SYNFLEX INDUSTRIES LLP

TECHNICAL DATASHEET

PA-6 Heavy Weight Flexible Conduit Pipes - FR Grade



SYN-PA6FR-TDS-01 | Revision 01 | 27 October 2026

PA-6 heavy weight flexible conduit pipe, FR grade — fire-retardant corrugated conduit, IP68, UL94 V-0, -40°C to +105°C. NW-10 to NW-70, product codes PABC-10BV0 to PABC-70BV0. Technical data and compatible fittings.

Technical specifications

Material	Polyamide 6	
Colour	Black, Grey	
Temperature Range	-40 to +105 °C	
Lower Temp Range	-40 °C	Class 4 · IEC EN 61386
Upper Temp Range	+120 °C	Class 4 · IEC 61386
Short-Term Temperature	Up to +150 °C	
Compression Strength	750 N	Class 3 · IEC EN 61386
Tensile Strength	500 N	Class 3 · IEC EN 61386
Suspended Load Capacity	150 N	Class 3 · IEC EN 61386
Impact Strength (+23°C)	>20 J	Class 5 · IEC EN 61386
Impact Strength (-15°C)	>6 J	Class 4 · IEC EN 61386
Protection Class	IP68	IEC EN 61386
Fire Performance	V-0 / V2 / HB	UL94
Glow Wire Flammability Index	960 °C	IEC 60695-2/12
Free from Halogens	Yes	DIN 53474

Sizes and ordering

Product code	Size (NW)	ID (mm)	OD (mm)	Roll length	Bend radius
PABC-10BV0	NW-10	9.5	13	100m	20mm
PABC-12BV0	NW-12	11.2	15.8	40m	35mm
PABC-17BV0	NW-17	15.8	21.2	50m	45mm
PABC-23BV0	NW-23	22.5	28.5	50m	55mm
PABC-29BV0	NW-29	27.5	34.5	50m	65mm
PABC-36BV0	NW-36	35.5	42.4	25m	75mm
PABC-48BV0	NW-48	47	51.4	25m	90mm
PABC-70BV0	NW-70	67.5	80	10m	105mm

Ordering and documentation

Quote the product code, quantity and delivery location when ordering. Dimensions are nominal; confirm suitability under the actual installation conditions. Drawings, applicable test reports and RoHS/REACH declarations are available on request. Current details: www.synflexindustriesllp.com/product-pa6-heavy-weight-fr.html