W.

# Conduit System Introduction



Electrical Conduit provides protection to enclosed single or multi-conductors from impact, moisture, and chemical vapors. Varying quantities, sizes, and types of conductors can be pulled into a Conduit, which simplifies design and construction compared to multiple runs of cables or the expense of customized composite cables. Conduit Systems can be made waterproof.

Cable connections between fixed and moving parts are weak spots in machine & system installations. When cables are bent, individual tensioned conductors have no room for flexing. They are subjected to high and variable tension forces, particularly multi-conductor cables. To prevent conductor breakages, the use of Conduit tubing is recommended.

### Advantages:

- Individual conductors are given sufficient flexibility. This prevents tension stress.
- Connections provide security against penetration of fluids.



Operating Temperatures						
Push-In Fittings	- 4°F to 176°F (- 20°C to 80°C)					
Turn-to-Seal Fittings	- 40°F to 230°F (- 40°C to 110°C)					
Snapclic DUO Nylon	- 40°F to 212°F (- 40°C to 100°C)					
Snapclic DUO Brass	- 40°F to 212°F (- 40°C to 100°C)					
Double-Seal Fittings	- 40°F to 230°F (- 40°C to 110°C)					
Flange/Bulkhead Fittings	- 40°F to 230°F (- 40°C to 110°C)					
Standard Conduit	- 40°F to 230°F (- 40°C to 110°C)					
Standard Conduit (SM-0811-BK )	- 40°F to 140°F (- 40°C to 60°C)					
Super-Flex Conduit	- 58°F to 320°F (- 50°C to 160°C)					



# Conduit System - Corrugated Conduit (Standard & Super Flex)

This STANDARD Corrugated Conduit is suitable for static and moderate dynamic installations.

The SUPER-FLEX Conduit is made of a special plastic blend. Due to its higher flexibility, it is an ideal solution for drag chain and robotics applications. The Conduit has a UL HB 22.86 LB<sub>F</sub>/in = Crush Resistance Flammability Rating.



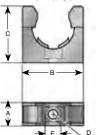
Corrugated Conduit: (Standard & Super-Flex)								
Part Numbers		Nominal	Roll	Dimensions	Fits Turn-to-Seal Fittings			
-40 °F to 230 °F (-40 °C to 110 °C)	-58 °F to 320 °F (-50 °C to 160 °C)	Conduit Length (feet)*		Inner Dia.(A) x Outer Dia.(B)	ST, ET, SM & EM			
Standard Modified Polyamide PA	SuperFlex Thermoplastic Elastomer			Inches (mm)	See page 42 for thread specs			
**SM-0811-BK	-	8	164	.33 x .45 (8.5 x 11.4)	PG 7, 1/4" NPT			
SM-1013-BK	SM-1013-HY	10	164	.39 x .51 (9.9 x 12.9)	PG 7, 3/8" NPT, PG 9, M16			
SM-1216-BK	SM-1216-HY	12	164	.48 x .62 (12.2 x 15.7)	PG 11, 3/8" NPT			
SM-1419-BK	-	14	164	.55 x .73 (14 x 18.5)	PG 13 / 13.5, M20			
SM-1721-BK	SM-1721-HY	17	164	.65 x .83 (16.6 x 21)	PG 16, 1/2" NPT			
SM-2328-BK	SM-2328-HY	23	164	.88 x 1.12 (22.4 x 28.4)	PG 21, 3/4" NPT, M25			
SM-2934-BK	SM-2934-HY	29	82	1.11 x 1.36 (28.3 x 34.5)	PG 29, 1" NPT, M32			
SM-3642-BK	SM-3642-HY	37	82	1.40 x 1.67 (35.5 x 42.3)	PG 36, 1-1/4" NPT			
SM-4854-BK	SM-4854-HY	50	82	1.87 x 2.13 (47.5 x 54.2)	PG 48, 2" NPT			
Note: CE Approval applies to SuperFlex Thermoplastic Elastomer			stomer		* <b>Note</b> : 164' = 50 m.			

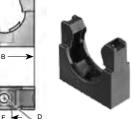
\*Note: CE Approval applies to SuperFlex Thermoplastic Elastomer and Standard Nominal Conduit Size 8 (SM-0811-BK)

\*\*Note: UR and CSA approvals apply to Standard Nominal Conduit Size 8 (SM-0811-BK). This Conduit also has UL HB.

# Conduit System - Mounting Brackets Snap-In Fittings

Mount Holds conduit securely in place. **Material:** Polyamide PA 6 • V0 Rated





Available with the following approvals:



www.sealconex.com

Mounting Brackets: Snap-In - Nylon								
Part Numbers	Fits	Dimensions						
-40 °F to 230 °F (-40 °C to 110 °C)	Nominal Conduit	A	В	С	D	E		
3	Size	Width	Length	Height	Mounting Hole ø	Mounting Hole Recess ø		
MB-09-BK	10	.49 (12.5)	1.18 (30)	.91 (23)	.16 (4)	.33 (8.5)		
MB-11-BK	12	.49 (12.5)	1.18 (30)	.91 (23)	.16 (4)	.33 (8.5)		
MB-16-BK	17	.59 (15)	1.38 (35)	1.18 (30)	.20 (5)	.41(10.5)		
MB-21-BK	23	.63 (16)	1.65 (42)	1.50 (38)	.24 (6)	.43 (11)		
MB-29-BK	29	.63 (16)	2.01 (51)	1.69 (43)	.24 (6)	.45 (11.5)		
MB-36-BK	37	.71 (18)	2.40 (61)	2.01 (51)	.24 (6)	.53 (13.5)		
MB-48-BK	50	.75 (19)	2.91 (74)	2.52 (64)	.24 (6)	.53 (13.5)		

Quick assembly thanks to single-hole fixing

Simply snaps into conduit