20
13	106 MM	25.11.110	91.0	106.0	10



PG Metal Thread End Fittings

S.No	Item Name	Part No.	Suitable for Conduit Size	Conduit Outer Diameter (mm)	
1	Straight End Fitting	PG9	25.11.501	NW10	13.0
2		PG11	25.11.502	NW12	15.8
3		PG16	25.11.504	NW17	21.2
4		PG21	25.11.505	NW23	28.5
5		PG29	25.11.507	NW29	34.4
6		PG36	25.11.508	NW36	42.4
7		PG48	25.11.509	NW48	54.4



S.No	Item Name		Part No.	Suitable for Conduit Size	Conduit Outer Diameter (mm)
1	Female/ Elbow End Fittings	90° PG 13.5	25.11.522	NW17	21.2
2		90° PG 17	25.11.523	NW17	21.2
3		90° PG 29	25.11.524	NW29	34.4
4		45° PG 29	25.11.564	NW29	34.4
5		45° PG 29	25.11.600	NW29	34.4
6		PG 29	24.11.603	NW29	34.4



Metric Thread End Fittings



S.No	Product Name		Suitable for Conduit Size	Part No.	Suitable for Conduit Outer Diameter
1	Metric Thread End Fitting	M20 X 1.5	NW12	25.11.540	15.8
2		M20 X 1.5	NW17	25.11.540	21.2
3		M25 X 1.5	NW23	25.11.546	28.5
4		M32 X 1.5	NW23	25.11.542	28.5
5		M32 X 1.5	Nw29	25.11.543	34.4
6		M40 X 1.5	NW36	25.11.554	42.4
7		M50 X 1.5	NW36	25.11.544	42.4
8		M50 X 1.5	NW48	25.11.545	54.4
9		M63 X 1.5	NW48	25.11.545	54.4



End Fitting Assembly For Flexible Conduit

S.No	Product Name		Suitable for Conduit Size	Part No.	Suitable for Conduit Outer Diameter
1	End Fitting Assembly	20 MM	NW17	25.11.660	21.2
2		25 MM	NW23	25.11.661	28.5
3		40 MM	NW36	25.11.594	42.4
4		50 MM	NW48	25.11.550	54.4



S.No	Product Name		Suitable for Conduit Size	Part No.	Conduit Outer Diameter (mm)
1	Tube Clamp	NW12	NW12	25.11.571	15.8
2		NW17	NW17	25.11.572	21.2
3		NW23	NW23	25.11.573	28.5
4		NW29	NW29	25.11.574	34.4
5		NW36	NW36	25.11.575	42.4
6		NW48	NW48	25.11.576	54.4



S.No	Product Name		Part No.	Thread Outer Dia	Marking
1	Plug Screw	PG11	25.11.512	18.50	PPS International Plug Screw PG11
2		PG16	25.11.513	22.40	PPS International Plug Screw PG16
3		PG21	25.11.514	28.20	PPS International Plug Screw PG21
4		PG29	25.11.515	36.80	PPS International Plug Screw PG29
5		PG36	25.11.516	46.80	PPS International Plug Screw PG36
6		PG48	25.11.517	59.20	PPS International Plug Screw PG48



Flange End Fittings



S.No	Product Name	Part No.	Suitable for Conduit Size	Suitable for Conduit Outer Diameter (mm)
1	Straight Flange End Fitting	25.11.590	NW70	80.0
2	90° Elbow Flange End Fitting	25.11.591	NW70	80.0



Connector End Fittings For Flexible Conduit

S.No	Product Name	Part No.	Suitable for Conduit Size	Suitable for Ridge Pipe Outer Diameter (mm)
1	Connector End Fitting NW17~20mm	25.11.556	NW17	20
2	Connector End Fitting NW23~25mm	25.11.556	NW23	25
3	Connector End Fitting NW29~32mm	25.11.553	NW29	32
4	Connector End Fitting NW36~40mm	25.11.555	NW36	40
5	Connector End Fitting NW48~50mm	25.11.551	NW48	50



S.No	Product Name	Part No.	Suitable for Conduit Size		Suitable for Conduit Size (2 Way Size)	
			Size	OD (mm)	Size	OD (mm)
1	Y- Type Connector NW12/ NW10X2	25.11.654	NW12	15.8	NW10	13
2	Y- Type Connector NW17/ NW12X2	25.11.655	NW17	21.2	NW12	15.8
3	Y- Type Connector NW23/ NW17X2	25.11.656	NW23	28.5	NW17	21.2
4	Y- Type Connector NW29/ NW23X2	25.11.657	NW29	34.4	NW23	28.5
5	Y- Type Connector NW36/ NW29X2	25.11.658	NW36	42.4	NW29	34.4
6	Y- Type Connector NW48/ NW36X2	25.11.659	NW48	54.4	NW36	42.4



