Duct Bank Spacer System

3/8" • 1/2" • 3/4"

General Description:

Duct bank spacers are structural components used to organize and support conduits within a duct bank—an underground network of conduits encased in concrete that protects electrical or communication cables.

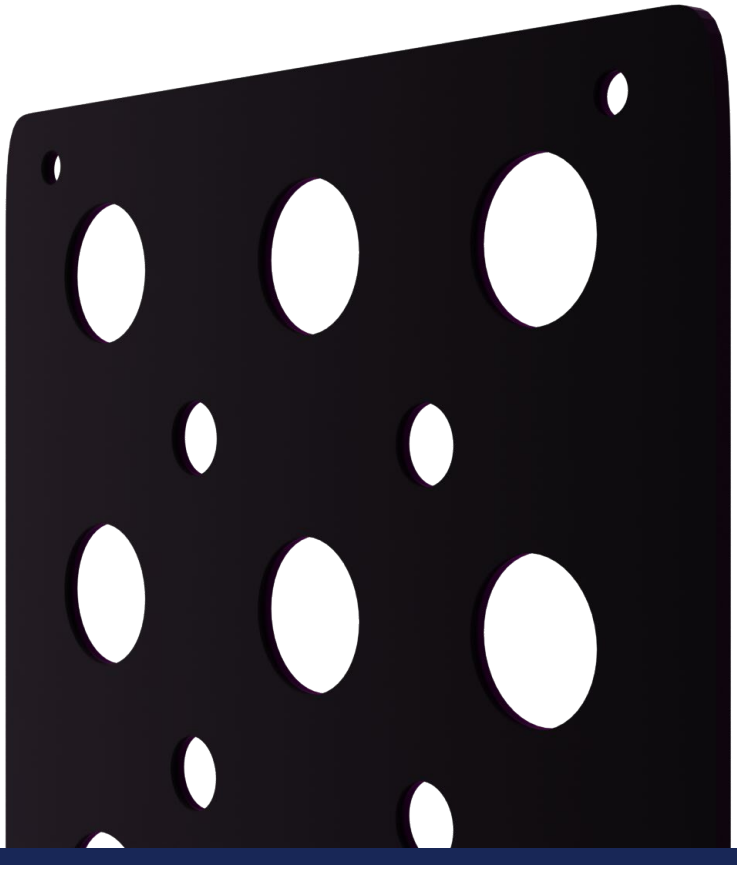
Application:

Duct bank spacers are used in underground utility installations to maintain proper alignment and separation of conduits. Their primary application is in concrete-encased duct banks, where they hold conduits in place during pouring to prevent shifting and ensure structural integrity.

They're commonly used in power and telecommunications projects, beneath roads, railways, and commercial buildings. Some spacers are also suitable for direct burial without concrete, offering protection against environmental stress. In reinforced installations, spacers often accommodate rebar to enhance durability. Overall, they streamline conduit layout, improve load distribution, and support long-term reliability.

Advantages:

- High durability and resistance to environmental degradation, including UV exposure, moisture, and temperature fluctuations.
- Exceptional mechanical properties, featuring elevated tensile strength and impact resistance under dynamic and static loads.
- Engineered for compatibility with diverse industrial and outdoor use cases.
- Cost-efficient alternative to virgin HDPE, offering comparable performance with reduced material expense.



Trade sizes Availability: 3/8" - 1/2" - 3/4"

Physical properties:

Color: Black / Dark gray

Body: Rigid

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1601 Hill Ave, West Palm Beach, FL 33407
+1-561-421-1868

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www.alva-mfg.com

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Technical data results			
General properties			
Property	**Unit**	**Value**	**Test method**
Density	g/cc	.955	ASTM D4883
Water Absortion	%	<0.10	ASTM D570
Mechanical properties			
Hardness	Shore D	64	ASTM D2240
Tensile Strength at yield	psi (27 MPa)	4000	ASTM D638
Tensile Strength at break	psi (17 MPa)	2500	ASTM D638
Elongation at Break	%	›600	ASTM D638
Flexural Modulus (Tangent Method)	psi (1450 MPa)	210,000	ASTM D790A
Flexural Strength	psi	181000	ASTM D790
Izod Impact, Notched	ft-lb/in	3.5	ASTM D256
Coefficient of Friction, Dynamic		0.20–0.29	
Environmental Stress Crack Resistance	hrs (100% Igepal)	30	ASTM D1693
Thermal properties			
Coefficient of Linear Thermal Expansion	In/in/°F x 10^-5	6	ASTM D696
Melting Point	°F	268	
Melt Index (190°C/2.16kg)	g/10 min	0.35	ASTM D1238
Maximum Service Temperature, Air	°F	180	
Heat Deflection Temperature 264 PSI	°F	165	ASTM D648
Flammability, UL94	1/8 inch	HB	
Brittleness Temperature	°C / °F	<-75° / -103°	ASTM D746
Vicat Softening Point	°C / °F	127° / 261°	ASTM D1525

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Technical data results			
Electrical properties			
Property	**Unit**	**Value**	**Test method**
Dielectric Constant	1MHz	2.4	ASTM D150
Surface Resistivity	Ω/cm	10^14	ASTM D257

Safety Precautions:

All components utilized during the manufacturing process and are not expected to generate any hazards in handling or in use under normal conditions.

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