Spouts- 2 Way



S.No	Product Name	Part No.	Input/ Output Conduit Size	Conduit OD (mm)
1	Spouts 2 Way NW17	25.11	NW17~NW17	21.2
2	Spouts 2 Way NW23	25.11	NW23~NW23	28.5
3	Spouts 2 Way NW29	25.11	NW29~NW29	34.4
4	Spouts 2 Way NW36	25.11	NW36~NW36	42.4



NW17



NW23



NW29



NW36

Spouts- 4Way

S.No	Product Name	Part No.	Input/ Output Conduit Size	Conduit OD (mm)
1	Spouts 4 Way NW17	25.11	NW17~NW17	21.2
2	Spouts 4 Way NW23	25.11	NW23~NW23	28.5
3	Spouts 4 Way NW29	25.11	NW29~NW29	34.4
4	Spouts 4 Way NW36	25.11	NW36~NW36	42.4



NW17



NW23



NW29



NW36

Quick Connectors (Glands)

S.No	Suitable for Conduit Size	Part No.	Suitable Conduit		Package/ Packet
			ID (mm)	OD (mm)	
1	PG9	25.11.595	9.6	13.0	200
2	PG11	25.11.596	11.5	15.5	100
3	PG16	25.11.597	16.0	21.2	100
4	PG21	25.11.598	22.0	28.5	50
5	PG29	25.11.599	28.0	34.4	50
6	PG36	25.11.600	36.0	42.4	25
7	PG48	25.11.601	47.0	54.4	25

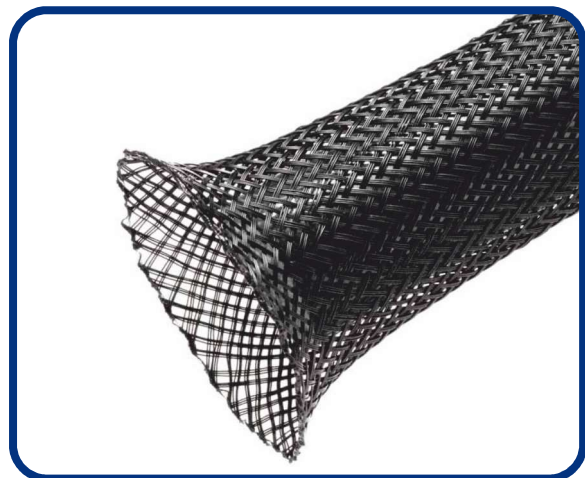


Brackets

S.No	Suitable for Conduit Size	Suitable Conduit		Package/ Packet
		ID (mm)	OD (mm)	
1	PG9	9.6	13.0	200
2	PG11	11.5	15.5	100
3	PG16	16.0	21.2	100
4	PG21	22.0	28.5	50
5	PG29	28.0	34.4	50
6	PG36	36.0	42.4	25
7	PG48	47.0	54.4	25



S.No	Product Name	Part No.	Range of Application	
			Min (mm)	Max (mm)
1	Cable Jackets NW3	25.11.701	2	5
2	Cable Jackets NW4	25.11.702	3	7
3	Cable Jackets NW6	25.11.703	5	8
4	Cable Jackets Nw8	25.11.704	7	10
5	Cable Jackets NW10	25.11.705	9	14
6	Cable Jackets NW12	25.11.706	11	16
7	Cable Jackets NW16	25.11.707	15	21
8	Cable Jackets NW20	25.11.708	20	26
9	Cable Jackets NW25	25.11.709	24	31
10	Cable Jackets NW30	25.11.710	28	38
11	Cable Jackets NW40	25.11.711	38	49





Polyamide Flexible Conduit Machine (M/C No-01)



Polyamide Flexible Conduit Machine (M/C No-02)



Polyamide Flexible Conduit Machine (M/C No-03)



Fully Automatic Injection Moulding Machine (M/C No-01)



Fully Automatic Injection Moulding Machine (M/C No-02)



VMC Machine (Total 13 Machines)



CMC Turning (Total 7 Machines)



Testing Equipments
(vacuum Oven, Melt Flow Index, Izode Charpy)



Testing Equipments
(HV tester, IR Tester, Glow Wire Tester & Tensile Machine)



Testing Equipments
(Raw Material Tester)



Testing Equipments
(Raw Material Tester)



Flexing Tester
(At Temp. 105°C)



Spread of Fire Tester

1. Railway Cabling Protection
2. Automobile Wiring Protection
3. Electric Control System
4. Marine Applications and Ship Building
5. Machine Tool Industries
6. Robotics, Mechanical
7. Solar Cable Protection





UNIT-1 (Corporate office cum Works)



UNIT-2 (Machine Shop)



UNIT-3 (Fabrication Shop)



PPS International Private Limited

(www.ppsinternational.in)

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UP- 201318

Unit 3 :-
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Revision:- 5.0
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